



Wyoming Pollutant Discharge Elimination System (WYPDES)

Department of Environmental Quality

Application for Permit to Discharge Wastewater for:

Non-process wastewater, Form H

Revised June 12, 2013

RECEIVED
Official Use only
Date Received:

SEP 15 2014

WATER QUALITY DIVISION
WYOMING

- ✓ Please print or type. Submission of illegible materials will result in return of the application to the applicant.
- ✓ All items must be completed accurately and in their entirety or the application will be

1. Check the box corresponding to the type of application being applied for:

New

Renewal

Major modification

Permit number WY0035980 Expiration Date: 03-31-2015

2. Describe the general type of waste to be discharged, including sanitary wastes and non-contact cooling waste.

3. General Facility Location: Township(s) 14N Range(s) 84W

4. Facility street address if applicable: 1310 Frederic Avenue

5. Receiving Waters Encampment Irrigation Ditch class 4A, North Platte River Basin via an unnamed ephemeral tributary

6. Name of the facility producing the discharge Town of Encampment Potable Water Plant

7. Standard Industrial Classification code (SIC Code) and description: 4940 Water Supply

8. Permittee and Consultant (if applicable) Contact Information:

<i>Permittee Contact Name</i> Greg Salisbury, Mayor	<i>Consultant Contact Name</i>
--	--------------------------------

<i>Company Name</i> <i>Town of Encampment</i>	<i>Company Name</i>
<i>Mailing Address</i> <i>P.O. Box 5</i>	<i>Mailing Address</i>
<i>City, State, and Zip Code</i> <i>Encampment, WY 82325</i>	<i>City, State, and Zip Code</i>
<i>Telephone Number</i> <i>307-327-5501</i>	<i>Telephone Number</i>
<i>E-Mail Address</i> <i>enccourt@yahoo.com</i>	<i>E-Mail Address</i>
<i>Preference for contact:</i> <i>Phone</i>	<i>Preference for contact:</i>

9. Status of applicant: Federal State private X public Other _____

10. Status of applicant (check more than one): X Owner Operator

11. Please include a brief description of the nature of the business conducted at this facility and principal products or services provided by the facility. The Town of Encampment Water Treatment Plant has a continuous microfiltration treatment system. To ensure the efficiency of the plant the filters are backwashed every 24 minutes. The backwash water is routed to a settling pond to settle prior to being discharged into the Encampment Irrigation Ditch.

12. Describe modification or renewal requests:

There have been no changes since the upgrade of the water plant in 2009.

13. Operational History: Date of operation or for new facilities the date of expected commencement of discharge.

2009

14. Are any cooling water additives used or expected to be used upon commencement of operations?

If so, attach MSDS sheet for each additive.

YES

X NO

15. Landowner or lessee's contact information:

<i>Landowner #1 Name</i> <i>Town of Encampment</i>	<i>Landowner #2 Name</i>
<i>Mailing Address</i> <i>P.O. Box 5</i>	<i>Mailing Address</i>
<i>City, State, and Zip Code</i> <i>Encampment, WY 82325</i>	<i>City, State, and Zip Code</i>

(additional spaces may be added as necessary)

16. Outfall location: Complete the attached Table 1.

17. Outfall Characterization: Complete the attached Table 2.

18. For applications for existing facilities, has the facility ever exceeded permit limits or water quality standards?

YES

NO

Never discharged or not constructed

If yes,

a. Which constituents? TSS

b. Has the exceedance been addressed? Yes.

c. Describe how the exceedance was addressed. Changed when the sample is taken.

