# STATE OF COLORADO

Bill Ritter, Jr., Governor James B. Martin, Executive Director

Received

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, Colorado

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

Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090 JAN 1 5 2013

Water Quality Control



Colorado Department of Public Health and Environment

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).

	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 CERT
	□ RENEW CERT
	Applicant is: ☐ Property Owner ■ Contractor/Operator
Α.	Contact Information
	Permittee (If more than one please add additional pages)
	Organization Formal Name: Ritchie Exploration, 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): Production Manager
	Currently Held By (Person): John Niernberger
	Telephone No: 316-691-9500
	email address jniernberger@ritchie-exp.com
	Organization: Ritchie Exploration, Inc.
	Mailing Address: 8100 East 22nd Street North, Suite 700
	City: Wichita State: Kansas Zip: 67226-2328
	This form <u>must be signed</u> by the Permittee to be considered complete.

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

- a) 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.
- 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 or ranking elected official

<u>Indu</u>	strial Individual Wastewater Discharge	Permit Application	coloradowaterpermits.com
2.	required by permits including Discharge	Monitoring Reports [DM ed by the Division. The	r position authorized to <b>sign and certify</b> reports IR's], Annual Reports, Compliance Schedule Division will send pre-printed reports (e.g. DMR's) to Same as 1) Permittee
	Responsible Position (Title):		
	Currently Held By (Person):		
	Telephone No:		
	Email address		
	Organization:		
	Mailing Address:		
	City:		
3.	representative only if:  (i) The authorization is made in writ  (ii) The authorization specifies eithe the regulated facility or activity such a superintendent, position of equivalent environmental matters for the compaindividual or any individual occupyin (iii) The written authorization is submoduled in the work of	ting by the permittee; or an individual or a posses as the position of plant of responsibility, or an irresponsibility, and a section of the distribution of the contraction of t	ition having responsibility for the overall operation of manager, operator of a well or a well field, advidual or position having overall responsibility for representative may thus be either a named and be facility & discharges authorized by this permit
	Mailing Address: 8100 East 22nd Stre	et North	
	City: Wichita	State: Kansas	Zip: 67226-2328
4.	Operator in Responsible Charge	Same as Per	mittee—Item 1
	Responsible Position (Title):		
	Currently Held By (Person):		
	Telephone No:		
	Email address		
	City:	State:	Zip:
	Certification Type	Certification Numb	er

Indus	trial Individual Wastewater Discharge Permit A	pplication	color	adowaterpermits.com			
5.	Billing Contact (if different than the permitte	ee)					
	Responsible Position (Title):						
	Currently Held By (Person):						
	Telephone No:						
	Email address						
	Organization:						
	Mailing Address:						
	City: State:						
6.	Other Contact Types (check below) Add p	pages if necessary:					
	Responsible Position (Title):						
	Currently Held By (Person):						
	Telephone No:						
	Email address						
	Organization:						
	Mailing Address:						
	City:	State:	_ Zip:				
	Pretreatment Coordinator	ction Facility Contact	П	Stormwater MS4 Responsible Person			
	□ Environmental Contact □ Consu	ultant	П	Stormwater Authorized			
	□ Biosolids Responsible Party □ Comp	liance Contact		Representative			
	□ Property Owner			Other			
R Pe	rmitted Project/Facility Information						
	Project/Facility Name Anderson #1 Well						
••	Street Address or cross streets Washington County Ro	ads BB and 14					
	City, State and Zip Code Near Anton, Colorado		nty Wa	ashington			
	Type of Facility Ownership  City Government Corporation Private Municipal or Water District  State Government Mixed Ownership  Legal Description						
	NE1/4 SW 1/4 Section 20, T3S, R52W						
	NE 1/4 300 1/4 Section 20, 130, 13200						
	Directions from nearest major cross streets						
	From Highway 36 one mile west of Anton	take County Road BE	3 two m	niles north to County			
	Road 14, then 1/2 mile east on County Ro	oad 14 and north into t	he site				
	,						

