



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

November 29, 2006

Norma Legerski  
P.O. Box 951  
Sheridan, WY 82801

RE: Modification of Legerski Custom Processing Septic System  
Sheridan County  
Permit # 06-801, Reference Permit # 96-005

Dear Mrs. Legerski:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with 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 Dennis Lamb at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3465. Thank you.

Sincerely,

Dennis Lamb  
CBM Program Manager  
WDEQ/WQD

Enclosures: General Permit  
Certificate of Completion

cc: IPS, Cheyenne  
Jack W. Fritz, WWC Engineering, Inc., 1849 Terra Avenue, Sheridan, WY 82801  
Phil Ferber, Legerski Custom Processing, P.O. Box 242, Ranchester, WY 82839  
John Billings, Sheridan County Engineering Department, 224 South Main Street, Suite B8, Sheridan, WY 82801

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STATE OF WYOMING  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
UNDERGROUND INJECTION CONTROL PERMIT ISSUED UNDER  
WYOMING WATER QUALITY RULES AND REGULATIONS  
CHAPTER 13

CLASS I INJECTION WELL

( X ) New  
( ) Modified

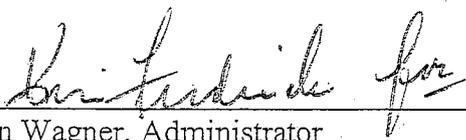
Permit Number: 06-802  
UIC Facility Number WYS-035-00015

In compliance with the Wyoming Environmental Quality act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through 301 (a)(iv), Laws 1973, Ch. 250, Section 1) and Wyoming Water Quality Rules and Regulations, Chapter 13.

Applicant: Anticline Disposal, LLC  
P.O. Box 273  
Boulder, WY 82923  
(307) 360-9226

Anticline Disposal, LLC, hereafter referred to as the Permittee, is authorized to operate the **Boulder 15-4** injection well in Section 4, Township 31 North, Range 108 West of the 6<sup>th</sup> Principal Meridian, Sublette County according to the procedures and conditions of application 06-802 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

  
\_\_\_\_\_  
John Wagner, Administrator  
Water Quality Division  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002  
(307)-777-7781

9-25-07  
Date

  
\_\_\_\_\_  
John V. Corra, Director  
Department of Environmental Quality  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002

9/25/07  
Date

JAP/cs/7-0838

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**A. Discharge Zone**

This injection well is authorized to inject into the Fort Union Formation as follows:

**Table 1 (Discharge Zone)**

Well Name	Perforated Intervals (injection start depth)	Perforated Intervals (injection end depth)
Boulder 15-4	4,074	6,244

Additional perforations may be installed within the above named intervals of the authorized formations with the prior written approval of the Water Quality Division.

The packer (set on the bottom of the tubing) shall be set within 500 feet of the top of the authorized discharge zone for all wells.

**B. Well and Area of Review**

The well(s) authorized by this permit is/are located in:

Section 4, Township 31 North, Range 108 West 6<sup>th</sup> Principal Meridian

The Area of Review is determined by calculating the cone of influence, volumetric cylinder, or using a default radius of 1,320 feet, whichever is greater.

The Area of Review around these wells are legally described as:

Township 31 North, Range 108

Section 3: NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>

Section 4: NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, NE<sup>1</sup>/<sub>4</sub>, S<sup>1</sup>/<sub>2</sub>

Section 9: N<sup>1</sup>/<sub>2</sub>

Section 10: NW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, NE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>

The Area of Review is based on the following information:

**Table 2 (Area of Review Inputs for Formation)**

Description	Inputs	Units
Boulder 15-4		
Time	10	Years
Porosity	14	Percent
Injection Rate	5,000	BPD
Thickness of Receiver	375	Feet
Area of Review	3,246	Feet
Fracture Gradient	0.705	PSI/Feet

### C. Groundwater Classification

The groundwater in the Fort Union Formation is classified as Class VI according to Wyoming Water Quality Rules and Regulations, Chapter 8. This classification was made for the following reasons:

1. Due to excessive concentration of total dissolved solids which exceed 10,000 mg/L;
2. It is located in such a way, including depth below the surface, so as to make use economically and technologically impractical;
3. This formation has produced hydrocarbons in the past. The water in this formation may be assumed to contain high levels of dissolved hydrocarbons.

### D. Authorized Operations

The permittee is authorized to inject according to the following permit limits:

**Table 3 (Permit Limits)**

Description	Permit Limits	Units
Boulder 15-4		
Maximum Injection Rate	5,000	BPD
Surface Tubing Injection Pressure (Maximum)	1,530	PSIG
Annulus Pressure (Minimum)	200	PSIG
Annulus Pressure (Maximum)	800	PSIG

The injection pressure shall be continuously monitored and recorded on a chart recorder or digitally. The permittee shall continuously monitor the pressure on the casing annulus and tubing, and shall maintain a positive pressure on the annulus.

The permittee may conduct step injection tests to determine changes in the fracture pressure as the injection continues. After acceptance by the Administrator of these tests the permittee shall limit the injection pressure to 100 psig less than the new fracture pressure as measured on the surface.

If the injection pressure and/or rate exceeds authorized limitations it is a violation of this permit and shall be reported pursuant to Section I of this permit.

The permittee is authorized to inject industrial processing wastes as follows:

#### Well workover wastes

This category includes water associated with drilling fluids used during the drilling of any oil and gas well or the water supply wells on oil and gas locations; rig wash water; well completion,

treatment and stimulation fluids; waste produced during any workover or abandonment of and oil or gas well or test hole; wastes from subsurface gas storage and retrieval; liquid hydrocarbons removed from the production stream but not from oil refining; materials ejected from a producing well during the process known as blowdown;

No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading **Well workover wastes - Authorization #1997-1**, rather than the name of the company generating the wastes.

#### **Water and other tank bottoms**

This category includes water and other tank bottoms from the storage facilities that hold crude oil, natural gas, gas condensate, or wastes which are exempt under the oil and gas exploration and production exemption to RCRA.

At least once every three (3) years, permittee shall obtain a comprehensive water analyses including all parameters except PCB's found in Wyoming Water Quality Rules and Regulations, Chapter 13, Appendix A for each source of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title **Water and other tank bottoms- Authorization #1997-2** rather than the name of the company generating these wastes.

#### **Gas plant sweetening and dehydration wastes**

This category includes gas plant sweetening wastes for sulfur removal including amines, backwash, and any wastes produced by a Bevon Stetford processing plant; gas plant dehydration wastes, and backwash.

At least once every three (3) years, permittee shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each company generating such wastes which are accepted under this provision. These analyses shall be accompanied by a complete description of the waste sampled including the plant name and location, and whether the waste is glycol, amine, or caustic waste. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly report under the title **Gas Plant Wastes – Authorization #1997-3** rather than the name of the company generating these wastes.

#### **Miscellaneous Oilfield Related Wastes**

Cooling tower blowdown wastes on gas plant or other exempt sites; packing fluids; pigging wastes from in field gathering lines, but not from interstate pipeline systems;

At least once every three (3) years, permittee shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations, for each source of waste accepted under this provision. No additional prior approval is required in order to accept these wastes. Please account for all such wastes on

your quarterly report under the title **Miscellaneous Oilfield - Authorization# 1997-4** rather than the name of the company generating these wastes.

### **Regulated Underground and Above Ground Storage Tank Wastes**

Wastes generated during the removal or maintenance of Underground or Above Ground Storage Tanks, so long as those tanks are regulated facilities under the Above Ground and Underground Storage Tank Program administered by the Water Quality Division. Under this provision, wastes including water from inside an active tank, water found inside the tank during a removal operation, groundwaters contaminated by gasoline and diesel, and water used in any form of testing operation, may be injected without analyses and without prior approval. Permittee shall obtain a written statement from the generator of any such waste stating that the waste is from a storage tank regulated by the Water Quality Division. These statements shall contain the certification statement found in your permit. Please account for all such wastes on your quarterly report under the title **Regulated Tank Wastes – Authorization #1997-5** rather than the name of the company generating these wastes.

### **Oilfield Produced Water**

This category includes all waters produced directly with the production of oil and gas and collected in the field where the oil and gas were produced. It does not include tank bottoms or water accumulated in gas processing plants, refineries, or intrastate or interstate pipe line facilities.

No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading **Oilfield Produced Water - Authorization #1997-6**, rather than the name of the company generating the wastes.

### **Sump Wastes**

Wastes known as "sump wastes" from floor drains and septic tanks at various sites. This general category includes wastes from sumps in automotive shops, gasoline stations, oilfield service industries, airports, and similar shops which perform mechanical work. This category does not include industrial process wastes from manufacturing operations or wastes from sumps in shops which do not perform mechanical work. These wastes must be characterized fully prior to disposal to insure that they are not hazardous wastes. The Water Quality Division will issue a letter of approval for each new source of waste under this category prior to permittee accepting the first lot of waste. In order to obtain such an approval letter, permittee shall submit a complete written description of the waste, including the name of the company generating the waste, the address or legal description of the location where the waste was produced, a description of the processes that produced the waste, and a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Based on this information, the Water Quality Division may issue an approval letter for the disposal of non-hazardous sump waste for a duration of no more than three (3) years.

In order to renew a previously approved source, once every three (3) years, permittee shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Please account for all such wastes on your quarterly report under the title **Miscellaneous Sump Waste – Authorization #1997-7** rather than the name of the company generating these wastes.

### **Bevill Amendment Wastes**

The Bevill Amendment exempts most wastes generated in the mining industry from regulation under RCRA. Wastes covered by the Bevill Amendment to RCRA are detailed in 40 CFR 261.4(b)(7). This section of 40 CFR 261 sets up two (2) types of mining wastes which are exempt, beneficiation wastes and processing wastes. The two terms are almost interchangeable, except that processing usually refers to a process which produces a final end product, while beneficiation produces an intermediate product which must be further refined to be used. Once every three (3) years, permittee shall obtain a comprehensive water analyses including all parameters except PCB's found in Appendix A, Chapter 13, Water Quality Division Rules and Regulations. Please account for all such wastes on your quarterly report under the title **Bevill Amendment Waste – Authorization #1997-8** rather than the name of the company generating these wastes.

### **Water well wastes**

This category of fluids includes water associated with drilling fluids used during the drilling of any water supply well, rig wash water, well completion, treatment and stimulation fluids, waste produced during any workover or abandonment of a water well, or a test hole including spent acid from acid fracturing or well acidizing jobs.

No additional prior approval is required in order to accept these wastes. Please account for all such wastes on your quarterly reports under the heading **Water well wastes - Authorization #1997-9**, rather than the name of the company generating the wastes.

### **Miscellaneous Non-hazardous wastes**

In addition to the authorizations contained in this permit, permittee may still obtain additional approvals for wastes which do not fit any of the above classifications. Any such waste must be characterized fully in order to insure that this waste is not a hazardous waste. The Water Quality Division will issue a letter of approval for each new source of waste under this category prior to permittee accepting the first lot of waste. In order to obtain such an approval letter, permittee shall submit a complete written description of the waste, including the name of the company generating the waste, the address or legal description of the location where the waste was produced, a description of the processes that produced the waste, a certification that the waste is not a listed hazardous waste, and a comprehensive water analyses for the waste. Since this is a very broad category of wastes, the exact analyses required will be based on the type of processes that generate the waste, and the type of contaminants likely to be present in the waste. Based on this information, the Water Quality Division may issue an approval letter for the disposal of non-hazardous waste for a duration of no more than three (3) years.

In order to renew a previously approved source, once every three (3) years, permittee shall obtain a comprehensive water analyses including all parameters included in the initial approval. Please account for all such wastes on your quarterly report under the title **Miscellaneous Non-Hazardous Waste – Authorization #1997-10** rather than the name of the company generating these wastes.

### **Wastes accepted under these blanket authorizations**

For each type of waste accepted under any of the blanket authorizations contained in this permit, permittee shall require that the company generating these waste provide a full written description of the wastes to support the fact that the wastes are similar to the wastes described in the authorization. Permittee shall keep records on site concerning the source of all such wastes. All wastes accepted under any authorization contained in this permit shall be neutralized to a pH of greater than 2.0 and less than 12.5.

### **Corrosion Inhibitors**

The composite injection stream may also contain a small amount of Nalco 7801 corrosion inhibitor. Nalco 7801 is an aqueous solution of alkonal amine phosphate ester and ethylene glycol. Nalco 7801 has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Betz GCP-188 deposit control additive. Betz GCP-188 deposit control additive has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Tretolite SP-200 scale inhibitor. Tretolite SP-100 deposit control additive has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Baker Petrolite SCW2600 scale inhibitor. Baker Petrolite SCW2600 deposit control additive has been shown to not meet the definition of hazardous waste under RCRA.

The composite injection stream may also contain a small amount of Tretolite NC-370 Biocide added to control bacterial growth in the injection system. Tretolite NP-370 biocide additive has been shown to not meet the definition of hazardous waste under RCRA.

Additional corrosion inhibitors may be used with the prior written approval of the Water Quality Division.

### **E. Hazardous Waste**

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any

substance defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

#### **F. Proper Operation and Maintenance**

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

The permittee shall operate and maintain all facilities and systems of treatment and control which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes mechanical integrity of the well, effective performance, adequate funding, operator staffing and training, and laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

The injection well covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapter 13, Section 11.

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

Any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

Injection into a well may not begin until construction is complete.

#### **G. Entry and Inspection**

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

#### **H. Environmental Monitoring Program for Groundwaters of the State**

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information including all calibration and maintenance records and all original strip chart recordings for continuous monitoring

instrumentation to be retained for a period of at least three (3) years after closure of the facility.

3. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The name(s) of individual(s) who performed the sampling or measurements;
  - c. The date(s) analysis were performed;
  - d. Names of individuals who performed the analyses;
  - e. The analytical techniques or methods used;
  - f. The results of such analyses.
4. No ground water monitoring program for near surface ground waters is required because of the excellent confinement of this formation.

#### **I. Requirements for Monitoring the Discharge**

The permittee shall monitor the injection pressure continuously and record readings on a strip chart recorder, a circular chart recorder, or digitally with the pressure transducer on the well or in the injection plant. A high pressure kill switch shall also be installed on the injection tubing. This device shall be set to preclude violations of the maximum injection pressure.

The permittee shall monitor the injection volume continuously and record those readings on a strip chart recorder, a circular chart recorder, or digitally with the pressure transducer on the well or in the injection plant.

The permittee shall continuously monitor the pressure of the casing/tubing annulus and shall maintain a positive pressure on the annulus. The pressure maintained shall not be less than 200 psig or more than 800 psig. The permittee shall continuously record the annulus pressure on a strip chart recorder, a circular chart recorder, or digitally with the pressure transducer on the wellhead.

The permittee shall shut-in the well(s) covered by this permit annually for a period of time long enough to observe a valid pressure falloff curve. This test shall be considered complete when the pressure curve becomes asymptotic to a straight line. This test shall be analyzed by the permittee using either the Miller Dyes Hutchinson (MDH) method or the Horner Method. In either case, graphs of this test shall be submitted to include either the MDH or Horner Plot and a Log-Log plot after injection. From these plots, the transmissivity md-ft/cp, the permeability in md, and the dimensionless skin factor shall be calculated and submitted to the Water Quality Division with the next quarterly report after the test is done.

The permittee shall monitor the quality of the injected water on an approved schedule. The Administrator may add or delete parameters to be analyzed or change reporting frequencies. The parameters identified in Table 4 shall be analyzed by the listed methods and reported quarterly.

