

STATE OF COLORADO

Received

Colorado Department
of Public Health
and EnvironmentBill Ritter, Jr., Governor
James B. Martin, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.
Denver, Colorado 80246-1530
Phone (303) 692-2000
TDD Line (303) 691-7700
Located in Glendale, ColoradoLaboratory Services Division
8100 Lowry Blvd.
Denver, Colorado 80230-6928
(303) 692-3090

AUG 28 2014

Water Quality Control

http://www.cdph.state.co.us

For Agency Use Only
Permit Number Assigned

CO- _____

Date Received

____/____/____
Month Day Year

INDUSTRIAL INDIVIDUAL WASTEWATER DISCHARGE PERMIT

Please print or type. Original signatures are required. All items must be completed accurately and in their entirety for the application to be deemed complete. Incomplete applications will not be processed until all information is received which will ultimately delay the issuance of a permit. If more space is required to answer any question, please attach additional sheets to the application form. Applications must be submitted by mail or hand delivered to:

**Colorado Department of Public Health and Environment
Water Quality Control Division
4300 Cherry Creek Drive South WQCD-P-B2
Denver, Colorado 80246-1530**

PHOTO COPIES, FAXED COPIES, PDF COPIES OR EMAILED COPIES WILL NOT BE ACCEPTED.

This application is for use by all **individual industrial process water dischargers to surface water, ground water or stormwater dischargers**. Discharges to ground water may occur from impoundments that are either non-discharging to surface water or discharging to surface water, land application and septic systems, whose design capacity is greater than 2000 gallons per day. The Division has industry specific permits for construction dewatering, sand and gravel, gasoline clean up sites or other groundwater remediation, hydrostatic testing, subterranean dewatering, water treatment plants, hardrock mining, coal mining, non-contact cooling water, aquatic animal production, produced water from oil and gas facilities, commercial washing of outdoor structures, along with several for stormwater only discharges. If the facility falls under one of these activities, please check the website for the appropriate application (www.coloradowaterpermits.com – click on the industrial link).

PERMIT INFORMATION

Reason for Application: ☐ NEW PERMIT☒ RENEW PERMIT EXISTING PERMIT # COG840009

This application is not for a certification under a general permit.

Applicant is: ☐ Property Owner ☒ Contractor/Operator

A. Contact Information

Permittee (If more than one please add additional pages)

Organization Formal Name: A. G. Andrikopoulos Resources, Inc.

1. **Permittee** the person **authorized to sign and certify** the permit application. This person receives all permit correspondences and is **legally responsible** for compliance with the permit.

Responsible Position (Title): Vice PresidentCurrently Held By (Person): William R. ScribnerTelephone No: 307-634-4441email address wrs-agari@bresnan.netOrganization: A. G. Andrikopoulos Resources, Inc.Mailing Address: P. O. Box 788City: Cheyenne State: WY Zip: 82003-0788This form must be signed by the Permittee to be considered complete.

Per Regulation 61: In all cases the permit application shall be signed as follows:

- In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.
- In the case of a partnership, by a general partner.
- In the case of a sole proprietorship, by the proprietor.
- In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official

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2. **DMR Cognizant Official (i.e. authorized agent)**—the person or position authorized to **sign and certify** reports required by permits including Discharge Monitoring Reports [DMR's], Annual Reports, Compliance Schedule submittals, and other information requested by the Division. The Division will send pre-printed reports (e.g. DMR's) to this person. If more than one, please add additional pages. ☒ Same as 1) Permittee

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Per Regulation 61: All reports required by permits, and other information requested by the Division shall be signed by the permittee or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(i) The authorization is made in writing by the permittee;

(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a **named individual** or any individual occupying a named position); and

(iii) The written authorization is submitted to the Division.

3. **Site/Local Contact**—contact for questions regarding the facility & discharges authorized by this permit

☐ Same as Permittee—Item 1

Responsible Position (Title): PumperCurrently Held By (Person): Larry L LysterTelephone No: 970-326-8869Email address: lysteroil@yahoo.comOrganization: Lyster OilMailing Address: 701 Road 105City: Craig State: CO Zip: 81625

4. **Operator in Responsible Charge** ☒ Same as Permittee—Item 1

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address: _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Certification Type: _____ Certification Number: _____

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5. Billing Contact (if different than the permittee)

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

6. Other Contact Types (check below) Add pages if necessary:

Responsible Position (Title): _____

Currently Held By (Person): _____

Telephone No: _____

Email address _____

Organization: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

- | | | |
|--|--|---|
| <input type="checkbox"/> Pretreatment Coordinator | <input type="checkbox"/> Inspection Facility Contact | <input type="checkbox"/> Stormwater MS4 Responsible Person |
| <input type="checkbox"/> Environmental Contact | <input type="checkbox"/> Consultant | <input type="checkbox"/> Stormwater Authorized Representative |
| <input type="checkbox"/> Biosolids Responsible Party | <input type="checkbox"/> Compliance Contact | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Property Owner | | |

B. Permitted Project/Facility Information1. Project/Facility Name Elk Springs #3 Water DisposalStreet Address or cross streets Hwy 40, Section 30: NW/4SE/4 Township 5 North, Range 98 WestCity, State and Zip Code Elk Springs Colorado County Moffat

Type of Facility Ownership

☐ City Government
 ☒ Corporation
 ☐ Private
 ☐ Municipal or Water District

☐ State Government
 ☐ Mixed Ownership _____

Legal Description

NW/4SE/4 Section 30, T. 5 N., R. 98 W., 6th P.M.

Directions from nearest major cross streets

Approximately 53.6 miles west of Craig Colorado on Hwy 40, go south for approximately 1/2 mile.

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B. Permitted Project/Facility Information continued

2. **Facility Latitude/Longitude**—List the latitude and longitude of the excavation(s) resulting in the discharge(s). If the exact excavation location(s) are not known, list the latitude and longitude of the center point of the construction project. **If using the center point, be sure to specify that it is the center point of construction activity.**

001A Latitude 40 35312 Longitude 108 44493 (e.g., 39.703°, 104.933°)
degrees (to 3 decimal places) degrees (to 3 decimal places)

or

001A Latitude ° ' " Longitude ° ' " (e.g., 39°46'11"N, 104°53'11"W)
degrees minutes seconds degrees minutes seconds

Horizontal Collection Method: ☐ GPS Unspecified ☒ Interpolation Map – Map Scale Number

Reference Point: ☐ Project/Facility Entrance ☐ Project/Facility Center/Centroid

Horizontal Accuracy Measure (WQCD Requires use of NAD83 Datum for all references) NAD83
(add additional pages if necessary)

3. Facility Activity

Standard Industrial Code (SIC Code) 13

Facility Industrial/Business Activity

Describe the primary industrial activities which take place on site. Include the type of facility (car lot, gas station parking lot, potato processing plant, etc.) plus a brief description of the nature of the business and the industrial processes used. (The applicant may want to submit a process flow sheet.) If this is a seasonal operation, list the months of operation. Indicate the number of hours per day or weeks of operation:

Producing Oil Well. Water is produced with the oil and separated out first with a free water knock out then a Heater Treater. The oil is sent to storage tanks and the water is sent through a Skimmer Tank, Filter House and then to a Settling Pond with Aerater. The maximum production from July 2013 to June 2014 is 512 bbls of oil per month and 19,500 bbls of water per month.

Production: List the principal product(s) produced (if any) and maximum production rate:

C. Discharge Information**1. Intermittent Discharges**

A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for maintenance, process change or similar shutdown. A discharge is seasonal if it occurs only during certain parts of the year.

Except for storm runoff, are any discharges intermittent or seasonal? ☐ YES ☒ NO

Describe the frequency, duration, and flow rate of each discharge occurrence, except for storm runoff, spillage, or leaks:

The water is produced with the oil which is pumped constantly with occasional down time. The well produced 327 days between July 1, 2013 and June 30, 2014. The flow is between 10 and 18.5 gallons per minute.

2. **Location Map**: A location map designating the facility property, intake points, discharge points, each of its hazardous waste treatment storage or disposal facilities, each well where fluids from the facility are injected underground, those wells, springs, other surface water bodies and drinking water wells listed in public records or otherwise known to the applicant and the receiving waters shall be submitted. The map shall extend one mile beyond the property boundaries. The map shall be from a 7½ or 15 minute USGS quad sheet, or a map of comparable scale. A north arrow shall be shown. **The map must be on paper 8.5 x 11 inches.**

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3. **Site sketch:** A legible sketch of the facility site shall be submitted and will include buildings, roads, ditches, ponds, streams, drains, sumps, impoundment(s), land application areas, any septic systems and monitoring well locations (indicate if in place or proposed). This sketch may be the same as the one in the surface water discharge permit, if no additional information is needed. **The sketch will be on 8.5 X 11 inch paper.**
4. **Water Balance:** Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item 18. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

D. Site-specific conditions:

- a) Does this facility have bulk storage of diesel fuel, gasoline, solvents, fertilizers, or other hazardous materials on site? ☒ NO ☐ YES
- b) Is this operation located within one mile of a landfill, or any mine or mill tailings? ☒ NO ☐ YES

If **YES** for **either** of these, please show location of landfill, tailings, or possible groundwater contamination on the **Location Map** or in the **Site Sketch** (See above requirements). Please explain the location, extent of contamination, possible effect on the discharges from this facility.

- Chemical treatment:** Will any flocculants (settling agents or chemical additives) be used to treat water prior to discharge? ☐ NO ☒ YES

If **YES**, list here and include the Material Safety Data Sheet (MSDS) with the application.