Inductrial Indix	zidual Wacte	ewater Dischar	as Dermit	Application
mausurai mar	viduai wasu	ewater Dischar	ge remmi.	Abblication

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B. 1	Permitt	ed Pro	ject/Facilit	y Information	continued
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	001A Latitude Longitude (e.g., 39.703°, 104.933°')  degrees (to 3 decimal places) degrees (to 3 decimal places)
	degrees (to 3 decimal places) degrees (to 3 decimal places)
	001A Latitude 39 o 46 o 47 " Longitude 103 o 13 o 45 " (e.g., 39°46'11"N, 104°53'11"W) degrees minutes seconds
Но	zontal Collection Method: 🔳 GPS Unspecified 🔲 Interpolation Map – Map Scale Number
Ref	rence Point: Project/Facility Entrance Project/Facility Center/Centroid
Hor (ad	zontal Accuracy Measure (WQCD Requires use of NAD83 Datum for all references) NAD83  I additional pages if necessary)
3. Faci	ty Activity
Sta	dard Industrial Code (SIC Code)
Fa	lity Industrial/Business Activity
	potato processing plant, etc.) plus a brief description of the nature of the business and the industrial processes us applicant may want to submit a process flow sheet.) If this is a seasonal operation, list the months of operation.
Oil a	applicant may want to submit a process now sneed, it this is a seasonal operation, list the months of operation.  at the number of hours per day or weeks of operation:  and gas production activities, including the evaporation, gravity separation, and arge of produced water.
Oil a	ate the number of hours per day or weeks of operation:  nd gas production activities, including the evaporation, gravity separation, and arge of produced water.
Oil a	ate the number of hours per day or weeks of operation:  nd gas production activities, including the evaporation, gravity separation, and
Oil a disc	ate the number of hours per day or weeks of operation:  Indigas production activities, including the evaporation, gravity separation, and arge of produced water.  Iduction: List the principal product(s) produced (if any) and maximum production rate:
Oil a disc	ate the number of hours per day or weeks of operation:  Indigas production activities, including the evaporation, gravity separation, and arge of produced water.  Iduction: List the principal product(s) produced (if any) and maximum production rate:  arrels of oil daily
Oil a disc	ate the number of hours per day or weeks of operation:  Indigas production activities, including the evaporation, gravity separation, and arge of produced water.  Iduction: List the principal product(s) produced (if any) and maximum production rate:  arrels of oil daily  ge Information  ermittent Discharges  ischarge is intermittent unless it occurs without interruption during the operating hours of the facility, exceptions are the sum of the sum of the facility, exceptions are the sum of t
Oil a disc	ate the number of hours per day or weeks of operation:  Indigas production activities, including the evaporation, gravity separation, and arge of produced water.  Iduction: List the principal product(s) produced (if any) and maximum production rate:  arrels of oil daily  ge Information  ermittent Discharges ischarge is intermittent unless it occurs without interruption during the operating hours of the facility, exchange process change or similar shutdown. A discharge is seasonal if it occurs only during certains.
Production of the part of the	ate the number of hours per day or weeks of operation:  Indigas production activities, including the evaporation, gravity separation, and arge of produced water.  Indication: List the principal product(s) produced (if any) and maximum production rate:    Comparison
Oil a disc	ate the number of hours per day or weeks of operation:  Indigas production activities, including the evaporation, gravity separation, and large of produced water.  Indication: List the principal product(s) produced (if any) and maximum production rate:    Comparison