19. Is discharge (check one):

Continuous

No Discharge

Intermittent and/or seasonal

If intermittent and/or seasonal, provide:

a. Number of times per year the discharge is to occur _____

b. Anticipated duration of each discharge _____

c. Anticipated flow of each discharge _____

d. Months in which discharge is expected to occur _____

20. Facility map: Attach a description and a clear, legible, detailed topographic map extending one mile beyond the property boundaries of the facility. Include the following:

a. A legend

b. Intake structures

c. Well locations where fluids from the facility are injected underground

d. Retention ponds

e. Hazardous waste treatment, storage, or disposal facilities

f. Discharge points (outfalls)

g. Immediate receiving streams

h. Water quality monitoring stations

- i. Wells, springs, other surface water bodies, drinking water wells, and surface water intake structures listed in public records, or otherwise known to the applicant in the map area.
- j. Section, Township, and Range information

21. Describe the control measures that will be implemented to prevent significant damage to or erosion of the receiving water channel at the outfall(s) _____ Concrete is in place to prevent erosion from happening. _____

22. Treatment system: Describe briefly any treatment system(s) used or to be used.

_____ The discharge water is the backwash from the Water Treatment Plant. Every 24 minutes it performs a backwash to flush organics and inorganics out of the microfiltration filters.

23. For each outfall, fill out the attached "Outfall Specific Information" on page 7. There is only one outfall.

24. Other information: Any optional information the permittee wishes to have considered:

<i>Authorized signatories for this application are the following:</i>	
<i>For corporations:</i>	<i>A principal executive officer of at least the level of vice president, or the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the overall operation of the facility from which the discharge originates.</i>
<i>For partnerships:</i>	<i>A general partner.</i>
<i>For a sole proprietorship:</i>	<i>The proprietor.</i>
<i>For a municipal, state, federal or other public facility:</i>	<i>Either a principal executive officer or ranking elected official.</i>

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.

_____ Greg Salisbury  _____ Mayor _____
 Printed Name of Person Signing Title

_____ 9-9-2014 _____
 Signature of Applicant Date

_____ 307-327-5501 _____ 307-327-5787 _____
 Telephone Fax

Section 35-11-901 of Wyoming Statutes provides that:

*All permit applications must be signed in accordance with 40 CFR Part 122.22, "for" or "by" signatures are not acceptable.

Section 35-11-901 of Wyoming Statutes provides that:

Any person who knowingly makes any false statement, representation, or certification in any application ... shall upon conviction be fined not more than \$10,000 or imprisoned for not more than one year, or both.

TABLE 1: Outfall Location Information

Desired Changes (modifications and renewals only)	Discharge Point (Outfall) #	Immediate Receiving Stream	Mainstem (closest perennial water)	Stream Distance from outfalls to mainstem (miles)	Quarter/Quarter	Section	Township	Range	Latitude (NAD 83, decimal degrees accurate to a minimum of 5 decimal places)	Longitude (NAD 83, decimal degrees accurate to a minimum of 5 decimal places)	County
	001	<i>Encampment Irrigation Ditch</i>		2'	<i>NE/NE</i>	<i>11</i>	<i>14N</i>	<i>84W</i>	<i>41°12'12.8190N</i>	<i>106°48'23.7140W</i>	<i>Carbon</i>
	002										
	003										
	004										
	005										

Additional spaces/pages may be added if necessary. Use the format provided. Please use North American Datum 1983 (NAD 83) when reporting latitudes and longitudes.

Table 2: Effluent Characteristics per outfall

- A. Existing Sources-Provide measurements for the parameters listed in the left-hand column below.
- B. New Dischargers- Provide estimates for the parameters listed in left-hand column below. Instead of the number of measurements taken, provide the source of the estimated values.

Outfall # __001__	Maximum Daily Value		Average monthly value		Number of Measurements taken (last year)	Source of Estimate (if new discharger)
	Parameter*	Mass	Concentration	Mass		
Biochemical Oxygen Demand (BOD ₅)	16		16		N/A	
Total Suspended Solids (TSS)	5		5		2	
E. coli (if believed present or if sanitary waste is discharged)		<1.0		<1.0	N/A	
Oil and grease					None visible. Clear water with no oil & grease present	Talked with Marcia and was told to do visual inspection
Total Residual Chlorine (if chlorine is used)						
**Total Organic Carbon (TOC)						
**Chemical Oxygen Demand (COD)						
Ammonia (as N)	T.1				N/A	
Flow, discharge, MGD	.015				12	
pH (range) S.U.	Max 8.63	Min 7.26	Max 8.63	Min 7.26	12	