Chemical Name *	Manufacturer	Purpose	In Which Waste Stream?
Corrosion Inhibitor	Multi-chem	Inhibit corrosion of pipe	Produced water

* If the chemical formula is unknown or confidential, provide the manufacturer's name, contact person, address and phone number or a copy of the manufacturer's brochure, product label information or materials handling data sheet for each product used. Please list the major constituents or active ingredient(s), if known.

- Used of Manufactured toxics:** The applicant must provide a list of any constituents listed in Appendices A and B which the applicant currently uses or manufactures as an intermediate or final product or by-product. If any constituents are known to be used or manufactured and are not identified in Appendices A and B, list those as well:

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- **Flow measurement:** What method of flow measurement will be used for each discharge point (e.g., v notch weir, pump capacity, parshall flume, etc.)? Designate whether currently installed or proposed. Identify the minimum and maximum flow measurement capability.

The pumper times the fill up of a five gallon bucket at outfall 01 once a month.

- **Improvements:** Please provide a description of any abatement requirement, abatement project and projected final compliance dates if subject to any present requirements or compliance schedules for construction, upgrading or operation of waste treatment equipment. Also include here a description of any changes to the facility since the previous permit renewal.

- **Ground Water Discharge:** Indicate whether this facility has any of the following:

○ Land Application (disposal/treatment) ☐ NO ☐ YES

○ Impoundment (pond/lagoon) ☐ NO ☒ YES

○ Septic System for

Industrial Waste ☒ NO ☐ YES

Domestic Waste ☐ NO ☐ YES

- **Average flows and treatment:** Please provide a narrative identification of each type of process, operation, or production area which contributes wastewater to the effluent for each outfall including process wastewater, cooling waters, domestic wastewater and stormwater runoff; the average, maximum and design flow which each process contributes; and a description of the treatment the wastewater receives including the ultimate disposal of any solid or fluid wastes other than by discharge. Processes, operations or production areas may be described in general terms. The average flow of point sources composed of stormwater may be estimated. The basis for the rainfall event and the method of estimation must be indicated.

Use additional pages as needed

OUTFALL NUMBER	WASTEWATER SOURCE	TREATMENT USED	AVG FLOW MGD*	DESIGN ** FLOW MGD*	DAILY MAX FLOW MGD*
001	Oil Well	Separator, Heater Treater, Skimmer, Settling pond	.020909	.5	.026419

*MGD - Million gallons/day

**If sediment pond, indicate approximate volume of water.

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For each outfall to surface water or discharge to ground water, provide latitude/longitude and receiving water

OUTFALL	LATITUDE	LONGITUDE	RECEIVING WATERS* * Give Formation Name for Discharges to Ground Water
001	40.347587	108.445477	Unnamed Draw

Are the receiving waters, indicated above, a ditch or storm sewer? ☒ NO ☐ YES

If YES, submit documentation that the owner of the ditch or storm sewer allows this discharge. No permit will be processed unless documentation of approval is received.

Discharge Quality: Analytical data for the following parameters, unless waived by the Division, shall be submitted from at least one composite sampling of each surface process water discharge point as well as state waters upstream of each discharge. Instream sampling is not required if upstream flow is intermittent or representative instream data exists. See instructions. For **GROUND WATER** analyses see Appendices D and E1-3.

PARAMETER	DETECTION LEVEL	PARAMETER	DETECTION LEVEL
Total Dissolved Solids, mg/P	10	Total Recoverable Manganese, mg/l	0.05
Flow, MGD	NA	Dissolved Manganese, mg/l	0.05
pH, s.u.	NA	Total Mercury, mg/l	0.00025
Oil and Grease, mg/l	5	Total Recoverable Nickel, mg/l	0.05
Dissolved Oxygen, mg/ l	NA	Potentially Dissolved Nickel, mg/l	0.05
Alkalinity, mg/ l	10	Total Recoverable Silver, mg/l	0.0002
Total Suspended Solids, mg/ l	10	Potentially Dissolved Silver, mg/l	0.0002
Hardness, mg/ l as CaCO ₃	10	Total Recoverable Uranium, mg/l	0.03
Total Ammonia, mg/ l as N	0.05	Total Recoverable Zinc mg/l	0.05
Temperature, °C Winter	NA	Potentially Dissolved Zinc, mg/l	0.05
Temperature, °C Summer	NA	Total Residual Chlorine, mg/l	0.05
Biochemical Oxygen Demand, mg/ l	1	Fecal Coliform, #/100 ml	NA
Chemical Oxygen Demand, mg/ l	30	Nitrate, mg/l as N	0.1
Dissolved Aluminum, mg/ l	0.1	Nitrite, mg/l as N	0.002
Total Arsenic, mg/l	0.05	Sulfide mg/l as H ₂ S	0.1
Total Recoverable Cadmium, mg/l	0.0004	Boron, mg/l	0.05
Hexavalent Chromium, mg/l	0.025	Chloride, mg/l	5
Trivalent Chromium, mg/l	0.05	Sulfate, mg/l	5
Total Chromium, mg/ l	0.005	Total Cyanide, mg/l	0.01
Total Recoverable Copper, mg/ l	0.005	Total Recoverable Selenium, mg/l	0.002
Potentially Dissolved Copper, mg/l	0.005	Total Cobalt, mg/l	0.006
Total Recoverable Iron, mg/l	0.3	Gross Alpha, pCi/l	0.3
Dissolved Iron, mg/l	0.3	Total Radium 226 + 228, pCi/l	8
Total Recoverable Lead, mg/l	0.005	Total Fluoride, mg/l	0.1
Potentially Dissolved Lead, mg/l	0.005	Weak Acid Dissociable Cyanide, mg/l	0.01
Total Phenols, mg/l	0.100	Total Phosphorus, mg/l	0.05
Total Organic Nitrogen, mg/l	1.0		

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Dioxin Testing: Each applicant must report qualitative data, generated using a screening procedure not calibrated with analytical standards, for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) if it:

- (a) Uses or manufactures 2,4,5-trichlorophenoxy acetic acid (2,4,5,-T); 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5,-TP); 2-(2,4,5-trichlorophenoxy) ethyl, 2,2-dichloropropionate (Erbon); O,O-dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate (Ronnell); 2,4,5-trichlorophenol (TCP); or hexachlorophene (HCP);

or

- (b) Knows or has reason to believe that TCDD is or may be present in an effluent.

Whole Effluent Toxicity Testing and Priority Pollutant Scan for Surface Discharge Points

If you have processes in one of the following industries you must also submit the analyses specified below by a "X" in the corresponding box. The parameters for the appropriate GC/MS fraction(s) are shown in Appendix A to this application (see 40 CFR Part 122, Appendix D Table 1 for testing requirements and additional information for these specific industries). The WET testing shall be conducted on 100% effluent and be for both Ceriodaphnia dubia and fathead minnows. This requirement is waived where routine testing is currently required under an existing CDPS permit. The test shall be an acute test unless the ratio of stream low flow to effluent design flow is less than 10:1, respectively, and the receiving stream has a Class 1 or Class 2 Aquatic Life use with all the appropriate aquatic life numeric standards. In the latter case a chronic test is required. The Division reserves the right to request WET testing on industries not listed below or to request additional testing as part of the application review process. If so required, the permit application will not be considered complete until the additional information is submitted.

INDUSTRY CATEGORY	WET TESTING	GC/MS FRACTION			
		VOLATILE	ACID	NEUTRAL	PETICIDE
Adhesives and sealants	X	X	X	X	
Aluminum forming	X	X	X	X	
Auto and other laundries	X	X	X	X	X
Battery manufacturing	X	X		X	
Coil coating	X	X	X	X	
Copper forming	X	X	X	X	
Electric and electronic compounds	X	X	X	X	X
Electroplating	X	X	X	X	
Explosives manufacturing	X		X	X	
Foundries	X	X	X	X	
Gum and wood (all sub parts except D and F)	X	X	X		
Subpart D--tall oil rosin	X	X	X	X	
Subpart F--rosin-based derivatives	X	X	X	X	
Inorganic chemicals manufacturing	X	X	X	X	
Iron and steel manufacturing	X	X	X	X	
Leather tanning and finishing	X	X	X	X	
Mechanical Products manufacturing	X	X	X	X	
Nonferrous metals manufacturing	X	X	X	X	X
Organic chemicals manufacturing	X	X	X	X	X
Paint and Ink Formation	X	X	X	X	
Pesticides	X	X	X	X	X
Petroleum refining	X	X			
Pharmaceutical preparations	X	X	X	X	
Photographic equipment and supplies	X	X	X	X	
Plastic and synthetic materials manufacturing	X	X	X	X	X
Plastic processing	X	X			
Porcelain enameling	X				
Printing and publishing	X	X	X	X	X
Pulp and paperboard mills	X				
Rubber processing	X	X	X	X	
Soap and detergent manufacturing	X	X	X	X	
Steam electric power plants	X	X	X	X	
Textile mills (subpart C--Greige Mills are exempt from this table)	X	X	X	X	
Timber products processing	X	X	X	X	X
Landfills	X	X	X	X	X
Oil and gas extraction-- produced water	X	X	X	X	
Sugar processing	X	X	X	X	X
Oil Shale	X	X	X	X	

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The applicant must review Appendices A and B and must indicate whether it knows or has reason to believe that any of the pollutants listed are present in its discharge. The Division may waive the reporting requirements for individual point sources if the applicant has demonstrated that such a waiver is appropriate because information adequate to support issuance of a permit can be obtained with less stringent requirements. Each applicant must report quantitative data for each outfall containing process wastewater with the following exceptions:

- a.) For every pollutant discharged which is not so limited in an effluent limitations guideline, the applicant must either report quantitative data or briefly describe the reasons the pollutant is expected to be discharged.
- b.) For every pollutant expected to be discharged in concentrations of 10 µg/l or greater the applicant must report quantitative data. For acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4,6 dinitrophenol, where any of these four pollutants are expected to be discharged in concentrations of 100 µg/l or greater the applicant must report qualitative data. For every pollutant expected to be discharged in concentrations less than 10 µg/l, or in the case of acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4,6 dinitrophenol, in concentrations less than 100 µg/l, the applicant must either submit quantitative data or briefly describe the reasons the pollutant is expected to be discharged.
- c.) The applicant need not provide quantitative data if the pollutant is present in the discharge solely as the result of its presence in intake water. However, the applicant must report such pollutant as present.