Table 4 (Quarterly Sampling Schedule)

EPA Analytic Method	Parameter Analyzed	CAS Number	Proposed Permit Limit or UCL (mg/L)
SM2540	Total Dissolved Solids	None	*
376.1	Hydrogen Sulfide	7783-06-4	*
SM4500H+B	pH	None	>2 - <11 s.u.
206.5	Arsenic (metal)	7440-38-2	*
239	Lead (metal)	7439-92-1	*
245	Mercury (metal)	7439-97-6	*
375.2	Sulfate	None	*
420	Total Phenolic Hydrocarbons	108-95-2	*
624	1,1,1,2-Tetrachloroethane	630-20-6	*
624	1,1,1-Trichloroethane	71-55-6	*
624	1,1,2,2-Tetrachloroethane	79-34-5	*
624	1,1,2-Trichloroethane	79-00-5	*
624	1,1-Dichloroethane	75-34-3	*
624	1,1-Dichloroethene	75-35-4	*
624	1,1-Dichloropropene	563-58-6	*
624	1,2,3-Trichlorobenzene	87-61-6	*
624	1,2,3-Trichloropropane	96-18-4	*
624	1,2,4-Trichlorobenzene	120-82-1	*
624	1,2,4-Trimethylbenzene	95-63-6	*
624	1,2-Dibromo-3-chloropropane	96-12-8	*
624	1,2-Dibromoethane	106-93-4	*
624	1,2-Dichlorobenzene	95-50-1	*
624	1,2-Dichloroethane	107-06-2	*
624	1,2-Dichloropropane	78-87-5	*
624	1,3,5-Trimethylbenzene	108-67-8	*
624	1,3-Dichlorobenzene	541-73-1	*
624	1,3-Dichloropropane	142-28-9	*
624	1,4-Dichlorobenzene	106-46-7	*
624	2,2-Dichloropropane	590-20-7	*
624	2-Chloroethyl vinyl ether	110-75-8	*
624	2-Chlorotoluene	95-49-8	*
624	2-Hexanone	591-78-6	*
624	4-Chlorotoluene	106-43-4	*
624	Acetone	67-64-1	*
624	Acetonitrile	75-05-8	*
624	Acrolein	107-02-8	*
624	Acrylonitrile	107-13-1	*

624	Benzene	71-43-2	*
624	Bromobenzene	108-86-1	*
624	Bromochloromethane	74-97-5	*
624	Bromodichloromethane	75-27-4	*
624	Bromoform	75-25-2	*
624	Bromomethane	74-83-9	*
624	Carbon disulfide	75-15-0	*
624	Carbon tetrachloride	56-23-5	*
624	Chlorobenzene	108-90-7	*
624	Chlorodibromomethane	124-48-1	*
624	Chloroethane	75-00-3	*
624	Chloroform	67-66-3	*
624	Chloromethane	74-87-3	*
624	cis-1,2-Dichloroethene	156-59-2	*
624	cis-1,3-Dichloropropene	10061-01-5	*
624	Dibromomethane	74-95-3	*
624	Dichlorodifluoromethane	75-71-8	*
624	Ethyl Acetate	141-78-6	*
624	Ethylbenzene	100-41-4	*
624	Hexachlorobutadiene	87-68-3	*
624	Iodomethane	74-88-4	*
624	Isopropylbenzene	98-82-8	*
624	m+p-Xylenes	1330-20-7	*
624	Methyl ethyl ketone	78-93-3	*
624	Methyl isobutyl ketone	108-10-1	*
624	Methyl tert-butyl ether (MTBE)	1634-04-4	*
624	Methylene chloride	75-09-2	*
624	n-Butylbenzene	104-51-8	*
624	n-Propylbenzene	103-65-1	*
624	Naphthalene	91-20-3	*
624	o-Xylene	95-47-6	*
624	p-Isopropyltoluene	99-87-6	*
624	sec-Butylbenzene	135-98-8	*
624	Styrene	100-42-5	*
624	tert-Butylbenzene	98-06-6	*
624	Tetrachloroethene	127-18-4	*
624	Toluene	108-88-3	*
624	trans-1,2-Dichloroethene	156-60-5	*
624	trans-1,3-Dichloropropene	10061-02-6	*
624	Trichloroethene	79-01-6	*
624	Trichlorofluoromethane	75-69-4	*
624	Vinyl acetate	108-05-4	*
624	Vinyl chloride	75-01-4	*
624	1,2-Dichloroethene (Total)	540-59-0	*

624	BETX, Total	BETX	*
624	Xylenes, Total	1330-20-7	*

All chemical parameters listed in this permit are expressed in mg/L unless otherwise noted. pH is expressed in standard units. The permittee shall use the above listed analytical methods unless an alternate method is first approved by the Water Quality Division.

The above upper control limits (UCL) are not to be exceeded in any sample. UCLs are derived from Wyoming Water Quality Rules and Regulations, Chapter 13, Appendices A and B, and Chapter 8. The lowest UCL shall apply if there are any conflicts between rules and parameters. Exceedances of these values are a violation of this permit and shall require notification under Section K of this permit. Failure to perform and report analyses in accordance with the prescribed schedule and method is also a violation of this permit. \*The undefined permit limit or UCL's are only for exempted wastes that are injected. Any wastes that are non-exempt require analysis for hazardous waste limits and approval by the Department prior to injection.

**J. Test Procedures**

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

All required analyses shall be conducted in compliance with Wyoming Water Quality Rules and Regulations, Chapter 8, Section 7.

**K. Records and Reports**

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. The permittee shall use electronic data deliverable (EDD) reporting when required by the Administrator.
5. Monitoring results shall be reported at intervals specified in Section D and/or Section I of this permit.

6. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.
7. The permittee shall report any noncompliance which may endanger health or the environment, orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances. The report should include:
  - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
  - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.
  - c. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
8. The permittee shall report all instances of noncompliance not reported otherwise at the time monitoring reports are submitted.
9. Where the permittee becomes aware that it failed to submit any relevant acts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.
10. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The Administrator may require the owner/operator to deliver the records to the Administrator at the conclusion of the retention period.
11. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
  - a. Well construction is complete and the permittee has submitted notice of completion of construction to the Administrator, and
  - b. The Administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the Administrator of intent to inspect or otherwise

review the facility within fourteen (14) days of the well completion notice (above) in which case prior inspection or review is waived, and

c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the Administrator.

12. The quarterly report of operations for this well shall include the following information:

a. The minimum, average and maximum daily injection rate for each month of the quarter. The page showing the maximum injection rate shall also show the maximum permitted injection rate for comparison.

b. The minimum, average, and maximum daily injection pressure for each month of the quarter. The page showing the maximum injection pressure shall also show the maximum permitted injection pressure for comparison.

c. The total injection volume in barrels for each month of the quarter, the total for the quarter, the total cumulative injected to date.

d. The maximum and minimum annulus pressure for each month of the quarter.

e. Any permit exceedences within the quarter.

f. Any tests run during the quarter. This includes but is not limited to the results on any Mechanical Integrity Tests, Pressure Falloff Tests, Step Injection Tests, or any well workovers.

g. Quarterly reports are due in the Cheyenne office of the Water Quality Division no later than thirty (30) days after the end of each calendar quarter.

13. The annual report of operations on this well shall include the following additional information:

a. A graphical representation of the injection pressure and volume for the previous five year's operation. This graph shall have the dates of the year on the abscisa and the pressure and volume as the ordinate.

b. Graphical representations of the quality of the injected water overtime. These graphs shall show the injected quality for the previous five year's operation and shall be prepared on appropriate scales to show the variation.

c. Analytical results required by Section I of this permit.

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

15. The permittee shall annually pressure test the transmission pipeline between the injection well and treatment/storage facility as follows:
- a. The test will be to a maximum pressure of the maximum allowable working pressure of the pipeline or to 200 psi over the permitted maximum injection pressure, whichever is less.
  - b. The test will be conducted by closing the valve on the pipeline at the Boulder 15-4 well. The Jensen Treatment Facility positive displacement pump will be used to pump injectate into the closed pipeline to reach the test pressure. The pump will be shut-in to hold the pressure on the pipeline for 30 minutes.
  - c. The test will be considered successful if there is less than 10% pressure loss after the end of the 30 minute test period.
  - d. The pressure test results will be submitted annually no later than December 31 of each year.

#### **L. Permit Actions**

This permit is issued for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit, he shall apply to the Administrator prior to the expiration date of this permit. An expired permit continues in effect until a new permit is issued or the permit is terminated by the Administrator.

It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

1. Violation of this permit;
2. Obtaining a permit by misrepresentation of facts in the application; or
3. Failure of the casing, cement or the confining layer.

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

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

#### **M. Mechanical Integrity**

Mechanical integrity shall be maintained continuously and reviewed at least once every five (5) years. The test used to determine mechanical integrity shall be a two part test approved by the Administrator.

Part I of the mechanical integrity test shall demonstrate the absence of leaks through the packer, tubing, casing, and wellhead. Prior to injection and at least once every five (5) years, and more frequently if required by the Administrator, the casing tubing annulus of each of these wells shall be pressure tested to 2,000 psig. A successful test shall show that there has been less than 10% pressure loss after fifteen (15) minutes at 2,000 psig.

Part II of the mechanical integrity test shall demonstrate the absence of fluid movement behind the casing. Prior to commercial injection and at least once every five (5) years, and more frequently if required by the Administrator, each of these wells shall be logged using a radioactive tracer (RTS) log and a temperature log and the results and their interpretation shall be reported to the Water Quality Division along with the next quarterly report.

Other types of logs may be substituted for Part II of the mechanical integrity test with the prior written approval of the Water Quality Division.

Should any of the above tests show a lack of mechanical integrity, the Water Quality Division shall be notified by telephone within twenty-four (24) hours and with a written report within seven (7) days. In the case of a failed mechanical integrity test, the well shall be immediately shut-in. Injection shall not resume until the well has been repaired and a complete mechanical integrity test has been passed and the Water Quality Division has approved these tests.

If at any time injection occurs in any zone not within the permitted receiver, a permit violation has occurred. The operator shall prepare an estimate of the volume and quality of all wastewaters which were injected outside of the permitted receiver. In the case where any aquifer meeting the standards for Class I through IV under Wyoming Water Quality Rules and Regulations, Chapter 8, has been contaminated due to out of zone injection, the operator shall prepare and implement a plan to recover these solutions and inject them into the proper receiver.

#### **N. Plugging and Abandonment**

The permittee shall notify the Administrator at such times as the permit requires before conversion or abandonment of the well. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedure prescribed by the director for plugging and abandonment or the discontinuance of related activities:

The well plugging and abandonment procedures shall be as stringent as **Exhibit 9** of the permit application dated March 14, 2007.

In no case shall the abandonment procedure be less stringent than required by the EPA nationwide for Class I non-hazardous waste wells at the time of abandonment.

Within thirty (30) days after plugging and abandonment of any wells covered by this permit, the permittee shall submit a plugging and abandonment report, detailing the compliance with the compliance and abandonment procedures outlined in the original permit application, and describing any deviation from the original plan. The abandonment shall include surface reclamation of the well site.

#### **O. Duties of the Permittee**

The permittee shall give advance notice to the Administrator as soon as possible of any planned physical alteration or additions other than authorized operation and maintenance to the permitted facility and receive authorization prior to implementing the proposed alternation or addition.

The permittee shall furnish the Administrator within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking, or reissuing, or terminating this permit, or to determine compliance with this permit; and to furnish to the Administrator upon request, copies of records required to be kept by this permit.

Any modification which may result in a violation of a permit condition shall be reported to the Administrator, and any modification that will result in a violation of any permit conditions shall be reported to the Administrator through the submission of a new or amended permit application.

The permittee shall report all instances where he becomes aware that he failed to submit any relevant facts in the permit application, or where he submitted incorrect information in a permit application or in any report to the Administrator, and shall promptly submit such facts or information.

Monitoring results shall be reported at the intervals specified elsewhere in this permit.

#### **P. Financial Responsibility**

The permittee is required to maintain financial responsibility and resources in a form approved by the director, to close, plug and abandon the discharge operation, and reclaim the surface facilities in a manner prescribed by the director. A bond from Westchester Fire Insurance Company (#K07346529) in the amount of Two Hundred Six Thousand Two Hundred Seventy-Four Dollars (\$206,274) has been accepted as the reclamation performance bond. This bond or replacement financial instruments shall be maintained as long these wells are covered under this permit.

#### **Q. Special Permit Conditions**

In addition to the conditions required of all permits, the Administrator has established conditions as required for monitoring, schedules of compliance, and such additional conditions as are necessary to prevent the migration of fluids into underground sources of drinking water. These conditions are established in conformance with Chapter 13, Section 9(e).

#### R. Signatories Requirement

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

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

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

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

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

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

or

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

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

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

#### S. Noncompliance

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 13 and is

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

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

#### **T. Permit Transfer**

Any transfer of this permit shall be accomplished by the submission of the proper forms for permit transfer to the Administrator. Transfer of this permit must first be approved by the Administrator, and the Director, and no transfer shall be approved unless the proposed permittee agrees to bring any and all noncompliance issues into compliance with this permit.

The permittee is alone responsible for the operation of the facility covered by this permit. Sale of the facility and subsequent operation of this facility by another is a violation of this permit unless a transfer of this permit has first been accomplished.

#### **U. Property Rights**

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

#### **V. Severability**

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

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 06-803  
CHANGE OF OWNER

REFERENCE PERMIT NO. 95-235

Champ/Lodgepole Septic System (Formerly Known as Ponderosa Nursery No. 1)

This permit hereby authorizes the applicant:

Champ, LLC  
P.O. Box 127  
Albin, WY 82050

to maintain a domestic waste septic system according to the procedures and conditions of the application number 06-803. The facility is located in Section 35 T17N R60W in the county of Laramie, in the State of Wyoming.

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.

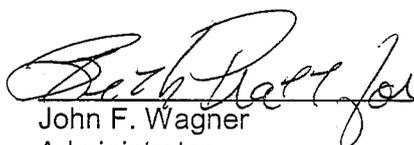
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

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.

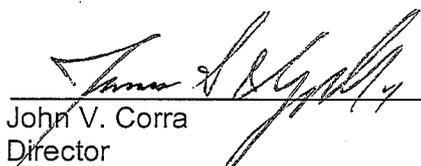
In carrying out its activities authorized by this permit, the permittee, owner and operator shall comply with all of the following permit conditions:

All conditions that were part of permit to construct 95-235 shall be continued as part of this permit transfer Application Number 06-803.

AUTHORIZED BY:



John F. Wagner  
Administrator  
Water Quality Division



John V. Corra  
Director  
Department of Environmental Quality

July 3, 1995  
Date of Issuance

LBH/bb/6-1116.PER

cc: Laramie City/County Health Department  
100 Central Avenue, Suite 261  
Cheyenne, WY 82007

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 06-804  
CHANGE OF OWNER

REFERENCE PERMIT NO. 95-313

Champ/Esperanza Septic System (Formerly Known as Ponderosa Finisher No. 1)

This permit hereby authorizes the applicant:

Champ, LLC  
P.O. Box 127  
Albin, WY 82050

to maintain a domestic waste septic system according to the procedures and conditions of the application number 06-804. The facility is located in Section 34 T17N R60W in the county of Laramie, in the State of Wyoming.

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.

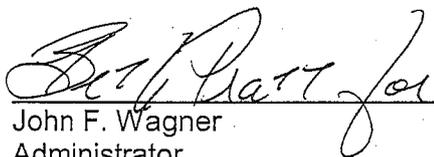
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

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:

All conditions that were part of permit to construct 95-313 shall be continued as part of this permit transfer Application Number 06-804.

AUTHORIZED BY:

  
\_\_\_\_\_  
John F. Wagner  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
John V. Corra  
Director  
Department of Environmental Quality

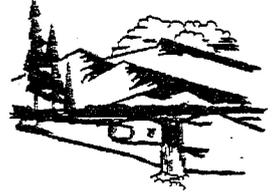
August 2, 1995  
Date of Issuance

LBH/bb/6-1117.PER

cc: Laramie City/County Health Department  
100 Central Avenue, Suite 261  
Cheyenne, WY 82007



# Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 14, 2006

John W. Mackey, Member  
Sweetwater Lodge, LLC  
1501 Federal Way, Suite 400  
Boise, ID 83705

RE: Sweetwater Lodge's Sewer & Water Lines, Permit Number: 06-805, SE ¼, Section 24, T42N, R117W, Teton County

Dear Mr. Mackey:

The above application for coverage under General Permit to install a grease interceptor, 4-inch, and 6-inch sewer lines, extension of TVWSD's existing sewage collection system, and 8-inch water line to provide potable and fire suppression water to a 75-bedroom hotel 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 James Brough at 307-332-3144.

Sincerely,

James Brough, P.E.  
Environmental Engineer  
Water Quality Division

xc: IPS, Cheyenne  
James W. Gute, P.E., Rendezvous-Engineering, P.O. Box 4858, Jackson, WY 83001

encl: General Permits For a Public Water Supply System and an Existing 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



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

CLASS V INJECTION WELL

(X) New  
( ) Modified

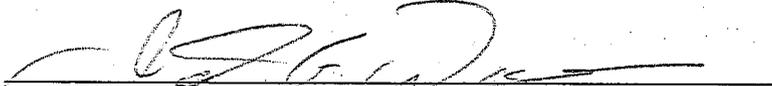
Permit Number UIC 06-806  
UIC Facility Number WYS-033-165

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

Applicant: Beneterra, LLC  
1415 N. Main Street  
Sheridan, WY 82801  
(307) 673-0607

Beneterra, LLC, hereafter referred to as the permittee, is authorized to operate the proposed Class V (5F2) SDI Project Windsor Deer Creek in Sections 23, 24, 25, and 26, Township 56 North, Range 79 West, 6th Principal Meridian, Sheridan County, according to the procedures and conditions of application UIC 06-806 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

  
\_\_\_\_\_  
John Wagner, Administrator  
Water Quality Division  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002  
(307)-777-7781

2/26/07  
Date

  
\_\_\_\_\_  
John V. Corra, Director  
Department of Environmental Quality  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002

2/27/07  
Date

WDF/rm/7-0149

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### A. Discharge Zone

The Windsor SDI Deer Creek Project is authorized to inject into the alluvial, colluvial and residual deposits adjacent to Deer Creek, an ephemeral stream in northern Sheridan County.