Temperature (Winter) °C	5.4° C	9.7°C	5	
Temperature (Summer) °C	17.6°C	15.48°C	7	

**All samples must be taken in accordance to 40 CFR Part 136 and must be taken as grab samples. The pollutant levels must be reported as concentration and as total mass (except for discharge flow, pH, E.coli, and temperature). Total mass is the total weight of pollutants discharged over a day. Use the following abbreviations for units:*

Concentration		Mass	
ppm	parts per million	lbs	pounds
mg/L	milligrams per liter	ton	tons (English tons)
ppb	parts per billion	mg	milligrams
µg/L	microgram per liter	g	grams
kg	kilogram	T	tones (metric tons)

***If noncontact cooling water is discharged*

Outfall Specific Information:

Outfall # _____

For each outfall, please check the process descriptions that apply to that outfall. Use additional pages for each outfall.

1. System Information:

- One-pass, non-contact cooling water system (provide a flow estimate): _____
 - Recirculated, non-contact cooling water system (provide a flow estimate): _____
 - Closed, non-contact system
 - Open, non-contact system
 - Open, contact system
- X N/A

If "Open, contact system", option was selected, please describe a description of all areas of the cooling system that are open or where cooling water contact products or process materials.

2. If cooling water is recirculated, which types of heat exchangers are present?

- Closed-loop heat exchanger
 - Evaporative cooling tower
 - Other (please provide a description): _____
- X N/A

3. Are there any ammonia refrigeration or cooling systems that use this cooling water?

- YES X NO N/A

a. If yes, attach a description of the heat exchange system including ammonia leak detection and prevention measures.

4. Water Source Information:

- City Supply (specify the source): _____
- Well Supply (specify the source): _____
- X Surface water (specify the source): _____ North Fork of the Encampment River _____
- Other (specify the source): _____

5. Chlorination and chemical additives used:

- a. Is the water discharged chlorinated? YES X NO

b. Are there any other chemicals added? X YES NO

i. If yes, identify and attach the MSDS information __T-Floc Caustic Soda / Sodium Bisulfate_____

6. Other Sources that may contribute to the discharge:

- Floor drains
- Air compressor tank and/or air line condensation
- Boiler Blowdown
- Softener or other water treatment discharges
- Air emission scrubbers
- Condensate (Specify source): _____
- Other (Specify source): _____

a. If any of these above sources are present, please provide adequate detail in attachments.

- i. Information on the pollutant potential
- ii. Discharge flow rates
- iii. Process description
- iv. Identity of any chemical additives
- v. MSDS sheets for those additives
- vi. Measures taken to control pollutant discharges



Google earth



outfall 001



**WYOMING DEPARTMENT OF AGRICULTURE
ANALYTICAL SERVICES**

1174 Snowy Range Road, Laramie, WY 82070

Phone: (307) 742-2984



Internet: <http://wyagric.state.wy.us/divisions/asl>

E-mail: analytical.lab@wyo.gov

Town of Encampment P.O. Box 5 Encampment, Wy 82325	Sample ID : AA05546 Date Collected : 08/25/2014 07:30 Date Received : 08/25/2014 11:04 Date Completed : 08/29/2014 Sample Collector : K. BERGESON
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Phone : 307-327-5501 | Email : encpw@union-tel.com

Official or Service : Official Sample Description : Effluent	Sample Comments: pH-7.56 Water Plant Discharge Special Temperature : 13.6 °C
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Analyte	Method	Units	Results	Comments	Analyst Date Completed
TSS	SM2540D	mg/L	3.8		A DUNNING 08/26/2014

Analyte	Method	Units	Results	Comments	Analyst Date Completed
Ammonia	SM4500NH3 D	mg/L	<0.1		L MURFITT 08/29/2014

Analyte	Method	Units	Results	Comments	Analyst Date Completed
E. coli	SM9223B	MPN	<1.0		A DUNNING 08/26/2014

The laboratory will only maintain testing results for 5 years.
 Copies must be requested within 5 years of result date.

Sample Number: AA05546

Page 1 of 1

I hereby certify that the above sample was analyzed by myself or my analyst.