Additional WET Testing: All applicants must identify any biological toxicity tests which have been performed within the last 3 years on any of the discharges or the receiving water in relation to a surface discharge from this facility. If this information is contained in DMRs, this step may be omitted. If there are additional tests that were not included in DMRs, then these tests must be submitted.

Activity duration: When did the activity commence? 1981 What is the estimated life of the activity from which the discharge(s) identified in item 13 originate? 10 years.

Stormwater Discharges: Please review Appendix C. Does the facility fall under any of the industries listed?

☐ NO ☒ YES

If the answer is "yes", please complete the appropriate application for coverage under the applicable stormwater general permit. Applications are available at coloradowaterpermits.com, or by contacting the Stormwater Program at 303-692-3517.

Pollution Prevention Plans: Please describe any pollution prevention or best management plans currently in place which could result in the improvement of water quality. These could include solvent recycling programs, material containment procedures, education, etc.

4 stage Skimmer Tank, Aeration of water at pond, material containment plan. The Operator respectfully requests that the WET testing be waived insofar as the water at the pond outflow disappears into the ground 150 yards from the outflow which is 14 miles from live water.

Please include any other information which you feel the Division should be aware of in drafting this permit.

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Other Environmental Permits: Does this facility currently have any environmental permits or is it subject to regulation, under any of the following programs? Mark which of the other permits/programs the facility has obtained or is in the process of obtaining or is subject to regulation under.

Under item other mark "yes" if the facility has any of the following permits:

- a.) Prevention of Significant Deterioration (PSD) program under the Clean Air Act;
- b.) Non-attainment Program under the Clean Air Act; or
- c.) National Emission Standards for Hazardous Pollutants (NESHAPS) under the Clean Air Act.
- d.) CERCLA

Permit name	Yes	No	Date applied for	Permit no.
Colorado Division of Minerals and Geology Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Underground Injection Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Dredge or Fill permit, Section 404 – Army Corps of Engineers	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Resource Conservation and Recovery Act (RCRA)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
CDPS Stormwater	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Colorado State Air Pollution Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Other <input type="text"/>	<input type="checkbox"/>			

REQUIRED SIGNATURES:

Signature of Applicant: The applicant must be either the owner and/or operator of the construction site. Refer to Part B of the instructions for additional information. The application must be signed by the applicant to be considered complete. In all cases, it shall be signed as follows: (Regulation 61.4 (1ei)

- a) In the case of corporations, by the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the form originates
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, (a principal executive officer has responsibility for the overall operation of the facility from which the discharge originates).

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Signature of **Owner** (submission must include original signature)

8/27/14

Date Signed

William R. Scribner

Vice President

Name (printed)

Title

Signature of **Applicant** (submission must include original signature)

Date Signed

Name (printed)

Title

Signature of **Operator** (submission must include original signature)

Date Signed

Name (printed)

Title

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Appendix A - Priority Pollutants

Organic Toxic Pollutants in Each of Three Fractions in Analysis by Gas Chromatography/Mass Spectroscopy(GC/MS).

Volatiles

Acrolein
 Acrylonitrile
 Benzene
 Bromoform
 Carbon Tetrachloride
 Chlorobenzene
 Chlorodibromomethane
 Chloroethane
 2-Chloroethylvinyl Ether
 Chloroform
 Dichlorobromomethane
 1,1-Dichloroethane
 1,2-Dichloroethane
 1,1-Dichloroethylene
 1,2-Dichloropropane
 1,3-Dichloropropylene
 Ethylbenzene
 Methyl Bromide
 Methyl Chloride
 Methylene Chloride
 1,1,2,2-Tetrachloroethane
 Tetrachloroethylene
 Toluene
 1,2-Trans-dichloroethylene
 1,1,1-Trichloroethane
 1,1,2-Trichloroethane
 Trichloroethylene
 Vinyl Chloride

Base/Neutral

Acenaphthene
 Acenaphthylene
 Anthracene
 Benzidine
 Benzo(a)anthracene
 Benzo(a)pyrene
 3,4-Benzofluoranthene
 Benzo(ghi)perylene
 Benzo(k)fluoranthene
 Bis(2-chloroethoxy)methane
 Bis(2-chloroethyl) ether
 Bis(2-chloroisopropyl) ether
 Bis(2-ethylhexyl)phthalate
 4-Bromophenyl phenyl ether
 Butylbenzyl phthalate
 2-Chloronaphthalene
 4-Chlorophenyl phenyl ether
 Chrysene
 Dibenzo (a,h) anthracene
 1,2-Dichlorobenzene
 1,3-Dichlorobenzene
 1,4-Dichlorobenzene
 3,3-Dichlorobenzidine
 Diethyl phthalate
 Dimethyl phthalate
 Di-n-butyl phthalate
 2,4-Dinitrotoluene
 2,6-Dinitrotoluene
 Di-n-octyl phthalate
 1,2-Diphenylhydrazine (as azobenzene)
 Fluorene
 Fluoranthene
 Hexachlorobenzene
 Hexachlorobutadiene
 Hexachlorocyclopentadiene
 Hexachloroethane
 Indeno(1,2,3-cd) pyrene
 Isophorone
 Naphthalene
 Nitrobenzene
 N-Nitrosodimethylamine
 N-Nitrosodi-n-propylamine
 N-Nitrosodiphenylamine
 Phenanthrene
 Pyrene
 1,2,4-Trichlorobenzene)

Acid

2-Chlorophenol
 2,4-Dichlorophenol
 2,4-Dimethylphenol
 4,6-Dinitro-o-cresol
 2,4-Dinitrophenol
 2-Nitrophenol
 4-Nitrophenol
 P-chloro-m-cresol
 Pentachlorophenol
 Phenol
 2,4,6-Trichlorophenol

Pesticides

Aldrin	Endosulfan Sulfate
Alpha-BHC	Endrin
Beta-BHC	Endrin Aldehyde
Gamma-BHC	Heptachlor
Delta-BHC	Heptachlor Epoxide
Chlordane	PCB-1242
4,4'-DDT	PCB-1254
4,4'-DDE	PCB-1221
4,4'-DDD	PCB-1232
Dieldrin	PCB-1248
Alpha-Endosulfan	PCB-1260
Beta-Endosulfan	PCB-1016
	Toxaphene

Metals, Cyanide, and Total Phenols

Total Recoverable Antimony
 Total Recoverable Beryllium
 Total Recoverable Thallium
 Bromide
 Color
 Sulfite
 Surfactants
 Total Magnesium
 Total Molybdenum
 Total Tin
 Total Titanium

Appendix B - Toxic Pollutants and Hazardous Substances**Toxic Pollutants**

Asbestos

Hazardous Substances

Acetaldehyde
 Allyl alcohol
 Allyl chloride
 Amyl acetate
 Aniline
 Benzonitrile
 Benzyl chloride
 Butyl acetate
 Butylamine
 Captan
 Carbaryl
 Carbofuran
 Carbon disulfide
 Chlorophyris
 Coumaphos
 Cresol
 Crotonaldehyde
 Cyclohexane
 2,4-D (2,4-Dichlorophenoxy
 acetic acid)
 Diazinon
 Dicamba
 Dichlobenil
 Dichlone
 2,2-Dichloropropionic acid
 Dichlorvos
 Diethyl amine
 Dimethyl amine
 Dinitrobenzene
 Diquat
 Disulfoton
 Diuron
 Epichlorohydrin
 Ethion
 Ethylene diamine
 Ethylene dibromide
 Formaldehyde
 Furfural
 Guthion
 Isoprene
 Isopropanolamine
 dodecylbenzenesulfonate

Kelthane
 Kepone
 Malathion
 Mercaptodimethur
 Methoxychlor
 Methyl mercaptan
 Methyl methacrylate
 Methyl parathion
 Mevinphos
 Mexacarbate
 Monoethyl amine
 Monomethyl amine
 Naled
 Naphthenic acid
 Nitrotoluene
 Parathion
 Phenolsulfanate
 Phosgene
 Propargite
 Propylene oxide
 Pyrethrins
 Quinoline
 Resorcinol
 Strontium
 Strychnine
 Styrene
 2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)

 TDE (Tetrachlorodiphenyl ethane)
 2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]

 Trichlorofan
 Triethanolamine dodecylbenzenesulfonate
 Triethylamine
 Trimethylamine
 Uranium
 Vanadium
 Vinyl acetate
 Xylene
 Xylenol
 Zirconium

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APPENDIX C - INDUSTRIES REQUIRED TO OBTAIN STORMWATER DISCHARGE PERMITS

The **Standard Industrial Classification (SIC) Code** or codes for the facility usually determines permit coverage. SIC Codes are assigned according to the primary activities performed by a company. They are often assigned for insurance purposes or when a business registers as a corporation. Industries can also determine their SIC Code by checking with their trade association, Chamber of Commerce, legal counsel, or library for the SIC Manual, or online at www.osha.gov/pls/imis/sic_manual.html.