### B. Well and Area of Review

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

NESW ¼, Section 23, Township 56 North, Range 79 West, SESE ¼, Section 24, Township 56 North, Range 79 West, North ½, Section 25, Township 56 North, Range 79 West, NE ¼ Section 26, Township 56 North, Range 79 West.

The Area of Review around this facility is described as follows:

SENW ¼, SESW ¼, SE ¼ Section 23, Township 56 North, Range 79 West, SWSW ¼, and SESE ¼, Section 24, Township 56 North, Range 79 West, N ½ Section 25 Township 56 North, Range 79 West and NE ¼ Section 26 Township 56 North, Range 79 West

The area of review is based on the following:

Description	Inputs	Units
Permit Duration	10	Years
Porosity of receiver <sup>1</sup>	20 (varies)	Percent
Maximum injection rate	40000	Barrels/day
Thickness of receiver <sup>1</sup>	38 to 90 feet (varies)	Feet
Area of review	610	Feet

<sup>1</sup>receiver is the vadose zone and groundwater

### C. Groundwater Classification

Thirteen boreholes were advanced in the project area. Six of the boreholes were dry to a depth of 150 feet beneath the proposed facility. Monitoring wells were completed in seven of the boreholes. The groundwater beneath the proposed facility is classified as Class IVA according to Wyoming Water Quality Rules and Regulations, Chapter 8. This classification was based in part on the total dissolved solids concentrations in the monitoring wells, which ranged up to 7230 milligrams/liter. The groundwater potentiometric map demonstrates that a shallow bedrock aquifer is in hydrologic communication with a shallow alluvial/colluvial groundwater that has been classified as a Class IVA groundwater.

### D. Authorized Operations

The permittee is authorized to inject 1.68 million gallons per day of produced coalbed methane water through the Windsor SDI Deer Creek Project. The produced water originates from coal bed methane wells completed in the Oedekoven and Roland coal seams.

### E. Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined in 40 CFR 261.3 and in Wyoming Solid Waste Management Rules and Regulations, Chapter 2. Injection of any substance

defined as a hazardous waste, whether hazardous by listing or by characteristic is a violation of this permit.

#### **F. Proper Operation and Maintenance**

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

The injection well covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapter 16.

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

#### **G. Entry and Inspection**

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

#### **H. Environmental Monitoring Program for Groundwaters of the State**

##### General Requirements:

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information including all calibration and maintenance records, copies of the reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample measurement, report, or application. This period may be extended by request of the Administrator at any time.
3. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;

- b. The initials or name(s) of the individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. The time(s) analyses were initiated;
  - e. The initials or name(s) of the individual(s) who performed the analyses;
  - f. References and written procedures for the analytical techniques or methods used;
  - g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results.
4. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
  5. The permittee shall retain all records concerning the nature and composition of injected fluids until five (5) years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
  6. The permittee shall report any noncompliance which may endanger health or the environment within 24 hours from the time the operator becomes aware of the circumstances. The report should include:
    - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state;
    - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable ground waters of the state;
    - c. A written submission shall be provided within 5 days of the time the operator becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
  7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
  8. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 30 days following each schedule date.

**I. Requirements for Monitoring the Discharge.**

1. The permittee shall monitor the quantity and quality of the injected fluid on the schedule listed in Table 1 below.

**Table 1 (Injected Fluid Sampling Schedule)**

Sampling and Reporting Schedule	Parameter Analyzed	Analytical Method	Permit limit or UCL*
Quarterly 12/31; 3/31; 6/30; 9/30	Total Volume	Flowmeter	1.68 million gallons/day

Annually 12/31	Total Dissolved Solids	160.1	10,000 mg/L
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- The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in Table 2.

**Table 2 (Groundwater Sampling Schedule)**

WELL NAME OR NUMBER	SAMPLING AND REPORTING SCHEDULE (DUE DATE)	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL
All (1MWA-26-56-79, 1MWA-25-56-79, 11MWA-25-56-79, 12MWA-25-56-79, 7MWA-25-56-79, 5MWA-25-56-79, 16MWA-25-56-79)	Quarterly: (3/31; 6/30; 9/30; 12/31)	Depth to static water (ft)	Steel tape with chalk or electronic tape	None (tracking purposes: surface water protection)
All (as above)	quarterly (3/31; 6/30; 9/30; 12/31)	Total Dissolved Solids	160.1	10,000 milligrams/liter

Failure to perform and report analyses in accordance with the prescribed schedule and method is a violation of this permit.

- Water migrating from the drip irrigation system shall not re-surface into the ephemeral drainages known as Deer Creek, Indian Creek, Buffalo Creek or any of their tributaries. Deer Creek, Indian Creek, and Buffalo Creek and their tributaries proximal to the facility shall be inspected on a monthly basis for surface seeps. Any observations of water re-surfacing into these drainages from the monthly inspections or other observations shall be reported to the WDEQ immediately. Cessation of the discharge into the drainage may be required.

**Table 3 (Surface Water Sampling Schedule)**

Inspection Schedule	Reporting Schedule	Parameter Analyzed	Analytical Method	Permit limit or UCL
Monthly	Quarterly 3/31; 6/30; 9/30; 12/31	Surface seeps	Visual inspection	Presence of water

The requirements for monitoring the discharge listed in Table 1, Table 2, and Table 3 shall be submitted to the following address: WDEQ, Groundwater Program, UIC Coordinator, Herschler Building 4W, 122 West 25<sup>th</sup> Street, Cheyenne, Wyoming. A copy of the data shall also be supplied to the WDEQ, Sheridan field office at the following address: WDEQ, Groundwater Program, 1866 South Sheridan Ave., Sheridan, WY 82801.

## **J. Test Procedures**

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

## **K. Records and Reports**

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Reports of compliance or noncompliance with, and any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted no later than thirty (30) days following each schedule date. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

## **L. Permit Actions**

This permit is authorized for a period of ten (10) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. It shall not be a defense for the permittee in an enforcement action that it would be necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. The filing of a request by the permittee, or at the instigation of the Administrator, for permit modification, revocation, termination, or notification of planned changes or anticipated noncompliance shall not stay any condition of this permit.

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

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

This permit will be reviewed at least once every five (5) years, and may be reviewed more frequently. A permit may be modified at any time as may be required, including for conformity with changes in

regulations or standards which occur after the permit was issued. A permit may be modified in whole or part in order to apply more or less stringent standards; or prohibitions for toxic or other substances present in the permittees discharge as may be ordered by the Environmental Quality Council.

#### **M. Abandonment**

##### General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. The injection system covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12. Groundwater monitoring wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 11, Part G.

#### **N. Duties of the Permittee**

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

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

#### **O. Signatories Requirement**

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

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather

and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

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

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

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

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

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

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

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

#### **P. Noncompliance**

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

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

#### **Q. Permit Transfer**

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

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

#### **R. Property Rights**

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

#### **S. Severability**

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

WDF/rm/7-0149

## STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: UIC 06-806

B. Facilities Covered: The Windsor Deer Creek Subsurface Irrigation System is located in the Deer Creek and Buffalo Creek drainages in Sheridan County. This facility will inject coal bed methane water into the Deer Creek alluvial/colluvial formation at depths between 0 and 10 feet. The system is designed to inject up to a capacity of 1.68 million gallons per day. Because of the nature of this water the permit has been written to allow up to this capacity.

C. Class of Facility: 5F2 (Under Chapter 16)

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

A. Chapter 8      Yes

D. Chapter 12      No

B. Chapter 9      No

E. Chapter 13      No

C. Chapter 11      Yes

F. Chapter 16      Yes

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

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

Yes

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

No

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

NOT Applicable

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

This is an individual permit for a subsurface CBM disposal permitted under Chapter 16. A groundwater review has been completed in accordance with Section 17. Groundwater beneath this proposed facility was classified as Class IVA. Groundwater monitoring is proposed for this site to protect for Class IVA groundwater. This permit provides for a flow capacity of 1.68 million gallons per day.

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

A. The applicant has been provided with a draft permit prior to the permit being issued.

B. A Public Notice has been issued with a public notice period starting December 30, 2006 and ending on January 30, 2007. (Thirty day notice is required by Chapter 16.) This notice was published in the Sheridan Press on or before the start of the public comment period.

#### CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Don Fischer, P.G., Groundwater Pollution Control Program Principal, and completed on December 28, 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."

WDF/rm/7-0149

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

CLASS V INJECTION WELL

(X) New  
( ) Modified

Permit Number UIC 06-807  
UIC Facility Number WYS-005-00428

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

Applicant: Beneterra, LLC  
1415 N. Main Street  
Sheridan, WY 82801  
(307) 673-0607

Beneterra, LLC, hereafter referred to as the permittee, is authorized to operate the proposed Class V (5F2) Subsurface Drip Irrigation (SDI) Project known as the Storm Cat Ford Ranch Project in Sections 20, 29, 30, and 31, Township 58 North, Range 75 West, 6th Principal Meridian, Sheridan County, according to the procedures and conditions of application UIC 06-807 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

  
\_\_\_\_\_  
John Wagner, Administrator  
Water Quality Division  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002  
(307)-777-7781

5-3-7  
Date

  
\_\_\_\_\_  
John V. Corra, Director  
Department of Environmental Quality  
Herschler Building, 122 West 25<sup>th</sup> Street  
Cheyenne, WY 82002

5/6/07  
Date

UW/rm/7-0368

PERMIT UIC 06-807  
FORM UIC 2I  
Revised December 15, 2006

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## A. Discharge Zone

The Storm Cat Ford Ranch Project is authorized to inject into the alluvial deposits adjacent to the Powder River, a perennial stream in northern Campbell County.

## B. Well and Area of Review

The subsurface fluid distribution system authorized by this permit is located as follows:

North Field: Center of Section 20, Township 58 North, Range 75 West.

Middle Field: West ½ of Section 29, Township 58 North, Range 75 West, East ½ of Section 30, and NENE ¼ of Section 31, Township 58 North, Range 75 West.

South Field: SW ¼ of Section 31, Township 58 North, Range 75 West and NENE ¼ of Section 6, Township 57 North, Range 75 West.

The Area of Review around these systems is described as follows:

North Field: SWNW ¼, SENE ¼, NESW ¼, SESW ¼, and NWSE ¼ of Section 20, Township 58 North, Range 75 West.

Middle Field: SWNW ¼, SENW ¼, NEWS ¼, and the NWSW ¼ Section 29, SENW ¼, NESE ¼, SESE ¼ of Section 30, Township 58 North, Range 75 West, NENE ¼ of Section 31, Township 58 North, Range 75 West.

South Field: NESE ¼, NWSE ¼, SWSE ¼, SESE ¼ of Section 31, Township 58 North, Range 75 West NENE ¼, NWNE ¼ of Section 6 Township 57 North, Range 75 West.

The area of review is based on the following:

The area of review for this operation is limited by hydrologic boundaries (the Powder River and the limited extent of the alluvial aquifer), thus the traditional ten-year time of travel calculations are not the most appropriate method of determining the potentially affected area (area of review). A numeric groundwater model was developed to aid in understanding how this SDI system may affect the alluvial aquifer and to help in the determination of the area of review. Results from this model were used to predict the potentially impacted area and define the area of review as it is described above. A detailed description of the model is included with the application submittals. This report includes: descriptions of the conceptual model, model assumptions, boundary conditions, calibration to ambient conditions, model predictions, and sensitivity analysis of the model predictions.

The primary receiving aquifer is the Powder River alluvium. The secondary receiving aquifer, which is the bedrock in this case, is not likely to be impacted by the proposed system because the hydraulic conductivity of the alluvium is much larger than that of the bedrock. Another potential secondary "receiver", though not in the subsurface, is the Powder River itself. Model predictions indicate the SDI system can be operated at the rates permitted with no water from the SDI reaching the Powder River.

**THIS AREA INTENTIONALLY LEFT BLANK**

### **C. Groundwater Classification**

Eighteen monitor wells were installed in the project area and used to characterize the groundwater. Groundwater quality samples were collected from twelve of these wells; the remaining four did not have sufficient water to sample. Water quality analyses indicate the groundwater beneath the proposed operation is a mixture of Class III and Class IVA according to Wyoming Water Quality Rules and Regulations, Chapter 8. Ambient water quality exceeds Class I and Class II standards for TDS and Sulfate (Table 1- Chapter 8) in all of the samples. Two of the samples exceeded Class III standards for TDS as well.

### **D. Authorized Operations**

The permittee is authorized to inject 2.1 million gallons per day of produced coalbed methane water through the Storm Cat Ford Ranch Project. The produced water originates from coal bed methane wells completed in the Lower Cook, Wall and Pawnee coal seams. Water migrating from the drip irrigation system shall not enter into the Powder River.

### **E. Hazardous Waste**

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

### **F. Proper Operation and Maintenance**

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

The facilities covered by this permit shall meet all construction requirements outlined in Wyoming Water Quality Rules and Regulations, Chapter 16.

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

### **G. Entry and Inspection**

The permittee shall allow the Administrator (upon presentation of credentials and during normal working hours) to enter the premises where a regulated facility is located, or where records are kept under the conditions of this permit and inspect and photograph the discharge and related facilities, review and copy

reports and records required by this permit, collect fluid samples for analysis, measure and record water levels, and perform any other function authorized by law or regulation.

## **H. Environmental Monitoring Program for Groundwaters of the State**

### General Requirements:

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

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted.
8. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 30 days following each schedule date.

**I. Requirements for Monitoring the Discharge.**

1. The permittee shall monitor the quantity and quality of the injected fluid on the schedule listed in Table 1 below.

**Table 1 (Injected Fluid Sampling Schedule)**

Sampling and Reporting Schedule	Parameter Analyzed	Analytical Method	Permit limit or UCL*
Quarterly 12/31; 3/31; 6/30; 9/30	Total Volume	Flowmeter	2.10 million gallons/day
Annually 12/31	Total Dissolved Solids	EPA 160.1	5,000 mg/L

2. The groundwater in the receiving formation shall be sampled and the following parameters analyzed according to the schedule identified in Table 2.

**Table 2 (Groundwater Sampling Schedule)**

WELL NAME OR NUMBER	SAMPLING SCHEDULE	REPORTING SCHEDULE (DUE DATE)	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL*
All (MW-2, MW-4A, MW-5, MW-7A, MW-8A, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22)	Monthly	Quarterly (3/31; 6/30; 9/30; 12/31)	Depth to static water (ft)	Steel tape with chalk or electronic tape	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Total Dissolved Solids	EPA 160.1	5,000 milligrams/liter
MW-4A, MW-5, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sulfate	EPA 300.0	3,000 milligrams/liter

Table 2 (Groundwater Sampling Schedule) Continued

WELL NAME OR NUMBER	SAMPLING SCHEDULE	REPORTING SCHEDULE (DUE DATE)	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL*
MW-7A (Class IV GW)	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Total Dissolved Solids	EPA 160.1	10,000 milligrams/liter
MW-7A (Class IV GW)	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sulfate	EPA 300.0	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Bicarbonate	SM 2320B	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Carbonate	SM 2320B	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Chloride	EPA 300.0	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sodium	EPA 200.7	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Magnesium	EPA 200.7	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Calcium	EPA 200.7	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Electrical Conductivity	SM 2510B	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	pH	EPA 150.1	None (tracking purposes: surface water protection)
MW-4A, MW-5, MW-7A, MW-8A, MW-18, MW-19	Quarterly	Quarterly (3/31; 6/30; 9/30; 12/31)	Sodium Adsorption Ratio	Calculation	None (tracking purposes: surface water protection)

Failure to perform and report analyses in accordance with the prescribed schedule and method is a violation of this permit.