L MURFITT 08/29/2014

8/29/2014 3:18:11PM Mountain Standard Time

Supervisor Date

**WYOMING DEPARTMENT OF AGRICULTURE
ANALYTICAL SERVICES**

1174 Snowy Range Road, Laramie, WY 82070

Phone: (307) 742-2984



Internet: <http://wyagric.state.wy.us/divisions/as/>

E-mail: analytical.lab@wyo.gov

Town of Encampment
P.O. Box 5
Encampment, Wy 82325

Sample ID : AA05614
Date Collected : 08/28/2014 07:30
Date Received : 08/28/2014 09:57
Date Completed : 09/02/2014
Sample Collector : B. TIESZEN

Phone : 307-327-5501

Email : encpw@union-tel.com

Official or Service : Official

Sample Description : Effluent

PWS Number : WY5600060C

Sample Comments:

Encampment Water Plant Discharge

Analyte	Method	Units	Results	Comments	Analyst Date Completed
BOD	SM5210B	mg/L	16		A DUNNING 09/02/2014

The laboratory will only maintain testing results for 5 years.
Copies must be requested within 5 years of result date.

Sample Number: **AA05614**

Page 1 of 1

I hereby certify that the above sample was analyzed by myself or my analyst.

L MURFITT

09/02/2014

9/2/2014 4:39:03P Mountain Standard Time

Supervisor

Date

**THATCHER COMPANY MATERIAL SAFETY DATA SHEET****PRODUCT: T-FLOC B-135****PAGE 1 of 3**MSDS Date: July 11, 2005
Emergency Contact: 1-800-424-9300**SECTION I****PRODUCT NAME:** T-FLOC B-135**DOT SHIPPING INFORMATION:** Not DOT Regulated**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
None			

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - PHYSICAL DATA**BOILING POINT (F):** 220**SPECIFIC GRAVITY:** about 1.3**VAPOR PRESSURE (mm Hg):** Unknown**% VOLATILE, BY WEIGHT:** about 50%**VAPOR DENSITY (air = 1):** Unknown**EVAPORATION RATE:** Unknown**SOLUBILITY IN WATER:** Complete**APPEARANCE AND ODOR:** Clear to slightly hazy water-white liquid with no odor.**SECTION IV - FIRE AND EXPLOSION DATA****FLASH POINT:** Nonflammable**FLAMMABLE LIMITS:**

Lel: N/A Uel: N/A

EXTINGUISHING MEDIA:

Use any.

SPECIAL FIRE-FIGHTING PROCEDURES:

Product may decompose to Hcl in a fire. If fumes are present, firefighters should use self-contained respirators.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SECTION V - REACTIVITY DATA



THATCHER COMPANY MATERIAL SAFETY DATA SHEET

PRODUCT: T-FLOC B-135

PAGE 2 of 3

STABILITY: Stable

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS OR MATERIALS TO AVOID:

Avoid contact with alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS:

At temperatures >500 F, Hydrogen chloride gas will be liberated.

SECTION VI - HEALTH HAZARD DATA

NFPA HAZARDOUS RATING: Health = 2 Flammability = 0 Reactivity = 0

CARCINOGENIC LISTING:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact: Can cause irritation to the eyes and skin.

Ingestion: Can be harmful if swallowed, resulting in general symptoms of nausea and abdominal cramps.

SECTION VI - HEALTH HAZARD DATA (Cont'd)

STATEMENT OF PRACTICAL TREATMENT:

Contact: Immediately flush exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes. If irritation persists, consult a physician.

Ingestion: If conscious, give several glasses of water or milk. **Do not** induce vomiting. Call a physician or local Poison Control Center at once!

SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Product is mildly corrosive to iron, brass, copper, aluminum and mild steel. Store in stainless steel, plastic or plastic lined drums or tanks.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Wear safety equipment. Dike liquid and recover as much as possible into drums. If permitted, flush residue to sewer with large amounts of water.

WASTE DISPOSAL METHOD:

Not an EPA hazardous waste. Dispose of in a landfill or approved waste disposal facility. Comply with all local, state and federal regulations.



SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

None normally required.

VENTILATION:

Maintain adequate ventilation.

EYE PROTECTION:

Chemical goggles.

SKIN PROTECTION:

Rubber gloves, boots and long-sleeved shirt.

OTHER PROTECTIVE EQUIPMENT:

As needed to prevent contact with eyes and skin.

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.



SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION:

Will not occur

CONDITIONS OR MATERIALS TO AVOID:

Avoid contact with other chemicals, especially organics, metals and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide gas can form upon contact with food and beverages in an enclosed area.

SECTION VI - HEALTH HAZARD DATA

Carcinogenic Listing:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact: Corrosive. Can cause extensive burns to eyes, skin and mucous membranes. Severe contact can result in permanent blindness.

Inhalation: Vapor can cause discomfort and/or tissue damage to lungs and upper respiratory tract.

Ingestion: Highly toxic. Harmful or fatal if swallowed. Causes severe burns to the gastrointestinal system.

STATEMENT OF PRACTICAL TREATMENT:

Contact: *Immediately* flush exposed area thoroughly with water. For eyes, flush for at least 15 minutes. Obtain prompt medical assistance.

Inhalation: Remove at once to fresh air. If breathing has stopped, administer artificial respiration. Seek medical attention.

Ingestion: If conscious, give several glasses of water or milk followed by citrus juice or dilute vinegar. *Do not* induce vomiting! Call a physician or local Poison Control Center at once!



SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid all contact. Do not take internally. Do not breathe vapor. Wash thoroughly after handling. Ensure lids are tightly secured. Store in a cool, dry area.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Evacuate area. Wear proper safety equipment. Dike the liquid and recover into containers. Dilute residue with water and neutralize with dilute acid (preferably acetic acid may be used to neutralize residual traces of caustic soda). Place into containers for proper disposal. (See below).

WASTE DISPOSAL METHOD:

Waste product is an EPA hazardous waste (D002) due to corrosivity and must be disposed of at an EPA approved waste disposal facility. Contact local EPA office. Comply with all local, state and federal regulations.

OTHER PRECAUTION:

Avoid contact with aluminum, tin, strong acids, zinc and alloys.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Self-contained organic respirator must be available.

VENTILATION:

Maintain ventilation to keep TLV below 2 mg/m³.

EYE PROTECTION:

Chemical goggles, face shield.

SKIN PROTECTION:

Acid suit, rubber boots, vinyl or neoprene gloves.

OTHER PROTECTIVE EQUIPMENT:

As needed to avoid all bodily contact and breathing of vapor.



THATCHER COMPANY MATERIAL SAFETY DATA SHEET

PRODUCT: CAUSTIC SODA SOLUTION, 50%

Page 4 of 4

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

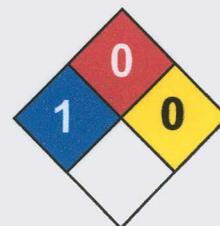
TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.



Health	1
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Sodium bicarbonate MSDS

Section 1: Chemical Product and Company Identification

Product Name: Sodium bicarbonate

Catalog Codes: SLS3241, SLS2446, SLS3868

CAS#: 144-55-8

RTECS: VZ0950000

TSCA: TSCA 8(b) inventory: Sodium bicarbonate

CI#: Not available.

Synonym: Baking Soda; Bicarbonate of soda; Sodium acid carbonate; Monosodium carbonate; Sodium hydrogen carbonate; Carbonic acid monosodium salt

Chemical Name: Sodium Bicarbonate

Chemical Formula: NaHCO₃

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Sodium bicarbonate	144-55-8	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: When heated to decomposition it emits acrid smoke and irritating fumes.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Odorless.

Taste: Saline. Alkaline.