The industries are listed here by their SIC Code. The manufacturing industries are generally represented by SIC Codes 20-39. (A two digit code, such as 42, means that **all** industries under that heading, from 4200 to 4299, are covered.) Use this table to determine which of the Division's general permits is appropriate for your facility.

SIC Code	Industry Type	Notes	Permit Type
10	Metal mining and milling, metal mining services	(a)	M
12	Coal mining, coal mining services	(a)	C, M
13	Oil and gas extraction, oil and gas services	(b)	A
14	Mining and quarrying of nonmetallic minerals except fuels (e.g., sand and gravel)	(a)	S
NA	Construction	(f)	N
20	Food and kindred products (except)	(g)	A
2011	Meat packing plants	(g)	B
2015	Poultry slaughtering and processing	(g)	B
2077	Animal and marine fats and oils	(g)	B
21	Tobacco products	(g)	A
22	Textile mills	(f) (g)	A
23	Apparel and other finished products made from fabric and similar material	(g)	A
24	Lumber and wood products except furniture (except)	(g)	A
2491	Wood preserving	(f) (g)	B
25	Furniture and fixtures	(g)	A
26	Paper and allied products	(g)	A
27	Printing, publishing, and allied products	(g)	A
28	Chemicals and allied products (except)	(f) (g)	B
283	Drugs	(f)(g)	B
285	Paints and allied products	(g)	B
29	Petroleum refining and related industries (except)	(f)	B
2951	Asphalt batch plants	(c)	A,N,S
30	Rubber and miscellaneous plastics products	(f) (g)	B
31	Leather Products (except)	(g)	A
311	Leather tanning and finishing	(f)	A
32	Stone, clay, glass and concrete products (except)	(g)	A
3241	Cement manufacturing	(f)	B
3273	Ready-mix concrete facilities	(c)	A,N,S
33	Primary metals industries	(f) (g)	B
34	Fabrication of metal products, except machinery and transportation equipment (except)	(g)	A
3441	Fabricated structural metal	(g)	A
35	Industrial and commercial machinery and computer equipment	(g)	A
36	Electronic and other electrical equipment and components, except computer equipment	(g)	A
37	Transportation equipment	(g)	A

Industrial Individual Wastewater Discharge Permit Application

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APPENDIX C

SIC Code	Industry Type	Permit Notes	Type
38	Measuring, analyzing, and controlling instruments: photographic, medical, and optical goods, watches and clocks	(g)	A
39	Miscellaneous manufacturing industries	(g)	A
40	Railroad transportation	(d) (g)	A
41	Local and suburban transit and interurban highway passenger transportation	(d) (g)	A
42	Motor freight transportation and warehousing (except)	(d) (g)	A
4221	Farm Product warehousing and storage	(g)	A
4222	Refrigerated warehousing and storage	(g)	A
4225	General warehousing and storage	(g)	A
44	Water Transportation	(d) (g)	A
45	Transportation by Air	(d) (e) (g)	A,B
4911	Steam electric power generation (all fuel types)	(f) (g)	B
4952	Wastewater treatment plants with a design flow of 1.0 MGD or more, or required to have an approved pretreatment program under 40 CFR 403	(f) (g)	A
4953	Hazardous waste treatment, storage or disposal facilities; incinerators (including boilers and industrial furnaces) that burn hazardous waste; and active or inactive landfills, land application sites, or open dumps w/industrial waste and w/o stabilized final cover	(f) (g)	B
5015	Motor vehicle parts, used		R
5093	Scrap and waste materials		R
5171	Petroleum bulk stations and terminals	(d) (g)	A

Notes:

- (a) For this SIC Code, a stormwater permit is required only if runoff contacts overburden, raw material, intermediate or finished product, or waste products.
- (b) For this SIC Code (oil and gas facilities), a stormwater permit is essentially required only the facility has had a discharge of a reportable quantity. See Colorado Discharge Permit System Regulations, Section 61.4(3)(b)(i)(C).
- (c) Facilities at sand and gravel operations may be covered under permit S; facilities at construction sites may be covered under permit N; other facilities, including mobile plants, may be covered under permit A.
- (d) For this SIC Code, only facilities with vehicle maintenance (including fueling), equipment cleaning, or airport deicing need a stormwater permit.
- (e) Airports that use 1000 gallons of deicer(s) or more annually (undiluted), and that have annual fuel sales of one million gal/year or more, are covered under permit B. Airports that do not meet these criteria need permit A.
- (f) For most facilities covered by the stormwater regulations, SIC codes are used to indicate the **primary** function of the facility. This footnote denotes industries which, in most cases, are covered under the stormwater regulations regardless of what other activities are conducted at the site (contact Division for details).
- (g) For this SIC Code, if **all** industrial activity, materials handling and storage at the facility are protected from precipitation, the facility may qualify for coverage under the No Exposure Exclusion. If that case, stormwater permit coverage would not be required. See

<http://www.cdphe.state.co.us/wq/PermitsUnit/stormwater/NoExposure.PDF>

Permit types:

- A: **Light Industry** General Permit (Permit No. COR-010000)
- B: **Heavy Industry** General Permit (Permit No. COR-020000)
- N: **Construction** General Permit (Permit No. COR-030000) (see Instructions, Item C.4)
- M: **Metal Mining** General Permit (Permit No. COR-040000)
- C: **Coal Mining** General Permit (Permit No. COG-850000)
- S: **Sand and Gravel** General Permit (Permit No. COG-500000)
- R: **Recycling Industry** General Permit (Permit No. COR-600000)

Appendix D -- GENERAL REQUIREMENTS FOR DISCHARGES TO GROUND WATER FROM**IMPOUNDMENTS, LAND APPLICATION AND SEPTIC SYSTEMS >2000 GPD**

- (1) **FACILITY MAPPING:** See Site map information in this application.
- (2) **FACILITY SKETCH:** See Sketch information in this application.
- (3) **SITE STUDIES/INFORMATION:** Provide a copy of any studies, geological reports, consultant reports, water quality analyses pertinent to your facility/site which you feel may help the Division in the development your ground-water permit. Include such reports/studies that address such areas of interest as ground-water quality analyses that establish ambient (existing ground-water quality prior to your ownership of the property), all Material Safety Data Sheets (MSDS) for each chemical used at your facility (an example MSDS is available from the Ground Water Unit), well driller's logs and pumping information of the local aquifer, any computer modelling results that have been performed for the immediate area, U. S. Geological Survey (USGS) reports for the area, etc.
- (4) **GEOLOGY/HYDROGEOLOGY OF SITE:** (a) Describe the local geology of the site. Identify and describe all lithologic units from the ground surface to the first impermeable stratigraphic unit. Provide the estimated thickness of each unit. Include a geologic map or cross sections, if necessary. Maps will be on 8.5 X 11 paper.
- (b) Describe the hydrogeology of the site. Describe in detail the relationship of this site to any alluvial or bedrock water bearing formations (unconfined, confined, or perched) and surface water (lakes, ponds, ditches or streams). Identify aquifer name or formation name for each water bearing formation and provide the depth to water (include water elevation) for each. Describe any unusual geologic or hydrologic features that could affect ground water rate of movement or direction of movement (i.e. faults, fractures).
- (c) Describe aquifer characteristics (transmissivity or permeability, porosity and storage capacity) of these water bearing formations. State the source(s) of this information.
- (d) Provide potentiometric surface (ground water level) map(s) of the water bearing formations. Document information source(s), if obtained from published data. If water levels are contoured from site data, control points must be annotated with water table elevation and time period of measurements indicated in legend. Map must be legible and no larger than 11 X 17 inches paper.
- (e) Discuss any hydrogeologic investigations or ground-water modeling conducted at this site.
- (5) **Water Quality Sampling Requirements** The Discharge Regulations have specific requirements [61.4. (7)] for effluent characterization. These requirements are listed below. In addition, the Division is requiring a ground water quality characterization, which is found in paragraph (a), below.
- (a) Each applicant must submit (i) a description of the ground water in the sample prior to filtration [i.e. clear, murky, cloudy, etc.] (ii) the below listed analytical data used to document (A) ambient ground water near the impoundment, land application and/or leach field, and (B) the upgradient ground-water quality; (iii) indicate the sample location (well # and depth) and, how sample was obtained; (iv) have the analytical laboratory indicate the method used and the detection limits of the method:

Total Coliforms
 Biochemical Oxygen Demand (BOD)
 Chemical Oxygen Demand (COD)
 Total Organic Carbon (TOC)
 Total Suspended Solids (TSS)
 Total Ammonia as N
 Temperature
 pH
 Nitrate as N

(CONTINUED ON NEXT PAGE)

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CHARACTERIZATION OF GROUND WATER
(Measured as dissolved concentration)

Sodium (Na)	Chloride (Cl)
Calcium (Ca)	Bicarbonate (HCO ₃)
Magnesium (Mg)	Sulfate (SO ₄)
Potassium (K)	Carbonate (CO ₃)
Iron (Fe)	Total Dissolved Solids

(b) Each applicant must sample, analyze and report to the Division any of the below listed pollutants he/she knows or has reason to believe may be present in the ground water below his/her property:

(i) TABLE III OF APPENDIX D, PART 122, TITLE 40 OF THE CODE OF FEDERAL REGULATIONS; OTHER TOXIC POLLUTANTS (METALS AND CYANIDE) AND TOTAL PHENOLS (UNLESS INDICATED OTHERWISE, ANALYZE THE FOLLOWING FOR THE DISSOLVED CONCENTRATION):

ANTIMONY	ARSENIC
BERYLLIUM	CADMIUM
CHROMIUM**	COPPER
LEAD	MERCURY
NICKEL	SELENIUM
SILVER	THALLIUM
ZINC	CYANIDE, WEAK ACID DISSOCIABLE
TOTAL PHENOLS	

** = If the dissolved concentration for chromium exceeds 0.1 mg/l, then an additional analysis for hexavalent chromium shall be performed

(ii) TABLE II OF APPENDIX D, PART 122, TITLE 40 OF THE CODE OF FEDERAL REGULATIONS; ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GC/MS)--CONSIDER ALL POLLUTANTS LISTED FOR EACH FRACTION INDICATED FOR YOUR INDUSTRY, AS INDICATED IN THE CHART ON PAGE 4 OF THIS APPLICATION:

The list of organic toxic pollutants in each of four fractions -"Volatiles, Base/Neutral, Acid and Pesticides" - is found in "Appendix A - Priority Pollutants". Measure the dissolved concentration for each of the parameters listed that you know or believe will be present at your facility.