**Table 3 (Surface Water Sampling Schedule)**

SURFACE WATER STATION NAME OR NUMBER	SAMPLING SCHEDULE	REPORTING SCHEDULE (DUE DATE)	PARAMETER ANALYZED	ANALYTICAL METHOD	PERMIT LIMIT or UCL*
SW-1, SW-2, SW-3, SW-4, Section J-J', Section H-H', Section F-F', Section D-D, adjacent to MW-18	Monthly	Quarterly 3/31; 6/30; 9/30; 12/31	Surface water elevation	Survey or Staff Gage	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Flow	USGS	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Total Dissolved Solids	EPA 160.1	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Sulfate	EPA 300.0	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Alkalinity as Bicarbonate	SM 2320B	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Alkalinity as Carbonate	SM 2320B	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Chloride	EPA 300.0	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Sodium	EPA 200.7	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Magnesium	EPA 200.7	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Calcium	EPA 200.7	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Electrical Conductivity	SM 2510B	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	Sodium Adsorption Ratio	Calculation	None (tracking purposes: surface water protection)
SW-1, SW-2, SW-3, SW-4	Quarterly	Quarterly 3/31; 6/30; 9/30; 12/31	pH	EPA 150.1	None (tracking purposes: surface water protection)

All chemical parameters listed in this permit are expressed in mg/L unless otherwise noted. pH is expressed in standard units. The permittee shall use the above listed analytical methods unless an alternate method is first approved by the Water Quality Division.

\* The above upper control limits (UCL) are not to be exceeded in any sample. UCLs are derived from Wyoming Water Quality Rules and Regulations, Chapter 8. The lowest UCL shall apply if there are any conflicts between rules and parameters. Exceedances of these values are a violation of this permit and shall require notification under Section K of this permit. Failure to perform and report analyses in accordance with the prescribed schedule and method is also a violation of this permit.

The requirements for monitoring the discharge listed in Table 1, Table 2, and Table 3 shall be submitted to the following address: WDEQ, Groundwater Program, UIC Coordinator, Herschler Building 4W, 122 West 25<sup>th</sup> Street, Cheyenne, Wyoming. A copy of the data shall also be supplied to the WDEQ, Sheridan field office at the following address: WDEQ, Groundwater Program, 1866 South Sheridan Ave., Sheridan, WY 82801.

#### **J. Test Procedures**

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

#### **K. Records and Reports**

The permittee shall furnish to the Administrator within a specified time any information which the Administrator may request relating to the operation of the facility, including copies of records required to be kept by this permit. The permittee shall retain copies of all records and reports required by this permit for a period of three (3) years following permanent well abandonment. After that time, those records shall be delivered to the Administrator for disposal or archive at his discretion. Reports of compliance or noncompliance with, and any progress reports on, interim and final requirements contained in any compliance schedule shall be submitted no later than thirty (30) days following each schedule date. Confirmed noncompliance resulting in the migration of injected fluid into any zone outside the permitted receiver shall be reported to the Administrator within twenty-four (24) hours, and a written submission (via certified mail) shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written submission shall contain: a description of the noncompliance; the period of noncompliance, including exact dates and times, and if the noncompliance has not been controlled, the anticipated time it is expected to continue; and a list of the steps taken or planned to reduce, eliminate, and prevent the recurrence of the noncompliance. Confirmed noncompliance not already reported under this section shall be reported at the time monitoring reports are submitted. The reports shall contain the same information as required by the paragraph above. The permittee shall notify the Administrator thirty (30) days in advance of any planned alteration, conversion, or abandonment of the well covered by this permit.

#### **L. Permit Actions**

This permit is authorized for a period of five (5) years. If the permittee wishes to continue injection after the expiration date of this permit he shall apply to the Administrator and obtain a new permit. It shall not

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

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

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

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

#### **M. Abandonment**

General Requirements:

1. The permittee shall notify the administrator at least thirty (30) days prior to abandonment of the facility.
2. An abandonment report, detailing the compliance with abandonment procedures outlined in the original application for coverage under this permit, or describing any deviations from the original plan, shall be submitted as soon as practicable after abandonment. The abandonment shall include reclamation of the well site.
3. The injection systems covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 16, Section 12. Groundwater monitoring wells covered by this permit shall be abandoned in accordance with Wyoming Water Quality Rules and Regulations, Chapter 11, Part G.

#### **N. Duties of the Permittee**

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

permit application or in any report to the Administrator, and shall promptly submit such facts or information.

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

### **O. Signatories Requirement**

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

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

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

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

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

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

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

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

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

### **P. Noncompliance**

The permittee shall comply with all conditions of the permit. Any permit noncompliance constitutes a violation of Wyoming Water Quality Rules and Regulations, Chapter 16 and is grounds for enforcement action, permit termination, revocation, or modification. Conformed noncompliance resulting in an excursion shall be reported to the Administrator orally within twenty-four (24) hours, and a written

submission shall be provided within five (5) days of the time the permittee becomes aware of the excursion. The written report shall contain the sections specified in Section K of this permit. Any permit noncompliance constitutes a violation of this permit.

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

#### **Q. Permit Transfer**

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

#### **R. Property Rights**

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

#### **S. Severability**

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

## STATEMENT OF BASIS FOR A UIC PERMIT

I. General information.

A. Permit Number: UIC 06-807

B. Facilities Covered: The Beneterra, LLC., Storm Cat - Ford Ranch CBM Project (subsurface irrigation system) is located on the Powder River alluvium in northern Campbell County, Wyoming. This facility will inject produced coal bed methane water into the Quaternary alluvial deposits at depths up to 10 feet. The system is designed to inject up to a capacity of 2.1 million gallons per day. Because of the nature of this water, the permit has been written to allow up to this capacity.

C. Class of Facility: 5F2 (Under Chapter 16)

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

A. Chapter 3      Yes

B. Chapter 8      Yes

C. Chapter 9      No

D. Chapter 11     Yes

E. Chapter 12     No

F. Chapter 13     No

G. Chapter 16     Yes

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

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

Yes

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

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the

regulations and briefly summarize the regulation.)

NOT Applicable

V. Application requires review to determine groundwater impacts in accordance with Wyoming Water Quality Rules and Regulations Chapters 8 and 16. Groundwater beneath this proposed facility was classified as a mixture of Class III and IV. Groundwater monitoring is proposed for this site to protect for Class III and Class IV groundwater. This permit provides for a flow capacity of 2.1 million gallons per day.

VI. Documentation of Statement of Basis.

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

VII. Applicant and Public Participation

A. The applicant has been provided with a draft permit prior to the permit being issued.

B. A Public Notice has been issued with a public notice period starting March 21, 2007 and ending on April 21, 2007. (Thirty day notice is required by Chapter 16.) This notice was published in the Gillette News Record on or before the start of the public comment period.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 5, Chapter 16, Wyoming Water Quality Rules and Regulations. This review was performed by Ursula Williams, P.G # 1503, Groundwater Program, North District Senior Analyst, and completed on March 5, 2007. 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."

UW/rm/7-0368



The State  
of Wyoming



## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

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### NOTIFICATION OF COVERAGE

November 30, 2006

Wade Vrana  
P.O. Box 234  
Upton, WY 82730

RE: Vrana Temporary Holding Tank  
Permit # 06-808

Dear Mr. Vrana:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

Additionally, the following project specific conditions also apply:

- A. Limitation of Use – This permit expires within six months of issue or until public sewer service is available for the property, whichever occurs first. If use of the temporary holding tank is required beyond the limit of the permit, notify WDEQ 30 days prior to permit expiration.

Page 1 of 2



If you have any questions please contact me at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3465. Thank you.

Sincerely,



Kim J. Medina  
Senior Environmental Analyst  
WDEQ/WQD

Enclosures: General Permit

cc: IPS, Cheyenne

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

PERMIT NO. 06-809

Kingwood I POD: Iberlin 33-5-4676, Iberlin 14-5-4676, Iberlin 34-6-4676 and Iberlin 12-8-4676

This permit hereby authorizes the applicant:

Williams Production RMT Company  
Attn.: Mr. Eric Sandberg  
300 Works Avenue  
Gillette, WY 82716

to have installed four compliance monitoring wells according to the procedures and conditions of the application number 06-809. The facilities are proximal to coalbed methane produced water impoundments located in Township 46N, Range 76W, Sections 5, 6, and 8 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 3: 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 3: 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 3: 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 downgradient wells MW33-5-4676, MW14-5-4676, MW34-6-4676, MW12-8-4676,
- Reporting results of quarterly monitoring and sampling need to be at the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **July 15, 2007**.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

#### Impoundment Iberlin 33-5-4676

Parameter	MW33-5-4676 Background Value (mg/L) (05/03/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1970	≥ 2400	3000
Total Dissolved Solids (TDS)	3580	≥ 4000	5000
pH	8.0	≤ 6.5	6.5 – 8.5 (s.u)

#### Impoundment Iberlin 14-5-4676

Parameter	MW14-5-4676 Background Value (mg/L) (05/03/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1810	≥ 2400	3000
Total Dissolved Solids (TDS)	3280	≥ 4000	5000
pH	7.9	≤ 6.5	6.5 – 8.5 (s.u)

**Impoundment Iberlin 34-6-4676**

Parameter	MW34-6-4676 Background Value (mg/L) (05/03/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	815	≥ 2400	3000
Total Dissolved Solids (TDS)	1300	≥ 4000	5000
pH	8.1	≤ 6.5	6.5 – 8.5 (s.u)

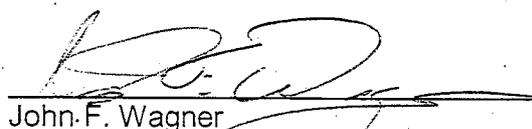
**Impoundment Iberlin 12-8-4676**

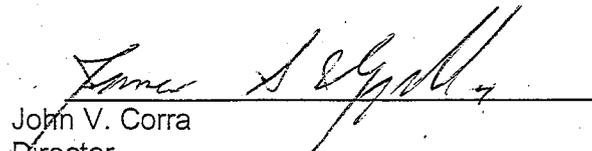
Parameter	MW12-8-4676 Background Value (mg/L) (05/04/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	961	≥ 2400	3000
Total Dissolved Solids (TDS)	1380	≥ 4000	5000
pH	7.9	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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 spreadsheet "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](mailto: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.

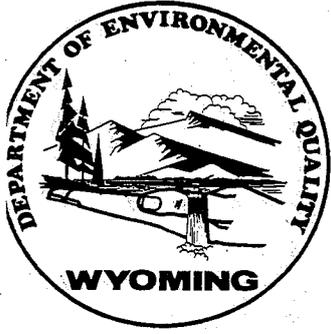
AUTHORIZED BY:

  
 John F. Wagner  
 Administrator  
 Water Quality Division

  
 John V. Corra  
 Director  
 Department of Environmental Quality

4-24-07  
 Date of Issuance

AWV/rm/7-0332



**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: 06-809

SITE (POD) NAME:       Kingwood I POD

APPLICANT:           Williams Production RMT Company  
                          Attn: Eric Sandberg  
                          300 Works Avenue  
                          Gillette, WY 82716

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

LOCATION:              Drainage: Unnamed tributaries to Pumpkin Creek,  
                          Johnson County  
                          T46N, R76W; Sections 5, 6, & 8

WYPDES No:           Discharge Permits #WY0054593

DATE ON REPORT:     February 9, 2007

REVIEWING OFFICIAL:   Pete Vogel, North District Groundwater Sen. Analyst

DATE OF THIS REVIEW:   April 18, 2007

ACTION:              Compliance Monitoring Plan authorized for Kingwood POD I pursuant to  
                          conditions on permit # 06-809

## COMMENTS: GROUNDWATER SECTION

### 1.0 SITE SUMMARY:

#### 1.1 Site Description.

Watershed Name: Unnamed tributaries to Pumpkin Creek, which drain northwest into the Powder River.

Groundwater Classification:

Class 1 (domestic) \_\_\_\_\_  
Class 2 (agricultural) \_\_\_\_\_  
Class 3 (livestock) 4

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality at four impoundments meets Water Quality Rules and Regulations Chapter 8 Class III standards (Table 1- Chapter 8) as follows:

Monitor well MW33-5-4676 demonstrates near water table conditions exist at impoundment Iberlin 33-5-4676. Groundwater from this well exceeds Class I and II standards for both Sulfate and Total Dissolved Solids (TDS) with concentrations of 1970 mg/L and 3590 mg/L respectively.

Monitor well MW14-5-4676 demonstrates water table conditions exist at impoundment Iberlin 14-5-4676. Groundwater from this well exceeds Class I and II standards for both Sulfate and Total Dissolved Solids (TDS) with concentrations of 1810 mg/L and 3280 mg/L respectively.

Monitor well MW34-6-4676 was discussed in a report by WWC Engineering dated 06/12/2006. Department of Environmental Quality personnel agreed that additional wells were not required based on the fact that water table conditions appear to be present and that this well is topographically lower than impoundment Iberlin 34-6-4676. Groundwater from this well exceeds Class I and II standards for Sulfate with a concentration of 815 mg/L. Concentration of Total Dissolved Solids (TDS) in groundwater from this well is 1300 mg/L and exceeds Class I standards.

Monitor well MW12-8-4676 is a down gradient well to impoundment Iberlin 12-8-4676. Groundwater from this well exceeds Class I and II standards for both Sulfate and Total Dissolved Solids (TDS) with concentrations of 961 mg/L and 1380 mg/L respectively.

## Names of Impoundment covered under Permit 06-809

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Township	Range
Iberlin 33-5-4676	19.9	NWSE	5	46N	76W
Iberlin 14-5-4676	19.7	SWSW	5	46N	76W
Iberlin 34-6-4676	31.7	SWSE	6	46N	76W
Iberlin 12-8-4676	19.0	SWNW	8	46N	76W

### 1.2 Hydrogeology and Review:

The impoundments will be located on small unnamed tributaries to Pumpkin Creek which are deeply incised and actively down cutting.

Groundwater in the Kingwood POD is confined to semi-confined sandstone aquifers. A lignite coal stringer that serves as a stratigraphic marker may contribute to the groundwater flow. The sandstone range in thicknesses from 32 to 84.5 feet and are from 1.5 to approximately 80 feet below ground surface. The water producing sandstone units show reasonably good correlation between wells MW33-5-4676, MW12-5-4676 and MW34-6-4676 while water from MW14-5-4676 appears to be from a stratigraphically higher sandstone unit. Regardless, it appears that hydraulic connectivity is maintained throughout the study area.

Groundwater gradient is to the north into Pumpkin Creek at impoundment 12-8-4676 (Section 8) and is in water table or near water table conditions around the impoundments in Sections 5 and 6 (33-5-4676, 14-5-4676 and 34-6-4676). Static water elevations at the time of sampling were:

Impoundment Name	Static Water Level	Static Water Elevation
Iberlin 33-5-4676	76.01	4394.51
Iberlin 14-5-4676	50.69	4373.22
Iberlin 34-6-4676	44.29	4359.21
Iberlin 12-8-4676	57.70	4394.51

Surface alluvium ranges from 1.5 to 33 feet thick. No alluvial water is noted and the monitoring wells seem to be appropriately located and installed to document any groundwater changes from produced CBM operations. The monitoring wells appear properly drilled, installed, developed and sampled.

Very low field turbidity measurements are noted with the exception of MW 12-8-4676 which had a reading of 82.8 NTU. Dissolved metals were analyzed in 12-8-4676 while total metals were analyzed in the other monitoring wells.

Groundwater chemistry is consistent with other wells as noted above. Two stock wells are in the immediate area. Well P22930P in the SESE Section 6 is 285 feet deep according to the State Engineers Office and the 450 foot deep artesian well P22934P in the NENW Section 8. Potential risk to these wells is unlikely.

**2.0 MONITORING AND REPORTING REQUIREMENTS**

Groundwater monitoring at the impoundment 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 downgradient wells MW33-5-4676, MW14-5-4676, MW 12-8-4676, and MW34-6-4676.
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by July 15, 2007.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Impoundment 33-5-4676**

Parameter	MW33-5-4676 Background Value (mg/L) (5/3/2006)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1970	≥ 2400	3000
Total Dissolved Solids (TDS)	3590	≥ 4000	5000
<i>pH</i>	<i>8.00</i>	<i>≤ 6.5</i>	<i>6.5 – 8.5 (s.u)</i>

**Impoundment 14-5-4676**

Parameter	MW14-5-4676 Background Value (mg/L) (5/3/2006)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	1810	≥ 2400	3000
Total Dissolved Solids (TDS)	3280	≥ 4000	5000
<i>pH</i>	<i>7.90</i>	<i>≤ 6.5</i>	<i>6.5 – 8.5 (s.u)</i>

**Impoundment 12-8-4676**

Parameter	MW12-8-4676 Background Value (mg/L) (5/4/2006)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	961	≥ 2400	3000
Total Dissolved Solids (TDS)	1380	≥ 4000	5000
<b>pH</b>	<b>7.90</b>	<b>≤ 6.5</b>	<b>6.5 – 8.5 (s.u)</b>

#### Impoundment 34-6-4676

Parameter	MW34-6-4676 Background Value (mg/L) (5/3/2006)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	815	≥ 2400	3000
Total Dissolved Solids (TDS)	1300	≥ 4000	5000
<b>pH</b>	<b>8.10</b>	<b>≤ 6.5</b>	<b>6.5 – 8.5 (s.u)</b>

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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.

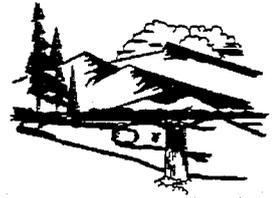
The analytical results for each sampling event, along with impoundment and monitor well location information must be submitted in the Excel spread sheet "Compliance Monitoring Data Reporting", which can be found on the WDEQ website at the following address: (<http://deq.state.wy.us/wqd/groundwater/pollution.asp>). These data shall be submitted electronically on the due dates established above to the following department address: [cbmgroundwater@state.wy.us](mailto: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**

**AWV/rm/7-0332**



# 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

February 23, 2007

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

RE: K&P Subdivision, Sweetwater County, and WDEQ Application #06-811RR

Dear Mr. Chairman:

The Wyoming Department of Environmental Quality (WDEQ) has completed the review of the above referenced subdivision pursuant to W.S. 18-5-306. The WDEQ has an **'Non - Adverse'** recommendation on this proposed subdivision. Our recommendation regarding the feasibility of the proposed water and sewage systems pursuant to the requirements of W.S. 18-5-306 (c) is based on the following findings:

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

WDEQ has reviewed the suitability of the subdivision soils for the use of septic systems and finds that the successful design and construction of septic system will require the services of a Professional Engineer. WDEQ's **'Non-Adverse'** recommendation is therefore based on the requirement that each septic system be designed and located by a Professional Engineer licensed with the State of Wyoming. The following language, or similar, language needs to be added to the plat and/or all offers, solicitations, advertisements, contacts, and agreements relating to the subdivision, advising potential buyers of the Wyoming Department of Environmental Quality's requirements for the construction of septic systems:

It is the Individual lot owners responsibility to have a Professional Engineer Licensed with the State of Wyoming, to obtain a Chapter 3 Permit to Construct, from the Wyoming Department of Environmental, Water Quality Division to authorize the construction of a septic system with leach field. Lot owners must submit the permit application to the Southwest District Engineer, Water Quality Division, 510 Meadowview Drive, Lander, WY 82520.

The proposed individual sewage disposal systems are to be enhanced on-site wastewater treatment systems for all lots. Each small enhanced wastewater treatment system must continually achieving the following minimum treatment standards as required by Chapter 23, Section 7(d)(viii)(C) of the Wyoming Water Quality Rules and Regulations at a depth of 4 feet above the seasonally high groundwater:

- Fecal Coliform: < 800 colonies/100mL (maximum 30 day geometric mean)
- Total Kjeldahl Nitrogen: < 25mg/L (maximum 30 day average)

If the proposed individual sewage disposal system exceeds 2000 gallons per day then the system will be required to be permitted under the Chapter 16 Underground Injection Control Programs Water Quality Rules and Regulations.



Chairman  
Sweetwater County Board of Commissioners  
February 23, 2007

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

The proposed water system is an extension of the City of Rock Springs water system (public water system number WY5601182). The WDEQ finds the proposed water system to be adequate for this 3-lot subdivision. The water system, is regulated by the Water Quality Division of the Wyoming Department of Environmental Quality and the United States Environmental Protection Agency. It is the responsibility of the subdivider to apply to The Wyoming Department of Environmental Quality Water Quality Division for a Chapter 3 Permit to Construct before starting construction on the water distribution system.

**Conclusion(s):**

The department has an 'Non - Adverse' recommendation on this proposed subdivision.

**Disclaimer**

Nothing in WDEQ's recommendations or comments regarding the subdivider's proposal shall be construed to relieve the subdivider of their obligation to obtain any permits or additional approval from any local state or federal agencies/entities as required by law, rules and regulations, or ordinance. Nothing in these recommendations commits the WDEQ or the delegated county to the issuance of required permits for construction, operation, or modification of water supply and/or wastewater systems. It is the duty of the subdivider/developer to comply with all applicable federal, state and local requirements.

Please do not hesitate to contact me at (307) 332-3144 if you have any questions on the recommendations or need any assistance on how to proceed with this application.

Sincerely,



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

xc:

Mark Kot, Sweetwater County Planning & Zoning, 80 West Flaming Gorge Way, Green River, Wyoming 82935

K&P Enterprise, LLC, 343 Gale Street #2, Rock Springs, WY 82901

Randy Hansen, P.E., JFC Engineers and Surveyors, 1515 Ninth Street, Suite A, Rock Springs, WY 82901

IPS-Cheyenne

chron & file(3)



# 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

December 8, 2006

Richard L. Frankovic, Owner  
Fresca, LLC.  
P.O. Box 611  
Riverton, WY 82501

RE: Country Club Village's (Lot 118 & First Addition) Sewer & Water Lines, Permit Number: 06-812, Sections 31 & 32, T1N, R4E, Fremont County

Dear Mr. Frankovic:

The above application for coverage under General Permit to install about 400 linear feet of 8-inch sewer line and appurtenances, extension of an existing sewage collection system, and about 750 linear feet of 8-inch water line, extension of a public water supply distribution system, has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Section 9; and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

You are authorized to construct, the 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 James Brough at 307-332-3144.

Sincerely,

James Brough, P.E.  
Environmental Engineer  
Water Quality Division

xc: IPS, Cheyenne  
Terry Zenk, P.E., Apex Engineering, Inc., P.O. Box 1751, Riverton, WY 82501  
Bill Urbigkit, City of Riverton, 816 North Federal Blvd., Riverton, WY 82501

encl: General Permits For a Public Water Supply System and an Existing 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

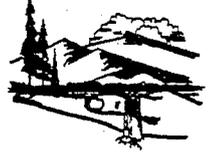
SOLID & HAZARDOUS WASTE  
(307) 332-6924  
FAX 332-7726

WATER QUALITY  
(307) 332-3144  
FAX 332-3183





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

February 21, 2007

Town of Pine Haven  
24 Waters Drive  
Pine Haven, WY 82721

RE: Robert Suchor Sewer Project, WDEQ No. 06-813

Dear Sirs:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems in accordance with Chapter 3 and 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(ies) 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.

Additionally, the following project specific conditions also apply:

- A. Minimum size for sanitary sewer service lines should be 6".
- B. Commercial developments generating wastewater other than domestic waste may require pretreatment of the wastewater prior to discharging to the sanitary sewer system.

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

Sincerely,

Karen L. Farley, P.E.  
Northeast District Supervisor  
Water Quality Division

Enclosures: General Permit, Permit Application, Certificate of Completion

cc: Corky Stetson, P.E., Stetson Engineering, Inc., P.O. box 457, Gillette, WY 82717  
WDEQ File  
IPS, Cheyenne



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

PERMIT NO. 06-814

Wormwood POD: Phase II

This permit hereby authorizes the applicant:

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

to have installed two compliance monitoring wells according to the procedures and conditions of the application number 06-814. The facilities are proximal to the coalbed methane produced water impoundments located in Township 46N, Range 76W, Sections 2, and 3 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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

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

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

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

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

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit

does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

1 of 3: 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 3: 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 3: 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 downgradient wells: MW43-3C2, and MW44-3C1.
- Water Quality results for additional samples from these wells will be submitted to the WDEQ/LQD prior to discharging to these reservoirs.
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **April 15, 2007**.
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Impoundment Iberlin 43-3-4676**

Parameter	Iberlin 43-3-4676 Background Value (mg/L) (05/03/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	0.013	≥ 0.04	0.05
Sulfate	335	≥ 2400	3000
Total Dissolved Solids (TDS)	680	≥ 4000	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

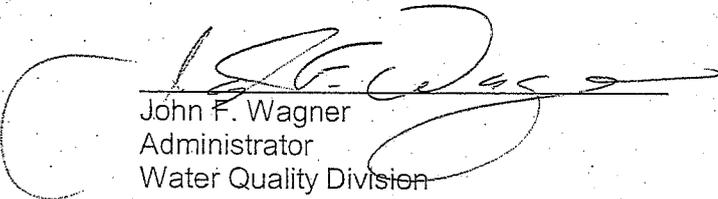
**Impoundment Iberlin 44-3-4676**

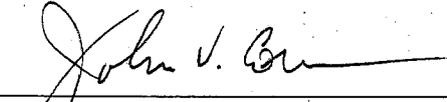
Parameter	Iberlin 44-3-4676 Background Value (mg/L) (03/02/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	392	≥ 2400	3000
Total Dissolved Solids (TDS)	690	≥ 4000	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. These values were based on analyses from the wells indicated in the table which are not the downgradient monitor wells. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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.

AUTHORIZED BY:

  
John F. Wagner  
Administrator  
Water Quality Division

  
John V. Corra  
Director  
Department of Environmental Quality

2/15/07  
Date of Issuance

UW/rm/7-0131



**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:** 06-814

**SITE (POD) NAME:** Wormwood POD: Phase II

**APPLICANT:** Williams Production Company RMT  
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 tributaries to Pumpkin Creek,  
tributary to Powder River  
County : Campbell  
Township 46 North; Range 76 West

**DATE ON REPORT:** November 16, 2006

**REVIEWING OFFICIAL:** Ursula Williams, North District Groundwater Sen. Analyst

**DATE OF THIS REVIEW:** December 13, 2006

**ACTION:** Compliance Monitoring Plan authorized for Wormwood POD: Phase II  
pursuant to conditions on permit # 06-814

COMMENTS: GROUNDWATER SECTION

1.0 SITE SUMMARY:

1.1 Site Description.

Watershed Name: unnamed tributaries to Pumpkin Creek, tributary to Powder River

Groundwater Classification:

Class 1 (domestic) \_\_\_\_\_  
Class 2 (agricultural) \_\_\_\_\_  
Class 3 (livestock) 2

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 (Table 1- Chapter 8).

Groundwater classification and trigger values were assigned based on samples from wells which were not downgradient from the reservoir. The operator has subsequently installed and sampled downgradient wells. The samples for these new wells were collected the same day that the wells were constructed and were analyzed for a limited suite of parameters and thus should be considered preliminary only. The results from these preliminary samples are consistent with the previous groundwater samples. The operator shall collect additional water quality samples to confirm water chemistry prior to discharging into the reservoirs as was committed to in the application.

Description of Hydrogeology: As-built, Chapter 3 permit (06-645) for monitoring wells associated with Phase I of the Wormwood POD was approved November 13, 2006. The application for 06-645 originally included reservoirs: Iberlin 43-3-4676 and Iberlin 44-3-4676, however it was determined that additional work would be required for these two reservoirs. Thus, they are being permitted separately as Phase II. The additional wells installed for these two reservoirs are consistent with and support the hydrogeologic interpretations made in the Phase I report.

**Table 1. Names of Impoundments covered under Permit 06-814**

Impoundment Name	Capacity (acre/ft)	Qtr	Qtr	Section	Town.	Range	Downgradient Monitoring Well
Iberlin 43-3-4676	57	NE	SE	3	46 N	76 W	MW43-3C2
Iberlin 44-3-4676	36.8	S	W	2	46 N	76 W	MW44-3C1

## 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 downgradient wells: MW43-3C2, and MW44-3C1.
- Water Quality results for additional samples from these wells will be submitted to the WDEQ/LQD prior to discharging to these reservoirs.
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **April 15, 2007**.
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Impoundment Iberlin 43-3-4676**

Parameter	Iberlin 43-3-4676 Background Value (mg/L) (05/03/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	0.013	≥ 0.04	0.05
Sulfate	335	≥ 2400	3000
Total Dissolved Solids (TDS)	680	≥ 4000	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

**Impoundment Iberlin 44-3-4676**

Parameter	Iberlin 44-3-4676 Background Value (mg/L) (03/02/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	392	≥ 2400	3000
Total Dissolved Solids (TDS)	690	≥ 4000	5000
pH	8.2	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. These values were based on analyses from the wells indicated in the table which are not the downgradient monitor wells. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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**

**UW/rm7-0131**

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

PERMIT NO. 06-815

Dugout Draw: Moonlight, Badger, Sage Brush and Omaha Stock Reservoirs

This permit hereby authorizes the applicant:

Thomas Operating Company, Inc.  
Attn: Mr. Scott Smith  
1775 Sherman St. Ste. 1675

to have installed four compliance monitoring wells according to the procedures and conditions of the application number 06-815. The facilities are proximal to the coalbed methane produced water impoundments located in Township 54N, Range 73W, Sections 10, 11, 14, and 15 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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

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

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

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

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

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

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

1 of 3: 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 3: 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 3: 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 wells: 44-10 MW-1, 41-15 MW-2, SB-03, 44-11 MW-2.
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **April 15, 2007**.
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

#### Impoundment Moonlight

Parameter	44-10 MW-1 Background Value (mg/L) (10/04/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	317	≥ 2400	3000
Total Dissolved Solids (TDS)	1380	≥ 4000	5000
pH	8.0	≤ 6.5	6.5 – 8.5 (s.u)

#### Impoundment Badger

Parameter	41-15 MW-2 Background Value (mg/L) (10/4/6)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	9	≥ 2400	3000
Total Dissolved Solids (TDS)	800	≥ 4000	5000
pH	8.1	≤ 6.5	6.5 – 8.5 (s.u)

#### Impoundment Sage Brush

Parameter	SB-3 Background Value (mg/L) (9/13/6)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)

Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	507	≥ 2400	3000
Total Dissolved Solids (TDS)	1680	≥ 4000	5000
pH	8.0	≤ 6.5	6.5 – 8.5 (s.u)

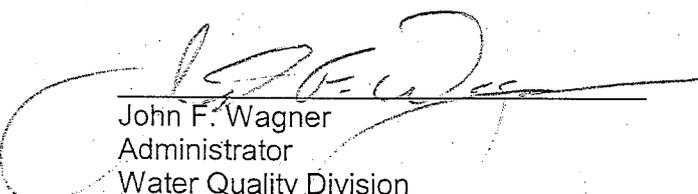
### Impoundment Omaha

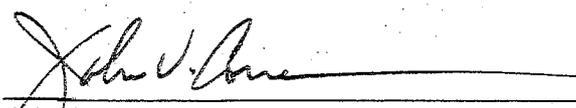
Parameter	44-11 MW-2 Background Value (mg/L) (10/4/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	<1 (ND)	≥ 2400	3000
Total Dissolved Solids (TDS)	1210	≥ 4000	5000
pH	7.9	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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.

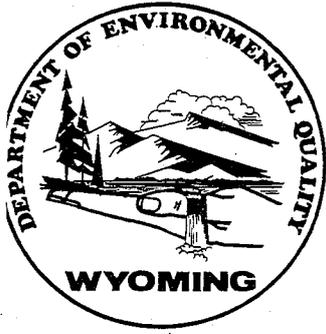
AUTHORIZED BY:

  
 John F. Wagner  
 Administrator  
 Water Quality Division

  
 John V. Corra  
 Director  
 Department of Environmental Quality

1/27/07  
 Date of Issuance

UW/rm/7-0077



**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:** 06-815

**SITE (POD) NAME:**   Dugout Draw: Moonlight, Badger, Sage Brush, and Omaha  
Stock Reservoirs

**APPLICANT:**           Thomas Operating Company, Inc.  
Attn.: Mr. Scott Smith  
1775 Sherman St., Ste. 1675  
Denver, CO 80203

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

**LOCATION:**             Drainage: Unnamed tributary to Horse Creek,  
tributary to Little Powder River  
County : Campbell  
Township 54 North;   Range 73 West

**DATE ON REPORT:**     November 20, 2006

**REVIEWING OFFICIAL:** Ursula Williams, North District Groundwater Sen. Analyst

**DATE OF THIS REVIEW:**   January 16, 2007

**ACTION:**            Compliance Monitoring Plan authorized for Dugout Draw POD pursuant  
to conditions on permit # 06-815

## COMMENTS: GROUNDWATER SECTION

### 1.0 SITE SUMMARY:

#### 1.1 Site Description.

Watershed Name: unnamed tributaries to Horse Creek, tributary to Little Powder River

Groundwater Classification:

Class 1 (domestic) \_\_\_\_\_

Class 2 (agricultural) \_\_\_\_\_

Class 3 (livestock) 4

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 various parameters (Table 1- Chapter 8).