Molecular Weight: 84.01g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Density: 2.159 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility:

Soluble in cold water. Slightly soluble in alcohol. Solubility in Water: 6.4, 7.6, 8.7, 10.0, 11.3, 12.7, 14.2, 16.5, 19.1 g/100 solution at 0, 10, 20, 30, 40, 50, 60, 80, and 100 deg. C, respectively. Solubility in Water: 6.9, 8.2, 9.6, 11.1, 12.7, 14.5, 16.5, 19.7, and 23.6 g/100g water at 0, 10, 20, 30, 40, 50, 60, 80, 100 deg. C, respectively.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials, Moisture. Stable in dry air, but slowly decomposes in moist air.

Incompatibility with various substances: Reactive with acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 3360 mg/kg [Mouse].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

Sodium Bicarbonate as produced genetic effects in rats (unscheduled DNA synthesis). However, no affects have been found in humans.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause mild skin irritation. Eyes: May cause mild eye irritation. Inhalation: May cause respiratory tract irritation. Symptoms may include coughing and sneezing. Ingestion: Symptoms of overexposure to Sodium Bicarbonate include thirst, abdominal pain, gastroenteritis, and inflammation of the digestive tract. Chronic Potential Health Effects: Skin: Repeated or prolonged skin contact may cause irritation, drying or cracking of the skin. Ingestion and Inhalation: Chronic toxicity usually occurs within 4 to 10 days following ingestion of very large amounts. Repeated or prolonged ingestion or inhalation of large amounts may cause metabolic abnormalities, and sodium retention. Metabolic abnormalities such as acidosis, hypernatremia, hyponatremia, alkalosis, hypocalcemia, or sodium retention may affect the blood, kidneys, respiration (cyanosis, apnea secondary to metabolic acidosis or pulmonary edema), and cardiovascular system (tachycardia, hypotension). Severe toxicity may also affect behavior/central nervous system/nervous system. Neurological changes may result from metabolic abnormalities. These may include fatigue, irritability, dizziness, mental confusion, paresthesia, seizures, tetany, cerebral edema. Medical Conditions Aggravated by Exposure: Persons with pre-existing skin conditions might have increased sensitivity. Predisposing conditions that contribute to a mild alkali syndrome include, renal disease, dehydration, ad electrolyte imbalance, hypertension, sarcoidosis, congestive heart failure, edema, or other sodium retaining conditions.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Sodium bicarbonate

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:26 PM

Last Updated: 05/21/2013 12:00 PM

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Marcia Porter <marcia.porter@wyo.gov>

WY0035980

1 message

Marcia Porter <marcia.porter@wyo.gov>

Mon, Nov 24, 2014 at 2:45 PM

To: enccourt@yahoo.com

Dear Applicant,

Thank you for submitting a WYPDES permit application. The application has been received by the WYPDES Program and reviewed by a member of the permit writing staff. Based on this review, your application has been determined to be **TECHNICALLY ADEQUATE** and no further information is needed at this time. Please refer to the following table for information about the public notice date for this permit. E-mail addresses and other contact information for all permit writers are included at the end of this message. If you have any questions about this review, please contact (by e-mail) the permit writer who reviewed your application. Please be sure to include the WYPDES permit number, shown below, in all correspondence regarding this application.

WYPDES PERMIT APPLICATION REVIEW—Technically Adequate Determination	
WYPDES Permit Number	WY0035980
Application Type	Renewal
Name of Applicant	Marcia Porter
Date Application Received	09-15-14
Date Application Reviewed	11-19-2014
Permit Writer Who Reviewed Application	Marcia Porter
Application Status Determination	Technically Adequate
Estimated Public Notice Date	December 17, 2014
Additional Comments	<p>The Public Notice document, including a draft of the proposed permit can be found at the following website once the permit renewal is advertised in public notice:</p> <p>http://deq.state.wy.us/wqd/events/index.asp</p> <p>From the link above scroll down the page until you come to a series of small boxes. Select the box with the December 17, 2014 to January 17, 2015 dates in it. Scroll down the public notice until you find the Town's name and click on "draft permit." Please review the draft permit while it is still in public notice.</p> <p><u>PLEASE NOTE: The draft permit will not be available on line until the actual day the public notice begins, or shortly thereafter.</u></p>

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Email to and from me, in conjunction with the transaction of public business, is subject to the Wyoming Public Records Act and may be disclosed to third parties.