(iii) TABLE V OF APPENDIX D, PART 122, TITLE 40 OF THE CODE OF FEDERAL REGULATIONS; TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES.

The list of toxic pollutants and hazardous substances is found in "Appendix B", above. Measure the dissolved concentration for each of the parameters listed that you know or believe will be present at your facility.

(c) Each applicant is required to report that 2,3,7,8 Tetrachlorobenzo-P-Dioxin (TCDD) may be in the ground water based upon whether he/she uses or manufactures one of the below listed compounds or whether he/she knows or has reason to believe that TCDD will or may be present in the soil or ground water.

- (i) 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) (CAS #93-76-5);
- (ii) 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) (CAS #93-72-1);
- (iii) 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) (CAS #136-25-4);
- (iv) 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) (CAS #299-84-3);
- (v) 2,4,5-trichlorophenol (TCP) (CAS #95-95-4); or
- (vi) Hexachlorophene (HCP) (CAS #70-30-4).

APPENDIX E-1- IMPOUNDMENTSSPECIFIC REQUIREMENTS FOR IMPOUNDMENTS

COMPLETE THIS PORTION OF THE APPLICATION FOR EACH IMPOUNDMENT AT YOUR FACILITY

1) CHECK ANY OF THE FOLLOWING THAT PERTAIN TO THIS FACILITY:

- ☐ _____(a) The impoundment(s) at this facility is(are) subject to regulation under the Uranium Mill Tailings Radiation Control Act.
- ☐ _____(b) The impoundment(s) at this facility is(are) used in the treatment, storage or recharge of raw or potable water.
- ☐ _____(c) The impoundment(s) at this facility is(are) used only for storm water retention or detention. Provide a copy of the Stormwater permit with this application, if applicable.
- ☐ _____(d) The impoundment currently has a valid certificate of designation [C.D.] (pursuant to the Solid Waste Disposal and Facilities Act, CRS 1973 30-20-101 et seq. as amended). Provide a copy of the C.D. with this application.
- ☐ _____(e) This facility has an Underground Injection Control Permit or Authorization by Rule (Safe Drinking Water Act, 42 USC 300f, et seq.). Provide a copy of the permit or authorization by rule.
- ☐ _____(f) This facility has an impoundment which is subject to the jurisdiction of one of the following State agencies:
- _____ (i) Minerals and Geology Division (formerly Mined Land Reclamation)
- _____ (ii) State Engineer's Office
- _____ (iii) Oil and Gas Conservation Commission
- _____ (iv) Hazardous Materials and Waste Management Division

If you checked any of the above State agencies, please provide, on a separate sheet of paper, the contact person's name and telephone number and all pertinent identification for your facility, as provided to you by the State agency.

- ☐ _____(g) This facility is subject to regulation under the "Confined Animal Feeding Operation Control Regulation", 4.8.0.

IF THE ONLY IMPOUNDMENT(S) AT THIS SITE IS (ARE) ONE (OR MORE) OF THE ABOVE AND LAND APPLICATION AND/OR SEPTIC SYSTEM ARE/IS NOT APPLICABLE, REFER TO "31" IN THIS APPLICATION.

2) Provide detailed plan and side view sketches of impoundment, include liner thickness (if lined) and depth to ground water.

3) Provide technical information on liner type, materials used in construction, thickness and installation.

4) Provide results of "in situ" permeability testing of the clay liner or the expected permeability of a synthetic liner for the bottom and sides of the impoundment.

APPENDIX E-2 - LAND APPLICATION**SPECIFIC REQUIREMENTS FOR LAND APPLICATION**

COMPLETE THIS PORTION OF THE APPLICATION ON SEPARATE SHEETS OF PAPER AND ATTACH THEM TO THE APPLICATION AS APPENDIX E-2

- (1) Analytical data used to document ambient ground-water quality should be submitted for the following parameters (Unless otherwise indicated, determine the dissolved concentration of each of the following):

Aluminum	Beryllium	Arsenic	Silver
Boron	Cobalt	Barium	Cadmium
Copper	Lithium	Chromium	Cyanide (Weak Acid Dissociable)
Nickel	Vanadium	Fluoride	Lead
		Mercury	Zinc
		Nitrite	Selenium
		Manganese	Color
		Copper	Corrosivity
		Foaming Agents	Odor
		Gross Alpha (excl. Radon/Uranium)	
		Beta and Photon Emitters	

- (2) Provide a description of the A and B soil horizons mapped at this site by the U. S. Soil Conservation Service.
- (3) Describe the existing vegetative cover at the site. Include plans for any proposed disturbance or planting.
- (4) Does this land application plan use the root zone for attenuation of effluent components? If so, explain in detail. Include a report of the vadose zone modelling, if performed.
- (5) Provide all information pertaining to precipitation, evapotranspiration, and infiltration for this site (supplemental irrigation, solar and wind evaporation, plant uptake, infiltration tests).
- (6) Describe the proposed rate and schedule of application and its expected effects on ground water levels.
- (7) The following parameters should be determined from soil samples taken at one foot intervals to a depth of five feet. It is preferred that these soil samples be collected in the spring. These results are to be provided to the Division, when they are available (Parameters are to be measured as Total concentrations (using the AB-DPTA extraction--Contact Jim Self at the CSU Soil Laboratory), as appropriate).

aluminum	copper	nitrate residuals	zinc
iron	nickel	ammonia residuals	
arsenic	lead	phosphorous	
cadmium	mercury	potassium	
chromium	molybdenum	selenium	

- (8) Describe the effluent storage capacity during inclement weather and/or frozen ground.

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APPENDIX E-3 - SEPTIC SYSTEMS GREATER THAN 2000 GALLONS PER DAY (GPD)

SPECIFIC REQUIREMENTS FOR SEPTIC SYSTEM >2000 GPD

FACILITY WASTESTREAM

DOMESTIC WASTE ☐ Yes ☐ No

INDUSTRIAL WASTE ☐ Yes ☐ No

Indicate "Facility Type" and indicate, below, the Design Capacity of the septic system plus whether the facility also has Impoundment(s) or Land Application associated with it.

Suggested "Facility Type"

Industrial/Domestic Wastewater: (a) Business; (b) Ski Area; (c) Campground/R.V. Park;
 (d) Motel/Hotel/Dude Ranch; (e) Community System; (f) School; (g) Church; (h) Hardrock Mining/Milling / Placer
 Mining / Coal Mining; (i) Sand and Gravel Production; (j) Construction Dewatering; (k) Ground Water Cleanup of
 Gasoline/Diesel

FACILITY TYPE _____

SEPTIC SYSTEM DESIGN CAPACITY = _____gpd

Circle the appropriate components of the septic system:

TWO STAGE SYSTEM:

FIRST STAGE

- (a) SEPTIC TANK
 (b) AERATION SYSTEM

SECOND STAGE

- (a) BED (1) PIPE & GRAVEL
 (2) GRAVELLESS CHAMBERS
 (b) TRENCH (3) GRAVELLESS PIPE

THREE STAGE SYSTEM:

FIRST STAGE

- (a) SEPTIC TANK
 (b) AERATION SYSTEM

SECOND STAGE

SAND FILTER

THIRD STAGE

- (a) BED (1) PIPE & GRAVEL
 (2) GRAVELLESS CHAMBERS
 (b) TRENCH (3) GRAVELLESS PIPE

| IMPOUNDMENT No Yes # of Impoundments _____
 LENGTH and WIDTH of each pond at water surface L_1 _____ft W_1 _____ft
 DEPTH of each pond D_1 _____ft; HORIZONTAL SLOPE of sides of pond ____:____
 (Attach extra sheets of paper as required.)

| LAND APPLICATION No Yes Type _____

If the response is "Yes" to either the impoundment or land application question, please refer to E-1 OR E-2, RESPECTIVELY.