**Table 1. Summary of key water quality parameters**

Parameters	Class II limit	Moonlight	Badger	Sage Brush	Omaha
Arsenic (mg/l)	0.1	ND	ND	ND	ND
Selenium (mg/l)	0.02	ND	ND	ND	ND
Sulfate (mg/l)	200	317	9	507	ND
Total Dissolved Solids (mg/l)	2000	1380	800	1680	1210
Sodium Adsorption Ratio	8	10.3	9.8	5.9	9.8
Manganese (mg/l)	0.2	0.17	0.09	0.39	0.08

Description of Hydrogeology: Four existing reservoir sites were investigated in this phase of the Dougout Draw POD. Groundwater occurs in coals which were encountered between 115 and 155 feet bgs and varied in thickness from 28 to 41 feet. Groundwater flow appears to sub-parallel to Horse Creek. The coal is confined in the locations investigated by 28 to 65 feet of head. Significant water in alluvial deposits was not encountered.

A slump block was identified in the monitoring well below the Badger stock reservoir. This may represent a potential pathway for leakage from the reservoir.

A well, permitted for livestock watering purposes, was identified within ¼ mile of the Omaha Stock Reservoir. This well is nearly three hundred feet deep and will not likely be impacted by the reservoir which is only 2.9 acre-feet in capacity.

**Table 2. Names of Impoundments covered under Permit 06-815**

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Town.	Range	Down-gradient Monitoring Well
Moonlight	3.3	SESE	10	54 N	73 W	44-10 MW-1
Badger	3.8	NENE	15	54 N	73 W	41-15 MW-2
Sage Brush	6.9	NWNW	14	54 N	73 W	SB-03
Omaha	2.9	SESE	11	54 N	73 W	44-11 MW-2

## 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 wells: 44-10 MW-1, 41-15 MW-2, SB-03, 44-11 MW-2.
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **April 15, 2007**.
- The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

### Impoundment Moonlight

Parameter	44-10 MW-1 Background Value (mg/L) (10/04/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	317	≥ 2400	3000
Total Dissolved Solids (TDS)	1380	≥ 4000	5000
pH	8.0	≤ 6.5	6.5 – 8.5 (s.u)

### Impoundment Badger

Parameter	41-15 MW-2 Background Value (mg/L) (10/4/6)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	9	≥ 2400	3000
Total Dissolved Solids (TDS)	800	≥ 4000	5000
pH	8.1	≤ 6.5	6.5 – 8.5 (s.u)

### Impoundment Sage Brush

Parameter	SB-3 Background Value (mg/L) (9/13/6)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	507	≥ 2400	3000
Total Dissolved Solids (TDS)	1680	≥ 4000	5000
pH	8.0	≤ 6.5	6.5 – 8.5 (s.u)

### Impoundment Omaha

Parameter	44-11 MW-2 Background Value (mg/L) (10/4/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	<0.005 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	<1 (ND)	≥ 2400	3000
Total Dissolved Solids (TDS)	1210	≥ 4000	5000
pH	7.9	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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**

**UW/rm/7-0077**

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

PERMIT NO. 06-817

ANTELOPE POD: P58-79-2011

This permit hereby authorizes the applicant:

Nance Petroleum Corporation  
Attn.: Mr. Jim Shaffer  
550 N. 31<sup>st</sup> St., Suite 500  
Billings, MT 59101

to have installed one compliance monitoring well according to the procedures and conditions of the application number 06-817. The facilities are proximal to the on channel coalbed methane produced water impoundments located in Township 58N, Range 79W, Section 20 in the county of Sheridan, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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

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

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

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

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

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit

does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

1 of 3: 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 3: 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 3: 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 downgradient well MW58-78-2011A.
- Reporting results of quarterly monitoring and sampling need to be at the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by **April 15, 2007**.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

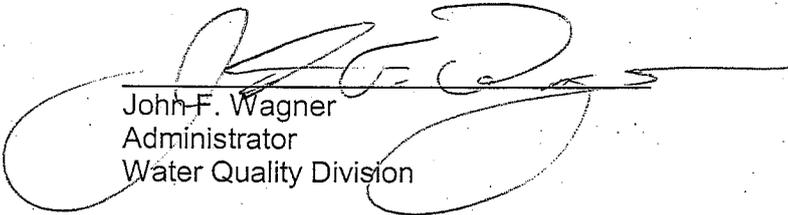
**Impoundment P58-79-2011**

Parameter	MW 58-79-2011A Background Value (mg/L) (06/21/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0007	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2170	≥ 2400	3000
Total Dissolved Solids (TDS)	4090	≥ 4500	5000
pH	6.9	≤ 6.5	6.5 – 8.5 (s.u)

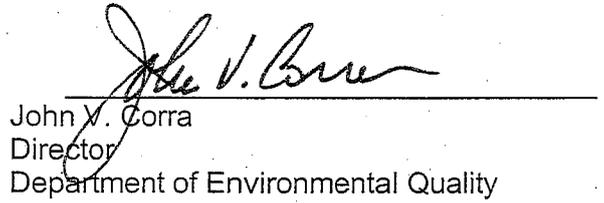
Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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.

AUTHORIZED BY:



John F. Wagner  
Administrator  
Water Quality Division



John V. Corra  
Director  
Department of Environmental Quality

1/30/07  
Date of Issuance

AWV/rm/7-0091

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: 06-817

SITE (POD) NAME: Antelope POD P58-79-2011

APPLICANT: Nance Petroleum Corporation  
Attn: Jim Shaffer  
550 N. 31<sup>st</sup> Street, Ste. 500  
Billings, Montana 59103-7168

CONSULTANT: HydroSolutions Inc.  
Attn: Monte Smith  
P.O. Box 80866  
Billings, Montana 59108-0866

LOCATION: Drainage: Hanging Woman Creek a tributary of the Tongue River  
County: Sheridan  
Township 58 North, Range 79 West, Section 20

WYPDES No: Discharge Permits #WY0052407

DATE ON REPORT: November 16, 2006

REVIEWING OFFICIAL: Pete Vogel, North District Groundwater Senior Analyst

DATE OF THIS REVIEW: January 25, 2006

ACTION: Compliance Monitoring Plan authorized for Antelope POD,  
impoundment P58-79-2011 pursuant to conditions on permit #  
06-817

## COMMENTS: GROUNDWATER SECTION

### 1.0 SITE SUMMARY:

#### 1.1 Site Description.

Watershed Name: Hanging Woman Creek a tributary of the Tongue River

Groundwater Classification:

Class 1 (domestic)	_____
Class 2 (irrigation)	_____
Class 3 (agricultural)	<u>1</u>

Basis for Classification: Laboratory analysis of groundwater indicates ambient water quality at the impoundment meets Water Quality Rules and Regulations Chapter 8 Class III standards (Table 1- Chapter 8) as follows:

Monitor well MW58-78-2011A is a down gradient well to impoundment P58-79-2011. Groundwater from this well exceeds Class I and II standards for both Sulfate and Total Dissolved Solids (TDS) with concentrations of 2170 mg/L and 4090 mg/L respectively.

#### 1.2 Hydrogeology and Review:

Impoundment P58-79-2001 is approximately 1500 feet from Hanging Woman Creek in a dry drainage on the southwest alluvial terrace.

Groundwater occurs beneath the impoundment in sandstones first encountered at depths between 4638 and 4708 feet amsl. Sandstone thicknesses range from 5 feet in MW58-79-2011 to 14 feet in MW58-79-2011B. These sandstones are correlative and confined. Static water levels are between 3656.63 in MW56-79-2011B (updip) to 3649.88 in the downdip MW58-78-2011A –approximately 70 feet below the ground surface.

It is important to note that the groundwater gradient is to the southwest within the confined aquifer and is not hydraulically connected to Hanging Woman Creek which is northeast of the impoundment and drains to the northwest. Because of this gradient, the livestock well FR-38 is protected.

**Impoundment referenced by Permit 06-817**

Impoundment Name	Capacity (acre/ft)	Qtr Qtr	Section	Township	Range
P58-79-2011	37.95	NESW	20	58N	79W

**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 monitoring well MW 58-79-2011A.
- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by April 15, 2007.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Impoundment – P58-79-2011  
WYPDES #WY0052407**

Parameter	MW 58-79-2011A Background Value (mg/L) (1/12/06)	Trigger Value (mg/L)	Class III Water Quality Standards (mg/L)
Arsenic	0.0007	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2170	≥ 2400	3000
Total Dissolved Solids (TDS)	4090	≥ 4500	5000
pH	6.9	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at these impoundments, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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**

**AWV/rm/7-0091**

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

PERMIT NO. 06-818

Willow Creek POD

This permit hereby authorizes the applicant:

Bill Barrett Corporation  
Attn.: Mr. Paul McElvery  
1901 Energy Court, Suite 170  
Gillette, WY 82718

to have installed one compliance monitoring well according to the procedures and conditions of the application number 06-818. The facilities are proximal to the on channel coalbed methane produced water impoundments located in Township 46N, Range 76W, Section 33 in the county of Campbell, in the State of Wyoming. All construction, installation, or modification allowed by this permit has been completed.

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

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

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

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

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

The permittee shall operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit

does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

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

- 1 of 3: 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 3: 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 3: Monitoring Requirements:

Groundwater monitoring beneath the impoundments shall be performed on a quarterly basis unless trigger values are exceeded or written authorization is received from the WDEQ to discontinue quarterly sampling.

Reporting results of quarterly monitoring are due by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data required by this permit shall be due by **January 15, 2008**.

The groundwater reports shall include the measurement of static water level of groundwater at monitoring well 33-1-2. The parameters listed in the table below are required for groundwater compliance monitoring beneath the listed impoundment:

**Impoundment 33-1**

<b>Parameter</b>	<b>33-1-2 Background Value (mg/L) (1/23/06)</b>	<b>Trigger Value (mg/L)</b>	<b>Class III Water Quality Standards (mg/L)</b>
Arsenic	<0.001 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2350	≥ 2400	3000
Total Dissolved Solids (TDS)	3620	≥ 4000	5000
pH	7.23	≤ 6.5	6.5 – 8.5 (s.u)

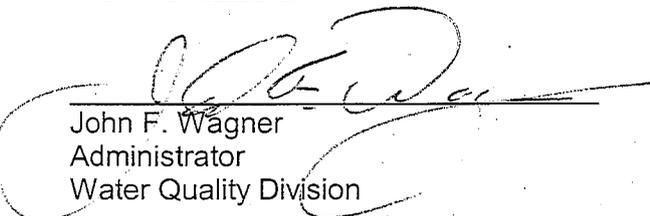
Trigger values, specific to the groundwater samples at each impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required until written authorization is received from the WDEQ to discontinue monthly monitoring. The monthly analytical results are due by the 15<sup>th</sup> day of each month.

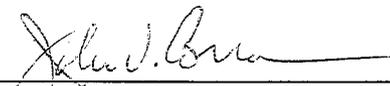
If groundwater monitoring reveals a pH measurement of 6.5 or less, the WDEQ may require sampling and analysis of groundwater for the following additional parameters: aluminum, boron, cadmium, chromium, copper, lead and zinc.

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](mailto: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 exceedance of the water quality standards listed above will be considered a violation of this permit. If an exceedance of groundwater standards occurs as a result of the operation of the impoundment, the WDEQ may require 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

10/23/07  
\_\_\_\_\_  
Date of Issuance

JFW/JVC/WDF/cs/7-0921



**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:** 06-818

**SITE (POD) NAME:** Willow Creek POD

**APPLICANT:** Bill Barrett Corporation  
1901 Energy Court, Suite 170  
Gillette, WY 82718

**CONSULTANT:** CER Professional Consultants  
Attn.: Gerald Williams  
400 S. Miller Ave.  
Gillette, WY 82716

**LOCATION:** Drainage: Unnamed tributary to Pumpkin Creek,  
tributary to Powder River  
County : Campbell  
Township 46 North; Range 76 West

**DATE ON ORIGINAL REPORT:** November 24, 2006

**REVIEWING OFFICIAL:** Ursula Williams, North District Groundwater Sen. Analyst

**DATE OF THIS REVIEW:** October 22, 2007

**ACTION:** Compliance Monitoring Plan authorized for Willow Creek POD pursuant to conditions on permit # 06-818

**COMMENTS: GROUNDWATER SECTION**

**1.0 SITE SUMMARY:**

**1.1 Site Description.**

Watershed Name: unnamed tributary to Pumpkin Creek, tributary to Powder River

Groundwater Classification:

- Class 1 (domestic)
- Class 2 (agricultural)
- Class 3 (livestock)      X

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 (Table 1- Chapter 8).

Description of Hydrogeology: Groundwater occurs beneath the Willow Creek POD in clayey sands which were encountered between 4691 and 4697 feet amsl and varied in thickness from 23 to 39 feet. The water bearing zone is confined with some 23 to 30 feet of head above the top of the water bearing zone. Groundwater flow appears to be towards the west.

Alluvium was not encountered in any of the boreholes. The reservoir is located on what appears to be a deeply incised channel close to the hydrologic divide between Willow Creek and Pumpkin Creek. There is about one half square mile of contributing drainage area above the impoundment site.

**Table 1. Name of Impoundment covered under Permit 06-818**

Impoundment Name	Capacity (acre/ft)	Qtr	Qtr	Section	Town.	Range	Downgradient Monitoring Well
33-1	20	SENW		33	46 N	76 W	33-1-2

**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 downgradient wells: 33-1-2.

- Reporting results of quarterly monitoring and sampling to the department by January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup>, and October 15<sup>th</sup> of each year. The first set of data will be due by January 15, 2008.

The parameters listed in the tables below are required for groundwater compliance monitoring beneath the listed impoundments:

**Impoundment 33-1**

Parameter	33-1-2		Class III Water Quality Standards (mg/L)
	Background Value (mg/L) (1/23/06)	Trigger Value (mg/L)	
Arsenic	<0.001 (ND)	≥ 0.16	0.2
Selenium	<0.005 (ND)	≥ 0.04	0.05
Sulfate	2350	≥ 2400	3000
Total Dissolved Solids (TDS)	3620	≥ 4000	5000
pH	7.23	≤ 6.5	6.5 – 8.5 (s.u)

Trigger values, specific to the groundwater samples at this impoundment, have been assigned to each constituent and are also listed above. If one or more of these trigger values is exceeded during a quarterly sampling event, monthly sampling of the groundwater for all listed parameters is required, with the analytical results due by the 15<sup>th</sup> day of each month. 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](mailto: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**



# 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

December 11, 2006

Hubert & Amy Nickle Jr.  
33 14<sup>th</sup> Street  
Wheatland, Wyoming 82201

RE: Huey Nickle Trucking Shop & Home Site Septic System, Application No. **06-819**  
Location: SW $\frac{1}{4}$  NW $\frac{1}{4}$ , Section 20, T24N, R67W, Platte County

Dear Mr. & Mrs. Nickle:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility for a **4 bedroom house and a shop** 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 December 11, 2008. Please reference Application Number **06-819** in any future correspondence.

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

Sincerely,

Ronald L. Ewald, P.E.  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/rm/6-1145

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

cc: IPS, Cheyenne  
Platte County Planner, Marlin Johnson, P.O. Box 728, Wheatland, Wyoming 82201

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

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 11, 2006

Randy Lane  
P.O. Box 769  
Saratoga, Wyoming 82331

RE: Lane Residential Septic System,  
Location: SE¼, Section 31, T18N, R83W,

Application No. **06-820**  
Carbon County

Dear Mr. Lane:

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, 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 approval granted under this Notification Of Coverage and the General Permit shall expire on December 11, 2008. Please reference Application Number **06-820** in any future correspondence.

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

Sincerely,

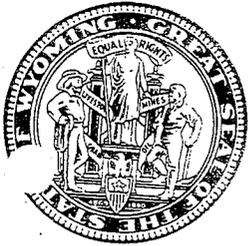
Ronald L. Ewald, P.E.  
Environmental Senior Analyst  
Southeast District, Water Quality Division

RLE/rm/6-1146

Enclosures: GENERAL PERMIT - Small Wastewater Facility  
Certificate of Completion

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





# 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

December 11, 2006

Mr. Gregg Olson, Chairman  
Rawlins - Carbon County Airport Board  
P.O. Box 7  
Rawlins, WY 82301

RE: Rawlins Airport Sanitary Sewer, Application No. **06-821**, Carbon County

Dear Mr. Olson:

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 637 ft of 6" diameter sewer line with two manholes, SW 1/4 Section 10 T21N R87W; Carbon County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the 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 May 10, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **06-821** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

cc: IPS, Cheyenne

David Schultz, Sage Civil Engineering  
2824 Big Horn Avenue  
Cody WY 82414

LBH/rm/6-1144



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

Permit No. 06-822

**Washakie County School District No. 1 Sewer Line Replacement**

This permit hereby authorizes the applicant:

Jack Stott, Business Manager  
Washakie County School District No.1  
1900 Howell Ave.  
Worland, WY 82401

to have replaced about 450 linear feet of collapsed 6-inch vitrified clay tile sewer main with 6-inch PVC sewer main which serves the school building and runs along the new parking lot according to the procedures and conditions of the application number 06-822. The Department of Environmental Quality (DEQ) was contacted on October 20, 2006 and permission was verbally granted for as-built submittal. The project was completed on November 20, 2006. The facility is located in Section 25, T47N, R93W in the county of Washakie, in the State of Wyoming.

The issuance of this permit confirms that the 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/or operator. Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, meets applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

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

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

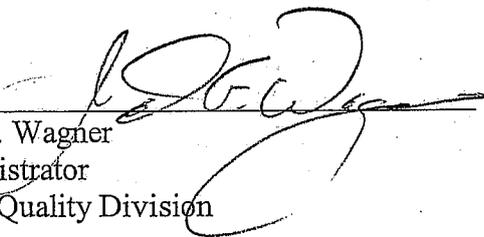
Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit. The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

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

1 of 1 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 Corra  
Director  
Department of Environmental Quality

*1/3/07*  
\_\_\_\_\_  
Date of Issuance

JSB/rm/7-0002  
*ARC 1/3/7*

## STATEMENT OF BASIS

1. Permit Number: 06-822
2. Application reviewed for compliance with the following regulations:  
Chapters 11
3. Does the permit comply with all applicable regulations identified above?  
Yes
4. A review to determine groundwater impacts in accordance with Section 17, Chapter 3.  
Sewerage systems are exempted from review by Chapter 3, Section 17.
5. Documentation of Statement of Basis: The archives file for this permit includes adequate documentation of all sections of this Statement of Basis.

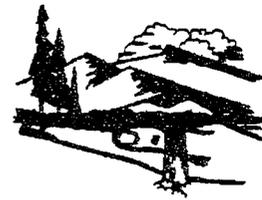
### CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by, James Brough, Northwest District Engineer, [jbroug@state.wy.us](mailto:jbroug@state.wy.us) and completed on December 21, 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."

Cc: Mike Donnell, P.E., Donnell & Allred, Inc., P.O. Box 638, Worland, WY 82401  
Gene Cliame, City of Worland, P.O. Box 226, Worland, WY 82401



# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 18, 2006

Mayor Linda Corners  
Town of Baggs  
130 Penland Street  
Baggs, WY 82321

RE: Baggs WY Water System Improvement Project, Application No. **06-823**, Carbon County

Dear Mayor Corners:

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 described as water transmission line to replace water distribution line, water distribution lines, and fill station, Sections 5 and 8 T12N R91W; Carbon County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the general permit and the materials submitted in your application package. An air gap must be created between the drain solenoids and the floor of the service building for the fill lines. All construction, installation, or modification allowed by this notification of coverage shall be completed by September 15, 2011.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **06-823** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

cc: IPS, Cheyenne

James A. O'Neill, Lidstone and Associates, Inc.  
4025 Automation Way, Bldg E  
Fort Collins CO 80525

LBH/rm/6-1166

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

ADMIN/OUTREACH (307) 777-7937 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 16, 2007

Mr. Rich Merrill, City Engineer  
P.O. Box C  
Laramie, WY 82073

RE: 2006 Cedar St Sanitary Sewer Improvements, Application No. **06-824**, Albany County

Dear Mr. Merrill:

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 of Existing Sewage Collection Systems described as 4004 linear feet of 30" diameter PVC sewer pipe with manholes with associated abandonment of water main and other utility relocations, NE SE1/4 Section 32 T16N R73W; Albany County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 10, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **06-824** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

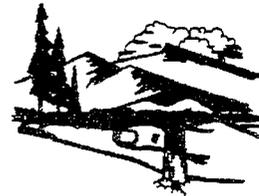
Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

LBH/bb/7-0050.NOC  
cc: IPS, Cheyenne





# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 12, 2006

MS Kimberley Withers, President  
Meridian Trust Federal Credit Union  
2223 Warren Ave  
Cheyenne, WY 82001

RE: Rawlins Meridian Trust FCU Water and Sewer Services, Application No. **06-825**, Carbon County

Dear MS Withers:

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 of Existing Sewage Collection Systems described as water and sanitary sewer services, Lot 3 Block 10 Industrial Addition to Rawlins, WY; Carbon County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 10, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **06-825** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

cc: IPS, Cheyenne

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

LBH/rm/6-1147

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ADMIN/OUTREACH (307) 777-7758 FAX 777 2610	ABANDONED MINES (307) 777-6145 FAX 777 6400	AIR QUALITY (307) 777-7391 FAX 777 5816	INDUSTRIAL SITING (307) 777-7369 FAX 777 5072	LAND QUALITY (307) 777-7756 FAX 777 5964	SOLID & HAZ. WASTE (307) 777-7752 FAX 777 5072	WATER QUALITY (307) 777-7781 FAX 777 5072
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# Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

February 16, 2007

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

06-826 R

RE: Muller Subdivision, Sweetwater County, and WDEQ Application #~~06-826~~R

Dear Mr. Chairman:

The Wyoming Department of Environmental Quality (WDEQ) has completed the review of the above referenced subdivision pursuant to W.S. 18-5-306. The WDEQ has an 'Adverse' recommendation on this proposed subdivision. Our recommendation regarding the feasibility of the proposed water and sewage systems pursuant to the requirements of W.S. 18-5-306 (c) is based on the following findings:

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

Chapter 23, Section 8 (b)(ii) requires certification by the owner of the water distribution and treatment facilities that the system can and will provide adequate service to the proposed subdivision. This certification must be submitted.

### Conclusion(s):

The department has an 'Adverse' recommendation on this proposed subdivision. When the above water supply certification issues are resolved a Non-Adverse recommendation will be given.

### Disclaimer:

Nothing in WDEQ's recommendations or comments regarding the subdivider's proposal shall be construed to relieve the subdivider of their obligation to obtain any permits or additional approval from any local state or federal agencies/entities as required by law, rules and regulations, or ordinance. Nothing in these recommendations commits the WDEQ or the delegated county to the issuance of required permits for construction, operation, or modification of water supply and/or wastewater systems. It is the duty of the subdivider/developer to comply with all applicable federal, state and local requirements.



Chairman  
Sweetwater County Board of Commissioners  
February 16, 2007

Please do not hesitate to contact me at (307) 332-3144 if you have any questions on the recommendations or need any assistance on how to proceed with this application.

Sincerely,



Perry Roberson  
Senior Environmental Analyst  
Water Quality Division



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

xc:

Mark Kot, Sweetwater County Planning & Zoning, 80 West Flaming Gorge Way, Green River,  
Wyoming 82935

Gregory A. and Sharlene R. Muller, 2048 Fir Drive, Rock Springs, WY 82901

Randy Hansen, P.E., JFC Engineers and Surveyors, 1515 Ninth Street, Suite A,

Rock Springs, WY 82901

IPS-Cheyenne

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# Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 20, 2006

James A. Anderson  
Anderson Ranch Company  
P.O. Box 333  
Ten Sleep, WY 82442

RE: Mountain View Sewer Extension, Permit Number: 06-827, Sections 16 & 17, T47N, R88W, Washakie County

Dear Mr. Anderson:

The above application for coverage under General Permit to install approximately 880 linear feet of 8-inch sewer line, extension of an existing sewer collection, to serve five new lots plus future expansion has been reviewed in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

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 James Brough at 307-332-3144.

Sincerely,

James Brough, P.E.  
Environmental Engineer  
Water Quality Division

xc: IPS, Cheyenne  
Willie Bridges, P.E., Pryor Mountain Engineering, P.O. Box 671, Cowley, WY 82420  
Rusty Pensak, Town of Ten Sleep, P.O. Box 5, Ten Sleep, WY , 82442

enci: 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





# 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

January 5, 2007

Rodney Warren, Maintenance Foreman  
Conoco/Phillips  
P.O. Box 5  
Lysite, WY 82642

RE: Conoco /Phillips' Lost Cabin Gas Plant Septic System Expansion, Permit Number: 06-828R, NW ¼, Section 11, T38N, R90W, Big Horn County

Dear Mr. Warren:

The above application for coverage under General Permit to construct about 140 linear feet of 6-inch sewer collector line, two 1,000-gallon septic tanks in parallel, and about 150 linear feet of 4-inch septic tank effluent line to an existing distribution box has been reviewed in accordance with Chapter 3, Section 7; and Chapter 11, Parts C and D 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 James Brough at 307-332-3144.

Sincerely,

James Brough, P.E.  
Environmental Engineer  
Water Quality Division

xc: IPS, Cheyenne  
Terry Zenk, P.E. Apex Surveying, Inc. P.O. Box 1751, Riverton, WY 82501

encl: General Permit For a Small Wastewater Facility

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





# 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

December 13, 2006

Mr. Les Newton, Director of Public Works  
City of Douglas  
P.O. Box 1030  
Douglas, WY 82633,

RE: Douglas Business Park Phase III, Application No.06-830, Converse County

Dear Mr. Newton:

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 of Existing Sewage Collection Systems described as the Douglas Business Park Water and Sewer Extensions, W 1/2 Section 17 T32N R71W; Converse County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the water distribution system in accordance with Chapter 12, Section 14 of the Water Quality Division Rules and Regulations, the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, and both systems in accordance with the general permit and the materials submitted in your application package. All service connections will be protected by the appropriate backflow device as required by Chapter 12, Section 14(i) of the Water Quality Division Rules and Regulations. All construction, installation, or modification allowed by this notification of coverage shall be completed by May 10, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 06-830 in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

cc: IPS, Cheyenne

Susan Holmes, HKM Engineering  
16 W 8th Street  
Sheridan WY 82801

LBH/rm/6-1156

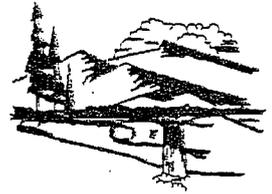
Herschler Building • 122 West 25th Street • Cheyenne, WY 82002 • <http://deq.state.wy.us>

ADMIN/OUTREACH (307) 777-7758 FAX 777-3610	ABANDONED MINES (307) 777-6145 FAX 777-6462	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7369 FAX 777-5973	LAND QUALITY (307) 777-7756 FAX 777-5864	SOLID & HAZ. WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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# 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

January 31, 2007

**ARCHIVES**

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

RE: Lovell Community Center's Small Wastewater Treatment Facility and Water Line,  
Permit Number: 06-831; NW ¼, Section 15, T56N, R96W, Big Horn County

Dear Mayor Morrison:

The above application for coverage under General Permit to construct a leachfield and 4-inch water line has been reviewed in accordance with Chapter 3, Section 7; Chapter 11, Part D, and Chapter 12, Section 14 of the Wyoming Water Quality Rules and Regulations and is hereby approved provided that:

*A flow divider tee is used to evenly split the wastewater flows between the two trenches in the leachfield.*

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 James Brough at 307-332-3144.

Sincerely,

James Brough, P.E.  
Environmental Engineer  
Water Quality Division

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

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LAND QUALITY  
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FAX 332-7726

SOLID & HAZARDOUS WASTE  
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WATER QUALITY  
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FAX 332-3183





The State  
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## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

### NOTIFICATION OF COVERAGE

January 4, 2007

Toby Connally  
10910 Bellfourche Avenue  
P.O.Box 582  
Moorcroft, WY 82721

RE: Connally Residential Septic System  
Permit # 06-832

Dear Mr. Connally:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with 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 Karen L. Farley at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3478. Thank you.

Sincerely,

Karen L. Farley, P.E.  
Northeast District Supervisor  
DEQ/WQD

Enclosures: General Permit  
Certificate of Completion

cc: IPS, Cheyenne  
Linda Fritz, Crook County, P.O. Box 37, Sundance, WY 82729





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## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

### NOTIFICATION OF COVERAGE

March 16, 2007

William A. Mentock, PE/LS  
Engineering, Inc.  
No. 2 Taylor Place  
1030 N. Main Street  
Sheridan, WY 82801

RE: Whitney Plaza P.U.D., Sewer and Water Line Extensions, Sheridan County, WDEQ #06-833

Dear Sirs:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems in accordance with Chapter 3 and 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(ies) 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 307-473-3478.

Sincerely,

Karen L. Farley, P.E.  
Northeast District Supervisor, Water Quality Division

Enclosures: General Permits  
Application  
Certificate of Completion

cc: EAW, Inc., P.O. Box 5085, Sheridan, WY 82801 (w/o enclosures)  
Mike Cole, P.E., City of Sheridan, P.O. Box 848, Sheridan, WY 82801 (w/o enclosures)  
WDEQ File  
IPS, Cheyenne





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## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

### NOTIFICATION OF COVERAGE

March 12, 2007

Ken Rathbun, P.E.  
Bearlodge Limited, Inc.  
P.O. Box 130  
Sundance, WY 82729

RE: Beagle Water and Sewer Project, Crook County, WDEQ #06-834

Dear Sirs:

The above application for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Public Water Supply Distribution Systems in accordance with Chapter 3 and Chapter 12 of the Wyoming Water Quality Rules and Regulations and for coverage under General Permit to Construct, Install, Modify or Operate Extensions to or Modification of Existing Sewage Collection Systems in accordance with Chapter 3 and 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(ies) 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 307-473-3478.

Sincerely,

Karen L. Farley, P.E.  
Northeast District Supervisor, Water Quality Division

Enclosures: General Permits  
Application  
Certificate of Completion

cc: City of Sundance, P.O. Box 542, Sundance, WY 82729  
WDEQ File  
IPS, Cheyenne





The State  
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## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

### NOTIFICATION OF COVERAGE

January 22, 2007

Terry Gunnink  
731 S. Seneca  
Newcastle, WY 82701

RE: Gunnink Residential Septic System  
Permit # 06-835

Dear Mr. Gunnink:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with 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 Karen L. Farley at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3478. Thank you.

Sincerely,

Karen L. Farley, P.E.  
Northeast District Supervisor  
DEQ/WQD

Enclosures: General Permit  
Certificate of Completion

cc: IPS, Cheyenne  
Tim Lyons, Crook County, P.O. Box 37, Sundance, WY 82729





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Dave Freudenthal, Governor

# Department of Environmental Quality

John Corra, Director

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

## NOTIFICATION OF COVERAGE

May 18, 2007

Brad Holyoak  
Eagle Excavation  
P.O. Box 625  
Moorcroft, WY 82721

RE: Eagle Excavation Commercial Septic System  
Permit # 06-836

Dear Mr. Holyoak:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with 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 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3452. Thank you.

Sincerely,

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

Enclosures: General Permit  
Certificate of Completion

cc: IPS, Cheyenne  
Steve Bruce, Bruce Engineering, P.O. Box 194, Gillette, WY 82717-0194  
Keith Bowar, Campbell County, 500 South Gillette Avenue, Suite 1500, Gillette, WY 82716  
WQD File

Page 1 of 1





# Department of Environmental Quality



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

Dave Freudenthal, Governor

John Corra, Director

January 18, 2007

Kent Connelly  
Lincoln County Board of Commissioners  
925 Sage Avenue, Suite 302  
Kemmerer, WY 83101

RE: Cottonwood Creek Subdivision, Lincoln County, and WDEQ Application #06-837.

Dear Mr. Chairman:

The Wyoming Department of Environmental Quality (WDEQ) has completed the review of the above referenced subdivision pursuant to W.S. 18-5-306. The WDEQ has a 'Non-Adverse' recommendation on this proposed subdivision. Our recommendation regarding the feasibility of the proposed water and sewage systems pursuant to the requirements of W.S. 18-5-306 (c) is based on the following findings:

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

The WDEQ finds the proposed sewage system to be safe and adequate. The applicant's consultant has indicated that there is a confined aquifer at a depth greater than 200 feet suitable for domestic water present in the area of the proposed subdivision. Therefore, conventional septic systems can be used in this subdivision. Soils percolation rates ranged from 0.7 minutes per inch to 7 minutes per inch. Since Lincoln County has been delegated by the department to issue small wastewater system permits it is the county's responsibility to ensure, prior to issuing the permits that all permit requirements and design standards will be met.

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

The WDEQ finds the water supply proposed by the developer's consultant (individual well(s) into a confined aquifer at a depth greater than 200 feet) appear to be safe and adequate. No leach fields or other potential sources of contamination will be allowed to be constructed or placed within a 100 foot radius of the water supply well(s).

Page 1 of 2

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FAX 332-7726

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

WATER QUALITY  
(307) 332-3144  
FAX 332-3183



Chairman  
Lincoln County Board of Commissioners  
January 18, 2007

Conclusion(s):

The department has a 'Non - Adverse' recommendation on this proposed subdivision.

Disclaimer

Nothing in WDEQ's recommendations or comments regarding the subdivider's proposal shall be construed to relieve the subdivider of their obligation to obtain any permits or additional approval from any local state or federal agencies/entities as required by law, rules and regulations, or ordinance. Nothing in these recommendations commits the WDEQ or the delegated county to the issuance of required permits for construction, operation, or modification of water supply and/or wastewater systems.

It is the duty of the subdivider/developer to comply with all applicable federal, state and local requirements. Please do not hesitate to contact me at (307) 332-3144 if you have any questions on the recommendations or need any assistance on how to proceed with this application.

Sincerely,



Perry Roberson  
Senior Environmental Analyst



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

xc:

Ryan J. Erickson, P.E., Sunrise Engineering, Inc., P.O. Box 609, Afton, WY 83110  
Kyle Walker, P.O. Box 396, Pinedale, WY 82941  
John Woodward, Lincoln County Office of Planning and Development, P.O. Box 414, Afton, WY 83110  
Mike Ebsen, Wyoming State Engineers Office, Herschler Building, 4<sup>th</sup> Floor East, Cheyenne, Wyoming 82002  
IPS-Cheyenne

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## Department of Environmental Quality

Dave Freudenthal, Governor

John Corra, Director

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

### NOTIFICATION OF COVERAGE

January 11, 2007

Dale Schonenbach  
PO Box 1331  
Sundance, WY 82729

RE: Schonenbach Small Wastewater System Permit# 06-838

Dear Mr. Schonenbach:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3 and Chapter 11, Part D, of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, 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.

If you have any questions please contact Dennis Lamb at 152 North Durbin, Casper, WY, 82601, (307) 473-3452. Thank you.

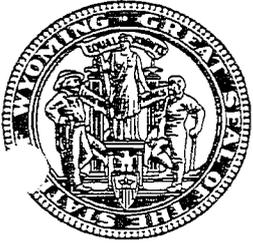
Sincerely,

Dennis Lamb  
CBM Group Supervisor DEQ/WQD

cc:

IPS, Cheyenne





# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 21, 2006

Jim L Brost  
IXP, Inc.  
P.O. Box 1425  
Pinedale, WY 82941

RE: IXP, Inc. - Small Waste Water System - Permit Number 06-839, NW 1/4 Section 5, T30N, R107W, Sublette County

Dear Mr. Brost:

The above application for coverage under General Permits to Construct a small waste water treatment and disposal system consisting of an Office system with a 1000 gallon septic tank and 37 infiltrator units and a Shop System with two 1500 gallon septic tanks and 182 infiltrator units in accordance with Chapter 3, Section 7 and Chapter 11, Part D of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the 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

xc: IPS, Cheyenne  
Keith Raney, Sublette County Environmental Health, P.O. Box 722, Pinedale, WY 82941

encl: General Permit for a Small Waste Water System

Page 1 of 1

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FAX 332-7726

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

WATER QUALITY  
(307) 332-3144  
FAX 332-3183



WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

PERMIT NO. 06-840

Riverton Well #17 Drilling

This permit hereby authorizes the applicant:

Bill Urbigkit, Public Works Director  
City of Riverton  
816 N. Federal Blvd.  
Riverton, WY 82501

to drill, construct, develop and test Riverton Well #17; according to the procedures and conditions of the application number 06-840. The facility is located within SE 1/4, Section 19, T1N, R4E in the county of Fremont, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by January 22, 2009.

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.

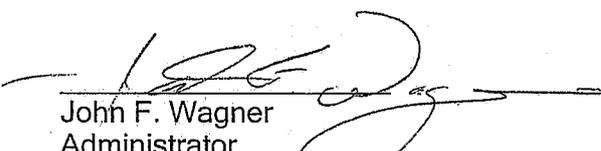
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, or any infringement of federal, state or local laws or regulations.

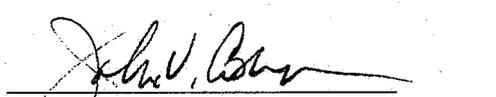
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization 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 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

1/23/07  
Date of Issuance

JSB/rm/7-0075  
*JSB* 1/23/07

## STATEMENT OF BASIS

1. Permit Number: 06-840
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. However, subsequent plans and specifications must be submitted for the equipping of the well and other construction such as installation of discharge piping, construction of a well house, disinfection, etc.
4. Facilities include components not specifically covered by regulations and approval is based upon a deviation from applicable regulations in accordance with Section 5 of applicable regulations.  
No.
5. If Section 17 of Chapter 3 review is required indicate the basis for determining groundwater will be protected.  
Public water supply wells are exempted from review by Chapter 3, Section 17
6. Documentation of Statement of Basis: The archive file for this permit includes adequate documentation of all sections of this Statement of Basis.

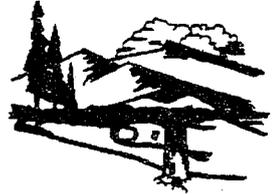
## CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Chapter 3, Section 6, Wyoming Water Quality Rules and Regulations. This review was performed by James S. Brough, [jbroug@state.wy.us](mailto:jbroug@state.wy.us), Environmental Engineer and completed on January 22, 2007. 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: Bryan R. Phinney, P.E., Keller Associates, 412 W. Center, Suite 330, Pocatello, ID 83204



# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

December 19, 2006

Mr. Shaun Powis, General Manager  
Little America Hotel and Resorts  
2800 W. Lincolnway  
Cheyenne, WY 82009

RE: Little America, Cheyenne, Sewer Extensions, Application No. **06-842**, Laramie County

Dear Mr. Powis:

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 a reroute of 235 of existing sanitary sewer line, 369 ft of 10 in diameter HDPE sewer line, manholes and sewer service line, S 1/2 Section 2, N 1/2 Section 11 T13N R67W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the 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 May 10, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. **06-842** in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

cc: IPS, Cheyenne

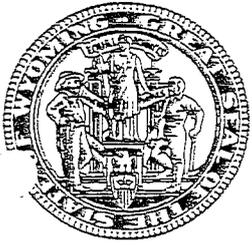
Robert Carpenter, Inberg-Miller Engineers  
350 Parsley Blvd  
Cheyenne, WY 82007

LBH/rm/6-1173

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

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# Department of Environmental Quality



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Dave Freudenthal, Governor

John Corra, Director

## NOTIFICATION OF COVERAGE

January 16, 2007

Ronald C. Hoffman  
1390 East 1600 North  
Mapleton, WY 84664

RE: Ronald C. Hoffman - Small Enhanced Wastewater Treatment System- Permit Number 06-843R, SE1/4 & NE 1/4 Section 10, T33N, R109W, Sublette County, Old Brazzill Ranch Subdivision, Second Filing, Lot 25

Dear Mr. Hoffman:

The above application for coverage under General Permit to Construct a small enhanced wastewater treatment facility, to serve a five bedroom home, in accordance with Chapter 3, Section 7, Chapter 11, Part D and Section 5, Chapter 23, Section 7(d)(viii) of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, the facility in accordance with the general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit.

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

- 1 of 5 This permit is for an enhanced (extended aeration, activated sludge treatment system with and leach field) small wastewater treatment system. The permittee is required to obtain a maintenance contract and submit annual documentation that maintenance is being provided in accordance with the manufacturer requirements and recommendations and the permit conditions. Authority for this requirement is found in Sections 11 (a) and (c), Chapter 3 of the Wyoming Water Quality Rules and Regulations. Annual maintenance documentation must be submitted before December 31 of each year, starting December 31, 2008 to: Southwest District Engineer, Wyoming Department of Environmental Quality, 510 Meadowview Drive, Lander, WY 82520. Failure to submit annual maintenance documentation is a violation of the compliance requirements for this permit issued under Wyoming Statute 35-11-301.

Page 1 of 2

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- 2 of 5 The permittee shall ensure that the system is maintained and regularly serviced, as recommended by the manufacturer, for the life of the system. An inspection of the system, as recommended by the manufacturer in the owner's manual, shall be performed every six months by a qualified or certified individual to ensure the system is operating correctly, and to determine when maintenance is required.
- 3 of 5 In the event that authority for permitting enhanced small wastewater treatment systems is delegated to Sublette County by the Department of Environmental Quality, the permittee shall be subject to all county requirements and resolutions that may be in effect, or subsequently enacted, affecting the inspection, operation, maintenance, monitoring, or replacement of this system.
- 4 of 5 This small enhanced wastewater treatment system must continually achieving the following minimum treatment standards as required by Chapter 23, Section 7(d)(viii)(C) of the Wyoming Water Quality Rules and Regulations at a depth of 6.0 feet above the seasonally high groundwater:
- Fecal Coliform: < 800 colonies/100mL (maximum 30 day geometric mean)
  - Total Kjeldahl Nitrogen: < 25mg/L (maximum 30 day average)
- 5 of 5 The bottom of the leach field must be at least 6.0 feet above the seasonally high ground water.

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

Sincerely,



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

xc: IPS, Cheyenne  
Keith Raney, Environmental Health, Sublette County, P.O. Box 722, Pinedale, WY 82941

encl: General Permit for Small Wastewater Treatment 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

January 16, 2007

Mr. Herman Noe, Manager  
Cheyenne Board of Public Utilities  
P.O. Box 1469  
Cheyenne, WY 82003

RE: Cheyenne BOPU 2007 SRH01 Sewer Line Rehabilitation, Application No. 06-844, Laramie County

Dear Mr. Noe:

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 of Existing Sewage Collection Systems described as miscellaneous sewer line replacements, line lining, and manhole rehabilitation, SW1/4 Section 31 T14N R66W; Laramie County, in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install or modify the sewage collection system in accordance with Chapter 11, Section 9 of the Water Quality Division Rules and Regulations, 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 May 10, 2009.

Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O of the general permit. Please reference Application No. 06-844 in any future correspondence.

If you have any questions, please contact me at 307-777-7088.

Sincerely,

Louis B. Harmon PE-PG  
Southeast District Engineer  
Water Quality Division

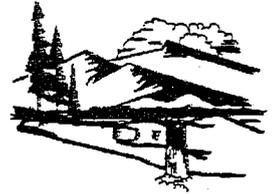
LBH/bb/7-0051.NOC

cc: IPS, Cheyenne  
Jeffrey Pecenka, Cheyenne BOPU, 2406 Snyder Ave., Cheyenne, WY 82001





# Department of Environmental Quality



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John Corra, Director

## NOTIFICATION OF COVERAGE

January 4, 2007

John Albrecht, Coordinator of Support Services  
Park County School District No. 1  
160 N. Evarts St.  
Powell, WY 82435

RE: New Powell High School Athletic Event's Sewer Line, Permit Number: 06-845,  
Sections 5 & 11, T55N, R99W, Park County

Dear Mr. Albrecht:

The above application for coverage under General Permit to install approximately 1164 linear feet of 6-inch sewer line, extension of an existing sewer collection, has been reviewed in accordance with Chapter 3, Section 7 and Chapter 11, Section 9 of the Wyoming Water Quality Rules and Regulations and is hereby approved.

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 James Brough at 307-332-3144.

Sincerely,

James Brough, P.E.  
Environmental Engineer  
Water Quality Division

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

encl: General Permit for a Sewage Collection System



# PERMIT TO CONSTRUCT

Modification  
Reference Permit 03-094

PERMIT NO. **06-846**  
SPECIAL CONDITIONS

Winchester Hills Well No. 3 Re-Completion  
PWS #WY5600779C

This permit hereby authorizes the applicant:

Winchester Hills Utility  
T.F.S. II, L.L.C.  
Attn. Brett A. Vizina, Managing Member  
1124 Dunn Avenue  
Cheyenne, Wyoming 82001

to modify, but not connect, an existing public water supply well according to the procedures and conditions of the application number 06-846. The facility is located in the NW 1/4 NW 1/4 of Section 32, T13N, R66W in the county of Laramie, in the State of Wyoming. All construction, installation, or modification allowed by this permit shall be completed by December 20, 2011.

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

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

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

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

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

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

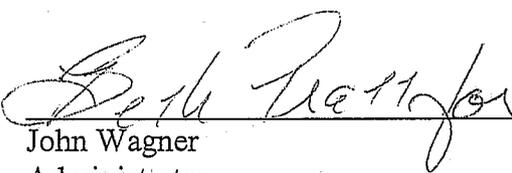
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

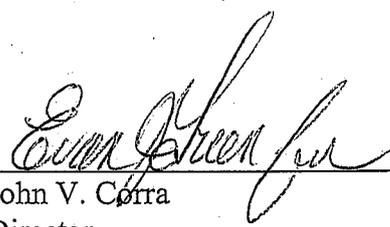
The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization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

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

- 1 of 3. The applicant will provide immediate oral or written notice to the DEQ/WQD Southeast District Office 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. As-Built drawings of the completed well shall be submitted within 30 days after completion of the well.
- 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 Wagner  
 Administrator  
 Water Quality Division

  
 \_\_\_\_\_  
 John V. Corra  
 Director  
 Department of Environmental Quality

12-26-06

\_\_\_\_\_  
Date of Issuance

LBH/rm/6-1179

## STATEMENT OF BASIS

### I. General information.

A. Permit Number: 06-846

1. Application reviewed for compliance with Chapters 3 and 12 of the Water Quality Division Rules and Regulations.
2. Basis for issuing permit: Review of application package indicates proposed facility will not be in compliance with applicable regulations identified in Section II.

A variance to the requirement for annular spacing of 2" or more between the casing and the borehole is granted. As the Lance Formation is competent rock, a gravel pack is not necessary for the well screen. The requirement for minimum annular spacing is to permit proper placement of the gravel pack.

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

Not Applicable

4. 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 Lou Harmon, Southeast District Engineer and completed on December 26, 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."

LBH/rm/6-1179



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

January 23, 2007

Kyle Vavurska  
High Plains Construction  
P.O. Box 833  
Spearfish, SD 57783

RE: Lot 4, Block 3, Sundance View Estates Residential Septic System, Crook County  
Permit # 06-847 (reference permit # 06-782)

Dear Mr. Hughes:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with general permit and the materials submitted in your application package. Your attention is directed to the mandatory reporting requirements outlined in Part V, Section O, of the general permit.

Additionally, the following project specific conditions also apply:

- A. Transfer of Ownership – A *Transfer of Ownership* form must be completed and submitted to this office within 30 days after sale of the property.
- B. Clean-out – A clean out will be required at the 90° bend between the septic tank and the leachfield.



If you have any questions please contact Kim J. Medina at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3476. Thank you.

Sincerely,



Kim J. Medina  
Senior Environmental Analyst  
DEQ/WQD

Enclosures: General Permit  
Certificate of Completion

cc: IPS, Cheyenne  
Tim Lyons, Crook County, P.O. Box 37, Sundance, WY 82729  
Allan Schreier, Schreier Engineering, 1403 5<sup>th</sup> Avenue, Suite 6, Belle Fourche, SD 57717



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

January 23, 2007

Curt Moberg  
P.O. Box 310  
Sundance, WY 82729

RE: Moberg Residential Septic System, Crook County  
Permit # 06-849 Reference Permit 18-14-81 R

Dear Mr. Moberg:

The above application for coverage under General Permit to Construct, Install, Modify or Operate a Small Wastewater Facility in accordance with Chapter 3, Section 9 of the Wyoming Water Quality Rules and Regulations has been reviewed and is hereby approved. You are authorized to construct, install, or modify the facility in accordance with 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 Kim J. Medina at 152 North Durbin Street, Suite 100, Casper, WY, 82601, or at (307) 473-3476. Thank you.

Sincerely,

Kim J. Medina  
Senior Environmental Analyst  
DEQ/WQD

Enclosures: General Permit  
Certificate of Completion

cc: IPS, Cheyenne  
Tim Lyons, Crook County, P.O. Box 37, Sundance, WY 82729