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 7□ or 15 minute USGS quad sheet, or a map of

	ter Discharge Permit Appl north arrow shall be shown.		coloradowaterpermits.com					
comparable scale. A	north arrow shall be shown.	i ne map must be on pa	per 6.5 x 11 inches.					
ponds, streams, drain well locations (indicate	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.							
water, operations con detailed descriptions i between intakes, oper	tributing wastewater to the ef n item 18. Construct a water	fluent, and treatment unit balance on the line draw outfalls. If a water balance	facility. Indicate sources of inta its labeled to correspond to the ing by showing average flows e cannot be determined, provid any collection or treatment					
). <u>Site-specific condition</u>	<u>ns:</u>							
a) Does this faci materials on s	lity have hulk storage of dies site? NO YES	el fuel, gasoline, solvents	s, fertilizers, or other hazardous					
b) Is this operation	on located within one mile of	a landfill, or any mine or	mill tailings? 🔳 NO 🔲 YE					
	Will any flocculants (settling							
discharge? NO								
discharge? NO	YES							
discharge? NO	TES  e the Material Safety Data Sh	neet (MSDS) with the app	In Which Waste					
discharge? NO	TES  e the Material Safety Data Sh	neet (MSDS) with the app	lication.					
discharge? NO	TES  e the Material Safety Data Sh	neet (MSDS) with the app	lication.					
discharge? NO	TES  e the Material Safety Data Sh	neet (MSDS) with the app	lication.					
discharge? NO	TES  e the Material Safety Data Sh	neet (MSDS) with the app	lication.					
discharge? NO	TES  e the Material Safety Data Sh	neet (MSDS) with the app	lication.					
discharge? NO  If YES, list here and include  Chemical Name *  If the chemical formula is unknown a copy of the manufacturer's but the major constituents or active.  Used of Manufacturer	wn or confidential, provide the mochure, product label informatice ingredient(s), if known.	Purpose  Purpose  annufacturer's name, contact or materials handling dataset provide a list of any core	In Which Waste Stream?  ct person, address and phone numa sheet for each product used. Ple					
discharge? NO  If YES, list here and include  Chemical Name *  If the chemical formula is unknown a copy of the manufacturer's but the major constituents or active and B which the application.	wn or confidential, provide the mochure, product label informatice ingredient(s), if known.	Purpose  Purpose  annufacturer's name, contact or materials handling data set provide a list of any contactures as an intermediate	lication.					

• Flow weir,	idual Wastewater Disch measurement: What met oump capacity, parshall flu oum and maximum flow me	hod of flow measurement ume, etc.)? Designate who	will be used for each		e.g., v notch
Flo	w measured	using calibrat	ed containe	er and sto	op watch
final c upgra	ovements: Please provide ompliance dates if subject ding or operation of waster since the previous permit	t to any present requirement treatment equipment. Als	nts or compliance sch	edules for consti	ruction,
• <u>Grou</u>	nd Water Discharge: Ind			g:	
	<ul> <li>Land Application</li> </ul>	n (disposal/treatment)	NO YES		
	o Impoundment (	pond/lagoon)	NO YES		
	o Septic System	for			
	Industrial V	Vaste	NO YES		
	Domestic V	Vaste	NO YES		
produccoolineach produced prod	age flows and treatment: ction area which contribute g waters, domestic waster process contributes; and a sal of any solid or fluid was scribed in general terms. The asis for the rainfall event a ll pages as needed	es wastewater to the efflue water and stormwater rund description of the treatme stes other than by dischar The average flow of point s	ent for each outfall incl off; the average, maxinent the wastewater rec ge. Processes, operation sources composed of	uding process w num and design eives including to ons or production	astewater, flow which he ultimate n areas may
OUTFALL NUMBER	WASTEWATER SOURCE	TREATMENT USED	AVG FLOW MGD*	DESIGN ** FLOW MGD*	DAILY MAX FLOW MGD*
001	Oil and gas processing	gravity separation	0.029088		
			-		

<sup>\*</sup>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

Of each outlan	to surface water or discharge	e to ground water, provide latitude/long	Rude and receiving water
OUTFALL	LATITUDE	LONGITUDE	RECEIVING WATERS*  * Give Formation Name for Discharges to Ground Water
001	39 46'47"	103 13'45"	unnamed ephemeral drainage