APPENDIX F**ENVIRONMENTAL PERMIT INFORMATION**

TYPES OF PERMITS AVAILABLE FOR FACILITIES:

1. USEPA UNDERGROUND INJECTION CONTROL PERMIT;
2. COLORADO DEPARTMENT OF HEALTH STORMWATER PERMIT;
3. COLORADO DEPARTMENT OF HEALTH AIR POLLUTION EMISSION PERMIT;
4. COLORADO DIVISION OF MINERALS AND GEOLOGY PERMIT;
(Please include the mined land reclamation board permit anniversary date.)
5. RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)
 - I. RCRA SUBTITLE C HAZARDOUS WASTE:
 - i) PROVIDE YOUR RCRA EPA ID NUMBER;
 - ii) PROVIDE YOUR STATE RCRA PERMIT NUMBER;
 - iii) DO YOU NOW HAVE OR HAVE YOU IN THE PAST HAD INTERIM STATUS?
 - II. RCRA SUBTITLE D SOLID WASTE:
 - i) HAS A CERTIFICATE OF DESIGNATION (CD) FOR SOLID WASTE DISPOSAL BEEN ISSUED FOR THIS SITE?
 - ii) ARE YOU DISPOSING OF YOUR OWN WASTE ON YOUR OWN PROPERTY?
 - iii) DO YOU HAVE AN APPLICATION FOR A CD PENDING?
 - iv) IF THIS FACILITY IS A MINING OPERATION, ARE YOU DISPOSING OF MINE WASTE ON YOUR OWN PROPERTY?
 - v) HAVE YOU DONE ANY RECYCLING AT THIS SITE?
 - vi) IS THERE BENEFICIAL USE OR DISPOSAL OF BIOSOLIDS OR SEPTAGE AT THIS PROPERTY?
 - vii) IS YOUR PROPERTY USED AS A TRANSFER STATION?
 - III. RCRA SUBTITLE I UNDERGROUND STORAGE TANKS
 - i) ARE THERE EITHER ABOVE GROUND OR BELOW GROUND TANKS ON THIS PROPERTY?
 - ii) HAS THERE BEEN A RELEASE FROM THE TANK SYSTEM?--IF YES, THEN RESPOND TO "iii)".
 - iii) HAS ASSESSMENT WORK BEEN PERFORMED?--IF YES, THEN RESPOND TO "iv)".
 - iv) HAS A CORRECTIVE ACTION PLAN BEEN APPROVED OR PERFORMED?
6. URANIUM MILLS TAILINGS REMEDIAL ACTION PROGRAM (UMTRAP):
 - IS THERE A REMEDIAL ACTION PLAN PENDING OR IN PLACE AT THIS PROPERTY?
 - i) IS THERE A SURFACE DISCHARGE PERMIT?
 - ii) IS THERE AN AIR EMISSIONS PERMIT?
7. COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):
 - IS THIS PROPERTY LISTED AS A SUPER FUND SITE?

**APPENDIX G
LOCAL RESOURCES OF INFORMATION**

U.S. Geological Survey Library
Building 20
Denver Federal Center *

Telephone: 303/236-1000

U.S. Geological Survey Map Sales
Building 810
Denver Federal Center *

Telephone: 303/236-7476

* Located in Lakewood between Sixth Avenue and Alameda Boulevard,
Kipling Street and Union Boulevard

Office of the Colorado State Engineer
1313 Sherman Street
Room 818
Denver, Colorado

Telephone: 303/866-3581

Soil Survey Maps are located at:
Soil Conservation Service
655 Parfet Street
Room E 200 C
Lakewood, Colorado 80215-5517

Telephone: 303/236-2897

US EPA Region VIII
Mr. Chet Pauls
Underground Injection Control Program
999 18th St.
Suite 500
Denver, Colorado 80202-2466

Telephone: 303/293-1430

Air Pollution Control Division
Hazardous Materials and Waste Management Division
Radiation Control Division
Colorado Department of Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80222-1530

Telephone: 303/692-3100

Telephone: 303/692-3300

Telephone: 303/692-3030

Laboratory Division at the
Colorado Department of Health and Environment
4210 East 11th Avenue
Denver, Colorado 80220

Telephone: 303/691-4700

APPLICATION GENERAL INFORMATION AND INSTRUCTIONS

This application is for use by all industrial **process water dischargers to surface water, ground water or stormwater dischargers**. Discharges to ground water may occur from impoundments that are either non-discharging to surface water or discharging to surface water, land application and septic systems, whose design capacity is greater than 2000 gallons per day. The Division has industry specific permits for construction dewatering, gasoline clean up sites, water treatment plants, hardrock mining, coal mining, non-metallic metals mining and placer mining along with several for stormwater only discharges. If the facility falls under one of these activities, please contact the Division for the appropriate application. This form may be reproduced. For information on electronic copies, please contact the Permits and Enforcement Section at 692-3590.

WATER RIGHTS

The State Engineers Office (SEO) has indicated that any discharge that does not return water directly to surface waters (i.e. land application, rapid infiltration basins, etc.) has the potential for material injury to a water right. As a result, the SEO needs to determine that material injury to a water right will not occur from such activities. To make this judgement, the SEO requests that a copy of all documentation demonstrating that the requirements of Colorado water law have been met, be submitted to their office for review. The submittal should be made as soon as possible to the following address:

Colorado Division of Water Resources
1313 Sherman St. Rm 818
Denver, Colorado 80203

Should there be any questions on the issue of water rights, the SEO can be contacted at (303) 866-3581. It is important to understand that any CDPS permit issued by the Division **does not constitute a water right. Issuance of a CDPS permit does not negate the need to also have the necessary water rights in place.** It is also important to understand that even if the activity has an existing CDPS permit, this is no guarantee that the proper water rights are in place.

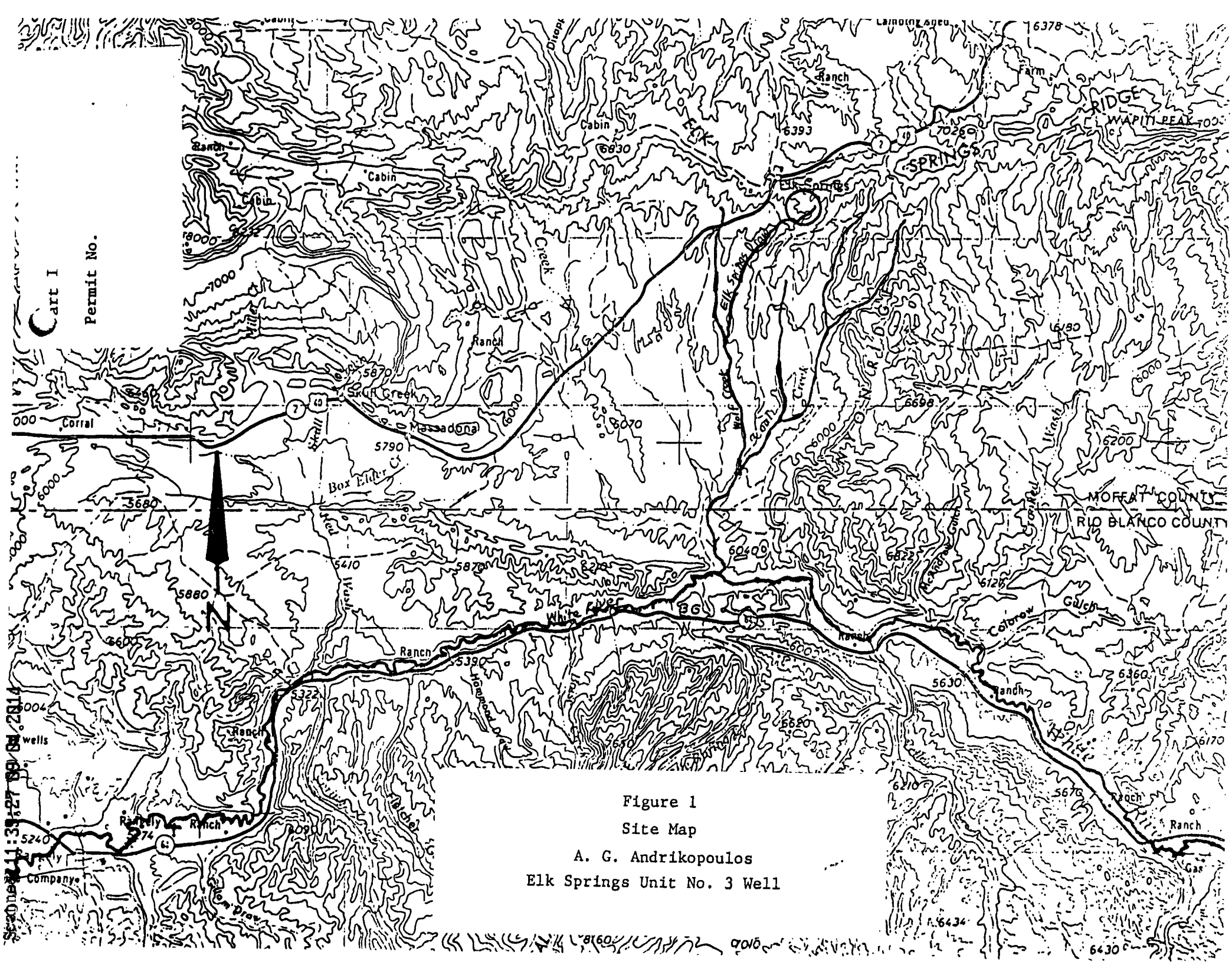


Figure 1

Site Map

A. G. Andrikopoulos

Elk Springs Unit No. 3 Well

Permit No.

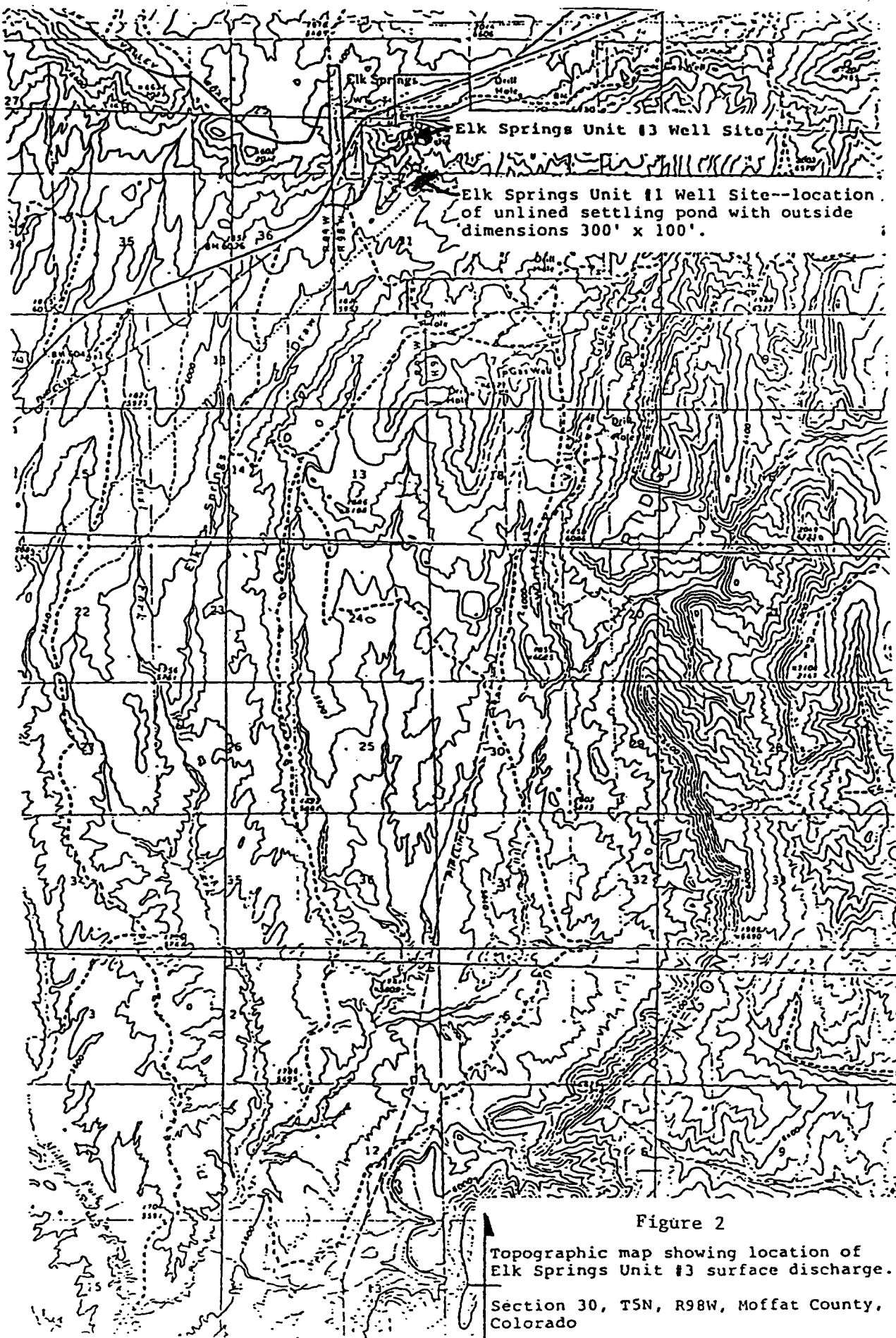


Figure 2

Topographic map showing location of
Elk Springs Unit #3 surface discharge.
Section 30, T5N, R98W, Moffat County,
Colorado

A.G. ANTIKOPoulos
ELK SPRINGS UNIT #3
NW SE SEC. 30, T5N - R9E
MOFFATT COUNTY, COLORADO
C-20279

October 21, 1985

PRODUCTION SYSTEM -- CLOSED

2. SALES BY TAX CANCE — BY TAX TRUCK

2. SEAL REQUIREMENTS:

A. PRODUCTION PHASE

(1) VALVES 1 and 2 on tanks S-S/T
1 and 2, Closed.

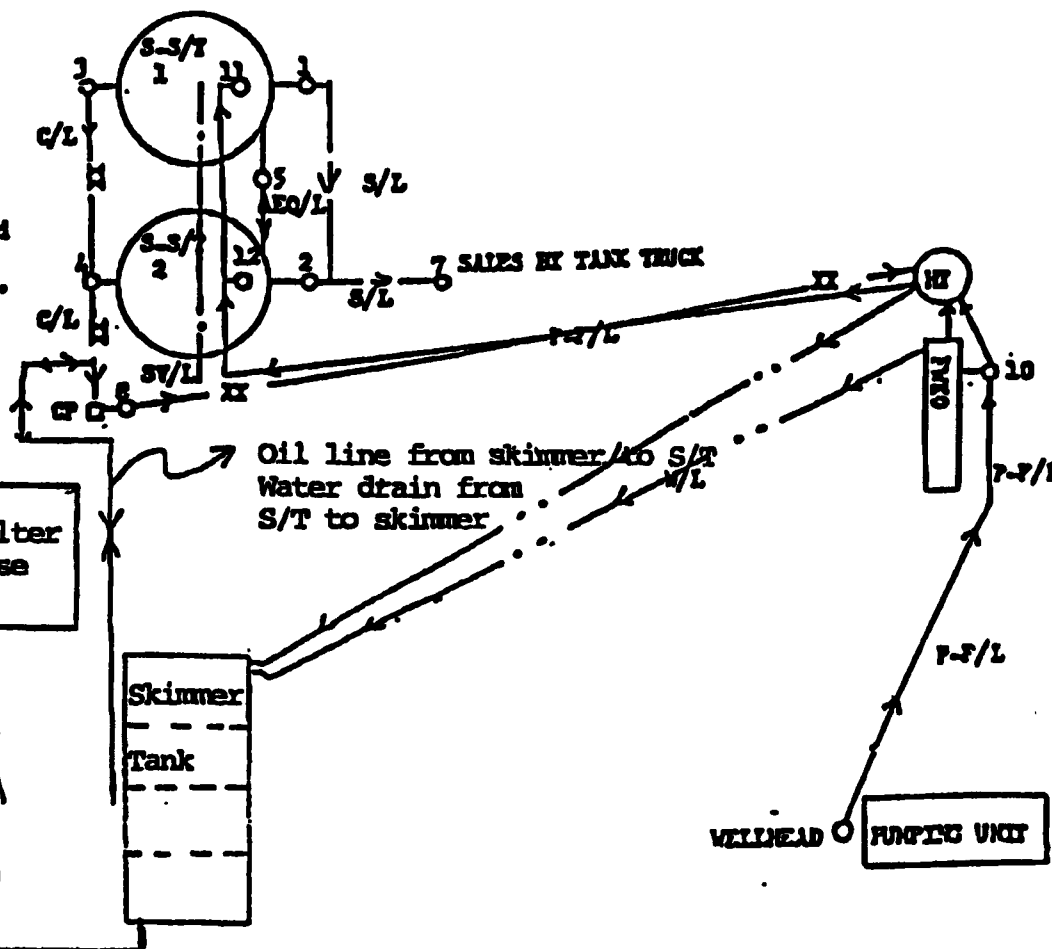
**2. SALES PHASE — SALES BEING MADE FROM
TANK 3-S/T 1.**

(1) Valve 3 on tank 3-3/7 1, closed.

(2) Valve 5 between tanks S-S/T 1 and 2. Closed.

(3) Valve 11 on tank 5-S/T 1, Closed.

(4) Valve 2 on tank S-S/T 2, closed.



NOTE: Water separated from FWKO and the HT enter the skimmer tank at 9'. Water must travel through four separate compartments then siphon off of compartment #4 to the oil water filter to coalesce and remove the microscopic oil droplets or coating on suspended particles and then siphoned to settling pond #1 where the water goes through an aerator and then be siphoned and discharged down the draw.



Material Safety Data Sheet

NFPA	HMIS

Issuing Date 14-Nov-2011 Revision Date 14-Nov-2011 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MC MX 6-2719

Product Code MC MX 6-2719

UN-No 1993

Recommended Use Corrosion Inhibitor.

Manufactured by: Multi-Chem Group LLC
2905 Southwest Blvd
San Angelo, TX 76904
Phone: 1 325 223 6200

Emergency Telephone Number 1 800 535 5053
+1 352 323 3500 (Outside United States)
613 996 6666 or *666 on a cell phone (Inside Canada Only)

2. HAZARDS IDENTIFICATION**Emergency Overview**

Combustible liquid
Irritating to eyes, respiratory system and skin
Harmful by inhalation, in contact with skin and if swallowed
Contains a known or suspected reproductive toxin
Contains a known or suspected carcinogen

Appearance	Clear to Slightly Hazy, Light Amber to Dark Amber	Physical State	Liquid	Odor	Strong
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Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Acute Toxicity

Eyes Irritating to eyes.

Skin	Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis. May be absorbed through the skin in harmful amounts.
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause additional affects as listed under "Inhalation". Ingestion of this product may cause blindness due to the presence of methanol.

Chronic Effects

Prolonged exposure may cause chronic effects. May cause an allergic skin reaction. Contains a known or suspected reproductive hazard. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Aggravated Medical Conditions

Skin disorders. Preexisting eye disorders. Neurological disorders. Respiratory disorders. Liver disorders. Kidney disorders.

Environmental Hazard

See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS**Formula**

Mixture

Chemical Name	CAS-No	Weight %
Methyl alcohol	67-56-1	7-13
Ethylene glycol	107-21-1	7-13
Phosphonomethylated Polyamine, Compound with Substituted Amine	7714	3-7
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivatives, chlorides	68909-18-2	1-5
Complex Fatty Acid Compounds	Proprietary	1-5
Complex Amine Compounds	Proprietary	1-5
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	1-5
Complex Phosphate Ester Compounds	Proprietary	1-5
2-Mercaptoethanol	60-24-2	1-5
Ethyl alcohol	64-17-5	0.1-1

Claim for Exemption Filed July 28, 2009. Registry Number: 7714. This product contains "complex mixtures" under the definition of the CPR and as such, those complex mixtures are exempt from disclosure of the chemical identity and concentration of the ingredients in that complex mixture.