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/ I	NA	Potentially Dissolved Nickel, mg/l	0.05
Alkalinity, mg/ l	10	Total Recoverable Silver, mg/l	0.0002
Total Suspended Solids, mg/ I	10	Potentially Dissolved Silver, mg/l	0.0002
Hardness, mg/ I as CaCO <sub>3</sub>	10	Total Recoverable Uranium, mg/l	0.03
Total Ammonia, mg/ l as N	0.05	Total Recoverable Zinc mg/l	0.05
Temperature, <sup>B</sup> C Winter	NA	Potentially Dissolved Zinc, mg/l	0.05
Temperature, <sup>®</sup> C Summer	NA	Total Residual Chlorine, mg/l	0.05
Biochemical Oxygen Demand, mg/ I	1	Fecal Coliform, #/100 ml	NA
Chemical Oxygen Demand, mg/ I	30	Nitrate, mg/l as N	0.1
Dissolved Aluminum, mg/ I	0.1	Nitrite, mg/l as N	0.002
Total Arsenic, mg/l	0.05	Sulfide mg/l as H <sub>2</sub> 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/ I	0.005	Total Cyanide, mg/l	0.01
Total Recoverable Copper, mg/ I	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, piC/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 (Ronnel); 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			
THE STATE OF THE S	WEITESTING	VOLATILE	ACID	NEUTRAL	PETICIDE
Adhesives and sealants	X	Х	X	X	
Aluminum forming	Х	X	X	X	
Auto and other laundries	х	Х	X	x	X
Battery manufacturing	Х	X	-	X	
Coil coating	X	X	X	X	
Copper forming	Х	Х	X	Х	
Electric and electronic compounds	X	X	X	X	Х
Electroplating	X	X	Tx T	X	
Explosives manufacturing	X	1	x	X	<del>                                     </del>
Foundries	X	X	1 X	Tx -	<b>†</b>
Gum and wood (all sub parts except D and F)	X	х	x		†
Subpart Dtall oil rosin	X	X	<del> </del> $\hat{x}$	Tx -	+ -
Subpart Frosin-based derivatives	X	X	X	×	+
Inorganic chemicals manufacturing	X	X	T <sub>X</sub>	X	
Iron and steel manufacturing	X	X	X	x	<b></b>
Leather tanning and finishing	T <sub>X</sub>	×	X	x	1
Mechanical Products manufacturing	X	x	X	x	<del>- </del>
Nonferrous metals manufacturing	X	×	X	x	x
Organic chemicals manufacturing	T X	x	X	x	X
Paint and ink Formation	×	<del> </del> x	X	x	
Pesticides	Tx T	l x	X	x	l x
Petroleum refining	X	<del> </del> x	+		+
Pharmaceutical preparations	1x	x	x	×	
Photographic equipment and supplies	T <sub>X</sub>	×	X	<del>  x                                   </del>	
Plastic and synthetic materials manufacturing	X	x	X	x	x
Plastic processing	X	×	+^-	<del>  ^                                   </del>	1^
Porcelain enameling	Tx T	<del>                                     </del>			-
Printing and publishing		×	<del> </del> x	x	x
Pulp and paperboard mills	×		+^-	<del> ^</del>	<del> ^</del>
Rubber processing	X	<del>x</del>	x	<del> </del> x	<del> </del>
Soap and detergent manufacturing	X	X	1 x	$\frac{\hat{x}}{x}$	+
Steam electric power plants	X	X	^ _	$\frac{1}{x}$	-
Textile mills (subpart CGreige Mills are exempt from this table)	X	X	x	<del> </del>	1
Timber products processing	X	X	1 x	<del>                                   </del>	x
Landfills	X	X	x	1 x	<del> </del> $\hat{x}$
Oil and gas extraction produced water	- x	X	î	$+\hat{x}$	1^
Sugar processing	- x	X	x	1 x	x
Oil Shale	$\frac{1}{x}$	X	1 x	$\frac{1}{x}$	+^-

Industrial Individual	Wastewater	Discharge 1	Permit Ap	plication

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### **Additional monitoring:**

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  $\mu$ g/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  $\mu$ g/l or greater the applicant must report qualitative data. For every pollutant expected to be discharged in concentrations less than 10  $\mu$ g/l, or in the case of acrolein, acrylonitrile, 2,4 dinitrophenol, and 2-methyl-4,6 dinitrophenol, in concentrations less than 100  $\mu$ g/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? What is the estimated life of the activity from which the discharge(s) identified in item 13 originate? 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.

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

Name (printed)

nder any of the following programs? Mark which rocess of obtaining or is subject to regulation und		ermits/p	programs the facility has	s obtained or is in the
Under item other mark "yes" if the facility	has any of the	followi	ng permits:	
<ul><li>a.) Prevention of Significant Deteriora</li><li>b.) Non-attainment Program under the</li><li>c.) National Emission Standards for H</li><li>d.) CERCLA</li></ul>	e Clean Air Ao	ct; or		
ermit name	Yes	No	Date applied for	Permit no.
olorado Division of Minerals and Geology ermit		×	Date applied for	1 orinic no.
ermit nderground Injection Control		×		
redge or Fill permit, Section 404 - Army Corps of ngineers		×		
esource Conservation and Recovery Act (RCRA)		×		
DPS Stormater		×		
olorado State Air Pollution Program		×		
REQUIRED SIGNATURES: ignature of Applicant: The applicant must be either the instructions for additional information. The complete. In all cases, it shall be signed as a) In the case of corporations, by the responsable facility from which the discharge describe	ne application <u>ne</u> follows: (Reginstible corporated in the form of	nust be s ulation 6 e officer	<u>signed</u> by the applicant to 1.4 (1ei) is responsible for the ovel	be considered
complete. In all cases, it shall be signed as a) In the case of corporations, by the response	the owner and/ ne application not follows: (Reg- nsible corporated in the form of partner. le proprietor. public facility, responsibility for ally examined my inquiry of the accurate and	nust be sulation 6 e officer originates for the overand among indicates indicates and among electrical completes.	signed by the applicant to 1.4 (1ei) is responsible for the over a principal executive office a principal executive office a principal executive office and the facility of th	be considered rall operation of the cer, ranking elected lity from which the on submitted in this onsible for obtaining
REQUIRED SIGNATURES: ignature of Applicant: The applicant must be either the instructions for additional information. The complete. In all cases, it shall be signed as a) In the case of corporations, by the respondacility from which the discharge describes b) In the case of a partnership, by a general color the case of a sole proprietorship, by the d) In the case of a municipal, state, or other official, (a principal executive officer has discharge originates).  "I certify under penalty of law that I have personapplication and all attachments and that, based on the information, I believe that the information is true	the owner and/ ne application not follows: (Reginsible corporated in the form of partner. The proprietor. The proprietor facility, responsibility to hally examined my inquiry of the accurate and the possibility	nust be sulation 6 e officer originates for the overand among indicates indicates and among electrical completes.	signed by the applicant to 1.4 (1ei) is responsible for the over a principal executive officerall operation of the facilifamiliar with the informatic viduals immediately response. I am aware that there is r imprisonment.	be considered rall operation of the cer, ranking elected lity from which the on submitted in this onsible for obtaining
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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** Base/Neutral Acrolein Acenaphthene Acrylonitrile Acenaphthylene Anthracene Benzene Bromoform Benzidine Carbon Tetrachloride Benzo(a)anthracene Chlorobenzene Benzo(a)pyrene 3,4-Benzofluoranthene Chlorodibromomethane Chloroethane Benzo(ghi)perylene Benzo(k)fluoranthene 2-Chloroethylvinyl Ether Chloroform Bis(2-chloroethoxy)methane Bis(2-chloroethyl) ether Dichlorobromomethane 1,1-Dichloroethane Bis(2-chloroisopropyl) ether 1.2-Dichloroethane Bis(2-ethylhexyl)phthalate 1.1-Dichloroethylene 4-Bromophenyl phenyl ether Butvlbenzyl phthalate 1.2-Dichloropropane 1,3-Dichloropropylene 2-Chloronaphthalene Ethylbenzene 4-Chlorophenyl phenyl ether Methyl Bromide Chrysene Methyl Chloride Dibenzo (a.h) anthracene Methylene Chloride 1.2-Dichlorobenzene 1,1,2,2-Tetrachloroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Tetrachloroethylene Toluene 3.3-Dichlorobenzidine 1,2-Trans-dichloroethylene Diethyl phthalate Dimethyl phthalate 1.1.1-Trichloroethane 1,1,2-Trichloroethane Di-n-butyl phthalate Trichloroethylene 2.4-Dinitrotoluene Vinvl Chloride

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

Pheno!

2,4,6-Trichlorophenol

2.6-Dinitrotoluene Di-n-octyl phthalate 1,2-Diphenylhydrazine (as azobenzene) Fluorene

Fluoranthene Hexachlorobenzene Hexachlorobutadiene Hexachlorcyclopentadiene Hexachloroethane Indeno(1.2.3-cd) pyrene

Isophorone Naphthalene Nitrobenzene

N-Nitrosodimethylamine N-Nitrosodi-n-propylamine N-Nitrosodiphenylamine

Phenanthrene Pyrene

1,2,4-Trichlorobenzene)

### **Pesticides**

#### **Endosulfan Sulfate** Aldrin Alpha-BHC Endrin Beta-BHC Endrin Aldehyde Gamma-BHC Heptachlor Delta-BHC Heptachlor Epoxide PCB-1242 Chlordane 4,4'-DDT PCB-1254 4,4'-DDE PCB-1221 PCB-1232 4,4'-DDD 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 Thailium **Bromide** Color Sulfite Surfactants **Total Magnesium** Total Molybdenum

Total Tin Total Titanium

### Appendix B - Toxic Pollutants and Hazardous Substances

### **Toxic Pollutants**

### **Asbestos**

### **Hazardous Substances**

Kelthane Acetaldehyde Allyl alcohol Kepone Allyl chloride Malathion Amyl acetate Mercaptodimethur Aniline Methoxychlor Benzonitrile Methyl mercaptan Benzyl chloride Methyl methacrylate Butyl acetate Methyl parathion Butylamine Mevinphos Captan Mexacarbate Carbaryl Monoethyl amine Carbofuran Monomethyl amine Carbon disulfide Naled Chlorphyrifos Naphthenic acid

Chlorphyrifos
Coumaphos
Nitrotoluene
Cresol
Parathion
Crotonaldehyde
Cyclohexane
2,4-D (2,4-Dichlorophenoxy acetic acid)
Nitrotoluene
Parathion
Phenolsulfanate
Phosgene
Propargite
Propylene oxide

Diazinon Pyrethrins
Dicamba Quinoline
Dichlobenil Resorcinol
Dichlone Strontium
2,2-Dichloropropionic acid Strychnine

Dichlorvos Styrene
Diethyl amine 2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)

Dimethly amine

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

Disulfoton

Diuron Trichlorofan
Epichlorohydrin Triethanolamine dodecylbenzenesulfonate

Ethion Triethylamine
Ethylene diamine Trimethylamine
Ethylene dibromide Uranium
Formaldehyde Vanadium
Furfural Vinyl acetate
Guthion Xylene
Isoprene Xylenol

Isopropanolamine Zirconium dodecylbenzenesulfonate

# Industrial Individual Wastewater Discharge Permit Application coloradowaterpermits.com 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.

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

Industrial Individual Wastewater Discharge Permit Application	coloradowaterpermits.com			
APPENDIX C				

SIC		Permit	
Code	Industry Type	Notes	Туре
38	Measuring, analyzing, and controlling instruments: photographic, medical, and optical goods, watches and clocks	(g)	Α
39	Miscellaneous manufacturing industries	(g)	Α
40	Railroad transportation	(d) (g)	Α
41	Local and suburban transit and interurban highway passenger transportation	(d) (g)	Α
42	Motor freight transportation and warehousing (except)	(d) (g)	Α
4221	Farm Product warehousing and storage	(g)	Α
4222	Refrigerated warehousing and storage	(g)	Α
4225	General warehousing and storage	(g)	Α
44	Water Transportation	(d) (g)	Α
45	Transportation by Air	(d) (e) (g)	A,B
4911	Steam electric power generation (all fuel types)	(f) (g)	В
4952	Wastewater treatment plants with a design flow of 1.0 MGD or more,	(f) (g)	Α
	or required to have an approved pretreatment program under 40 CFR 4	103	
4953	Hazardous waste treatment, storage or disposal facilities; incinerators (include	ling(f) (g)	В
	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
5015	Motor vehicle parts, used		R
5093	Scrap and waste materials		R
5171	Petroleum bulk stations and terminals	(d) (g)	Α

### 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/wg/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)

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# 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) <u>SITE STUDIES/INFORMATION</u>: 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) <u>GEOLOGY/HYDROGEOLOGY OF SITE</u>: (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) <u>Water Quality Sampling Requirements</u> 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)
Calcium (Ca)
Magnesium (Mg)
Potassium (K)
Iron (Fe)
Calcium (Ca)
Bicarbonate (HCO<sub>3</sub>)
Sulfate (SO<sub>4</sub>)
Carbonate (CO<sub>3</sub>)
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, ANLYZE 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** 

(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).

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

# Industrial Individual Wastewater Discharge Permit Application APPENDIX E-1- IMPOUNDMENTS

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# SPECIFIC 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:
<ul> <li>(a)The impoundment(s) at this facility is(are) subject to regulation under the Uranium Mill Tailings Radiation Control Act.</li> </ul>
<ul> <li>(b) The impoundment(s) at this facility is(are) used in the treatment, storage or recharge of raw or potable water.</li> </ul>
<ul> <li>(c)The impoundment(s) at this facility is(are) used only for storm water retention or detention.</li> <li>Provide a copy of the Stormwater permit with this application, if applicable.</li> </ul>
(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.
<ul> <li>(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.</li> </ul>
(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.

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# **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).

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

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

# <u>Industrial Individual Wastewater Discharge Permit Application</u> <u>coloradowaterpermits.com</u> APPENDIX E-3 - SEPTIC SYSTEMS GREATER THAN 2000 GALLONS PER DAY (GPD)

# SPECIFIC REQUIREMENTS FOR SEPTIC SYSTEM > 2000 GPD

FACILITY WASTESTREAM				
DOMESTIC WASTE	□ No			
INDUSTRIAL WASTE	□ Yes □ No			
Indicate "Facility Type" and ind also has Impoundment(s) or La	icate, below, the Design and Application associate	Capacity of the septic system plus whether the facility ed 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 CA	APACITY =	gpd		
Circle the appropriate compone	ents of the septic system:	:		
TWO STAGE SYSTEM: FIRST STAGE	(a) SEPTIC TANK (b) AERATION SYSTE	EM		
SECOND STAGE	(a) BED	(1) PIPE & GRAVEL (2) GRAVELLESS CHAMBERS		
	(b) TRENCH	(3) GRAVELLESS CHAMBERS (3) GRAVELLESS PIPE		
THREE STAGE SYSTEM: FIRST STAGE	(a) SEPTIC TANK (b) AERATION SYSTE	E <i>M</i>		
SECOND STAGE	SAND FILTER			
THIRD STAGE	(a) BED	(1) PIPE & GRAVEL (2) GRAVELLESS CHAMBERS		
	(b) TRENCH	(3) GRAVELLESS PIPE		
DEPTH of each pond $D_1$ ft; HORIZONTAL SLOPE of sides of pond: (Attach extra sheets of paper as required.)				
LAND APPLICATION No Ye	es Type			

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

Revised 4-2011

#### **APPENDIX F**

### **ENVIRONMENTAL PERMIT INFORMATION**

## TYPES OF PERMITS AVAILABLE FOR FACILITIES:

- USEPA UNDERGROUND INJECTION CONTROL PERMIT;
- 2. COLORADO DEPARTMENT OF HEALTH STORMWATER PERMIT;
- COLORADO DEPARTMENT OF HEALTH AIR POLLUTION EMISSION PERMIT:
- 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
    - 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) HÁS 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 EMISSSIONS PERMIT?
- 7. COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):

IS THIS PROPERTY LISTED AS A SUPER FUND SITE?

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### APPENDIX G LOCAL RESOURCES OF INFORMATION

U.S. Geological Survey Library

Building 20

Denver Federal Center \*

U.S. Geological Survey Map Sales

**Building 810** 

Denver Federal Center \*

Telephone: 303/236-7476

Telephone: 303/236-1000

Telephone: 303/866-3581

Telephone: 303/692-3030

\* 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

Soil Survey Maps are located at:

Soil Conservation Service Telephone: 303/236-2897

655 Parfet Street Room E 200 C

Lakewood, Colorado 80215-5517

US EPA Region VIII Telephone: 303/293-1430

Mr. Chet Pauls

Underground Injection Control Program

999 18th St. Suite 500

Denver, Colorado 80202-2466

Air Pollution Control Division Telephone: 303/692-3100
Hazardous Materials and Waste Management Division Telephone: 303/692-3300

Radiation Control Division

Colorado Department of Health and Environment

4300 Cherry Creek Drive South

Denver, Colorado 80222-1530

Laboratory Division at the Telephone: 303/691-4700

Colorado Department of Health and Environment 4210 East 11th Avenue

Denver, Colorado 80220

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### APPLICATION GENERAL INFORMATION AND INSTRUCTIONS

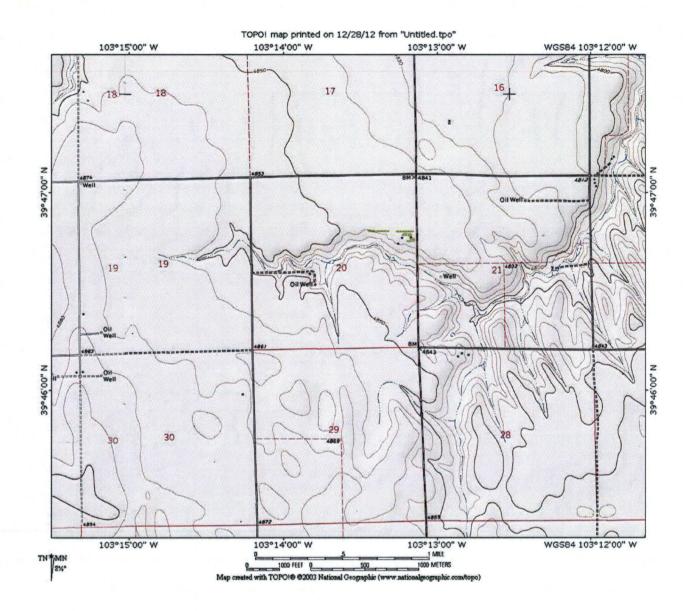
This application is for use by all industrial process water dischargers to surface water, ground water or stormwater dischargers. Discharges to ground water may occur from impoundments that are either non-discharging to surface water or discharging to surface water, land application and septic systems, 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.



# **EXHIBIT C**

Attached to MINDI Application Submitted By Ritchie Exploration, Inc.

# Site Sketch

Anderson #1 NE/4 SW/4 Sec. 20 T3S R52W Washington County, Colorado

DRAWING NOT TO SCALE