4. FIRST AID MEASURES**General Advice**

Get medical attention immediately if symptoms occur.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention/advice.

Ingestion

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth. Following ingestion, onset of symptoms may be delayed by 12-24 hours. Admission to hospital should be the first priority even if symptoms are absent.

Notes to Physician

Gastric lavage or emesis should be performed as soon as possible to minimize absorption, and is recommended within 4 hours of ingestion. Ethanol may be given intravenously to prevent build up of toxic metabolites and increase hepatic elimination of methanol. Intravenous folic acid may also assist in reducing the toxic effects of methanol metabolites. Visual disturbances and metabolic acidosis may occur and dialysis, preferably hemodialysis may be employed to treat these complications. Probable mucosal damage may contraindicate the use of gastric lavage. If burn is present, treat as any thermal burn, after decontamination.

5. FIRE-FIGHTING MEASURES**Flammable Properties**

Combustible liquid.

Flash Point

44.4 °C / 112 °F

Suitable Extinguishing MediaWater spray. Foam. Dry powder. Carbon dioxide (CO₂).**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

Hazardous Combustion Products

Carbon oxides, Phosphorus oxides, Ammonia, Hydrogen chloride.

Explosion Data**Sensitivity to Mechanical Impact**

Not sensitive

Sensitivity to Static Discharge

May be ignited by heat, sparks or flames.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Health Hazard 2

Flammability 2

Stability 0

**Physical and
Chemical
Hazards** -**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Methods for Containment

Dike far ahead of liquid spill for later disposal. Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Ground and bond containers when transferring material. Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE**Handling**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition.

Storage

Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol 67-56-1	= 250 ppm STEL TWA: 200 ppm	TWA: 260 mg/m ³ TWA: 200 ppm	IDLH: 6000 ppm TWA: 260 mg/m ³ TWA: 200 ppm STEL: 325 mg/m ³ STEL: 250 ppm
Ethylene glycol 107-21-1		(vacated) Ceiling: 125 mg/m ³ (vacated) Ceiling: 50 ppm	
Phosphonomethylated Polyamine, Compound with Substituted Amine 7714			
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivatives, chlorides 68909-18-2			
Complex Fatty Acid Compounds			
Complex Amine Compounds			
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1			
Complex Phosphate Ester Compounds			
2-Mercaptoethanol 60-24-2			
Ethyl alcohol 64-17-5	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Chemical Name	Alberta	British Columbia	Saskatchewan
Methyl alcohol 67-56-1	STEL: 328 mg/m ³ STEL: 250 ppm TWA: 262 mg/m ³ TWA: 200 ppm	STEL: 250 ppm TWA: 200 ppm	TWA: 262 mg/m ³ TWA: 200 ppm STEL: 328 mg/m ³ STEL: 250 ppm
Ethylene glycol 107-21-1	Ceiling: 100 mg/m ³	STEL: 20 mg/m ³ Ceiling: 100 mg/m ³ Ceiling: 50 ppm TWA: 10 mg/m ³	Ceiling: 127 mg/m ³
Phosphonomethylated Polyamine, Compound with Substituted Amine 7714			
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivatives, chlorides 68909-18-2			
Complex Fatty Acid Compounds			
Complex Amine Compounds			
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1			
Complex Phosphate Ester Compounds			
2-Mercaptoethanol 60-24-2			
Ethyl alcohol 64-17-5	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m ³ STEL: 1250 ppm STEL: 2350 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

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Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles. Face-shield.

Skin and Body Protection

Wear protective gloves/clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures

Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to Slightly Hazy Light Amber to Dark Amber	Odor	Strong
Physical State	Liquid	pH	6.33-7.33
Flash Point	44.4 °C / 112 °F	Autoignition Temperature	No data available
Boiling Point/Range	No data available	Pour Point	-28.9 °C / -20 °F
		Flammability Limits in Air	No data available
Explosion Limits	No data available		
Specific Gravity	1.0215 - 1.0465	Solubility	Soluble in water
Evaporation Rate	No data available	Vapor Pressure	No data available
Vapor Density	No data available	Density	8.52-8.72 lbs/gal

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizing agents. Strong acids. Strong bases.
Conditions to Avoid	Heat, flames and sparks.
Hazardous Decomposition Products	Carbon oxides. Phosphorous oxides. Ammonia. Hydrogen chloride.
Hazardous Polymerization	None under normal processing.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Product Information The product itself has not been tested.

Irritation Irritating to eyes, respiratory system and skin.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Ethylene glycol	4000 mg/kg (Rat)	9530 µL/kg (Rabbit)	
Alkyl (C12-16) dimethylbenzylammonium chloride	426 mg/kg (Rat)		
2-Mercaptoethanol	244 mg/kg (Rat)	150 µL/kg (Rabbit)	
Ethyl alcohol	1501 mg/kg (Rat)		124.7 mg/L (Rat) 4 h

Chronic Toxicity

Chronic Toxicity

Prolonged exposure may cause chronic effects. May cause an allergic skin reaction. Contains a known or suspected reproductive hazard. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Carcinogenicity

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol			Known	X

Developmental Toxicity

Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.

Teratogenic Effects

Possible risk of harm to the unborn child

Target Organ Effects

Eyes, Skin, Respiratory system, Central nervous system (CNS), Liver, Kidney.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Methyl alcohol		LC50= 13200 mg/L Oncorhynchus mykiss 96 h LC50= 28100 mg/L Pimephales promelas 96 h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	
Ethylene glycol	EC50 1300 - 6500 mg/L 96 h	LC50= 16000 mg/L Poecilia reticulata 96 h LC50= 27500 mg/L Lepomis macrochirus 96 h LC50= 40761 mg/L Oncorhynchus mykiss 96 h LC50= 41000 mg/L Oncorhynchus mykiss 96 h LC50= 49000 mg/L Pimephales promelas 96 h	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	EC50 = 46300 mg/L 48 h
2-Mercaptoethanol	EC50 = 12 mg/L 72 h	LC50= 46 mg/L Leuciscus idus 96 h	EC50 = 125 mg/L 17 h	EC50 = 1.52 mg/L 48 h
Ethyl alcohol		LC50= 12900 mg/L Oncorhynchus mykiss 96 h LC50= 14.2 mg/L Pimephales promelas 96 h	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h

Chemical Name	Log Pow
Methyl alcohol	= -0.77
Ethylene glycol	= -1.93
2-Mercaptoethanol	= -0.056 25 °C
Ethyl alcohol	= -0.32

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations.

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This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Methyl alcohol	Toxic; Ignitable
Ethyl alcohol	Toxic; Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Flammable Liquids, N.O.S. (Contains Methanol and Ethylene Glycol)
Hazard Class 3
UN-No 1993
Packing Group III
ERG Code 128

IATA

UN-No 1993
Proper Shipping Name Flammable Liquids, N.O.S. (Contains Methanol and Ethanol)
Hazard Class 3
Packing Group III

IMDG/IMO

Proper Shipping Name Flammable Liquids, N.O.S. (Contains Methanol and Ethanol)
Hazard Class 3
UN-No 1993
Packing Group III

TDG

Proper Shipping Name Flammable Liquids, N.O.S. (Contains Methanol)
Hazard Class 3
UN-No 1993
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Methyl alcohol 67-56-1 (7-13)	Present	X	X	2-201	X	KE-23193	X	X
Ethylene glycol 107-21-1 (7-13)	T	X	X	2-230	X	KE-13169	X	X
Phosphonomethylated Polyamine, Compound with Substituted Amine 7714 (3-7)	-	-	-	-	-	-	-	-
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivatives, chlorides 68909-18-2 (1-5)	Present	X	X	-	X	97-3-0310	-	X
Complex Fatty Acid Compounds (1-5)	-	-	-	-	-	-	-	-
Complex Amine Compounds (1-5)	-	-	-	-	-	-	-	-
Alkyl (C12-16) dimethylbenzylammonium chloride 68424-85-1 (1-5)	Present	X	X	-	X	KE-29999	X	X

Complex Phosphate Ester Compounds (1-5)	-	-	-	-	-	-	-	-
2-Mercaptoethanol 60-24-2 (1-5)	Present	X	X	2-458	X	KE-23095	X	X
Ethyl alcohol 64-17-5 (0 1-1)	Present	X	X	2-202	X	KE-13217	X	X

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	7-13	1.0
Ethylene glycol	107-21-1	7-13	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	67-56-1	7-13	Present	Group IV		
Ethylene glycol	107-21-1	7-13	Present	Group I		

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methyl alcohol	5000 lb	
Ethylene glycol	5000 lb	

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Ethyl alcohol	64-17-5	Developmental

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	X	X	X	X	X
Ethylene glycol	X	X	X	X	X
2-Mercaptoethanol	X	X	X		
Ethyl alcohol	X	X	X		X

International Regulations**Mexico - Grade**

No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Methyl alcohol		Mexico: TWA= 260 mg/m ³ Mexico: TWA= 200 ppm

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Ethyl alcohol		Mexico: TWA= 1000 ppm Mexico: TWA= 1900 mg/m ³
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Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B3 Combustible liquid

D2A Very toxic materials

D2B Toxic materials



Chemical Name	NPRI
Methyl alcohol	X
Ethylene glycol	X

16. OTHER INFORMATION

Prepared By Amanda Burwell

Issuing Date 11/14/2011

Revision Date 14-Nov-2011

Reason for Revision Not applicable.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS