Return to: Oklahoma Department of Environmental Quality

Industrial Permits Section

Water Quality Division 707 N. Robinson P.O. Box 1677 Oklahoma City, OK 73101-1677

Oklahoma DEQ

Application for Permit to Discharge Industrial Wastewater

Form 2D - Wastewater Discharge Information: New Manufacturing, Commercial, and Mining Operations

PLEASE DETACH THESE INSTRUCTIONS AND RETURN ONLY THE COMPLETED APPLICATION FORMS THEMSELVES.

This form must be completed by all persons applying for a permit to discharge industrial wastewater from new manufacturing, commercial, and mining operations. This form must be completed in addition to Form 1 and any other applicable forms.

See Form 1, Attachment 1 for instructions for the submittal of applications and the public notice requirements.

This form must be completed by all applicants who check "yes" to Item B-3 in Form 1.

Your application will not be considered complete unless you answer every question on this form and on any other required forms. If an item does not apply to you, enter "NA" (for not applicable) to show that you considered the question.

Public Availability of Submitted Information

You may not claim as confidential any information required by this form or by any other required forms, whether the information is reported on the forms or in an attachment. This information will be made available to the public upon request.

Any information you submit to DEQ which goes beyond that required by this or any other forms you may claim as confidential, but claims for information which is effluent data will be denied. If you do not assert a claim of confidentiality at the time of submitting the information, DEQ may make the information public without further notice to you. Claims of confidentiality will be handled in accordance with the Oklahoma Public Records Act.

Definitions

All significant terms used in these instructions and in Form 2D are defined in the glossary found in the General Instructions to Form 1.

Item A

Enter the facility's official or legal name. Do not use a colloquial name.

Item B

Give the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by reviewing offices if necessary.

Item C

For each outfall, list the legal description (¼, ¼, ¼, Section, Township, Range) to the nearest 10 acres, latitude and longitude, and the name of the receiving water. Use the previous NPDES permit for numbering each outfall.

Item D-1

The line drawing should show generally the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and stormwater runoff. You may group similar operations into a single unit, labeled to correspond to the more detailed listing in Item D-2. The water balance should show average flows. Show all significant losses of water to products, atmosphere, and discharge. You should use actual measurements whenever available; otherwise use your best estimate. An example of an acceptable line drawing appears in Figure 2D-1 to these instructions.

You may use the same drawing to fulfill the requirements of Item D-1 in Form 2C or Item D-1 in Form 2D and Item G-1 in Form 2SI, provided the drawing shows **both** outfalls **and** surface impoundments.

Item D-2

List all sources of wastewater to each outfall. Operations may be described in general terms *(for example, "dye-making reactor" or "distillation tower")*. You may estimate the flow contributed by each source if no data are available. For stormwater discharges you may estimate the average flow, but you must indicate the rainfall event upon which the estimate is based and the method of estimation. For each treatment unit, indicate its size, flow rate, and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order.

Item D-3

A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year. Fill in every applicable column of this item for each source of intermittent or seasonal discharges. Base your answers on actual data whenever available; otherwise, provide your best estimate. Report the highest daily value for flow rate and total volume in the "Maximum Daily" columns. Report the average of all daily values measured during days when discharge occurred within the last year in the "Long Term Average" columns.

Item E-1

All effluent guidelines and New Source Performance Standards (NSPS) promulgated by EPA appear in the Federal Register and are published annually in 40 CFR Subchapter N. A guideline applies to you if you will have any operations contributing process wastewater in any subcategory covered by a BPT, BCT, or BAT guideline, or New Source Performance Standard (NSPS). If you are unsure whether you are covered by a promulgated effluent guideline or NSPS, contact DEQ. You must check "Yes" if an applicable effluent guideline or NSPS has been promulgated, even if the guideline limitations or NSPS are being contested in court. If you believe that a promulgated effluent guideline or NSPS has been remanded for reconsideration by a court and does not apply to your operation, you may check "No".

Item E-2

An effluent guideline or NSPS is expressed in terms of production (or other measure of operation) if the limitation or standard is expressed as mass of pollutant per operational parameter; for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace". An example of a guideline or NSPS not expressed in terms of a measure of operation is one which limits the concentration of pollutants.

Item E-3

This item must be completed only if you checked "Yes" to Item E-2. The production information requested here is necessary to apply effluent guidelines or NSPS to your facility and you cannot claim it as confidential. "Production" in this question refers to those goods which the proposed facility will produce, not to "wastewater" production. Your estimated production figures should be based on a realistic projection of actual daily production level (not design capacity) for each of the first three operating years of the facility. This estimate must be a long term average estimate (*e.g., average production on an annual basis*). If production will vary depending on long term shifts in operating schedule or capacity, the applicant may report alternate production estimates and the basis for the alternate estimates.

If known, report quantities in the units of measurement used in the applicable NSPS or effluent guideline. For example, if the applicable NSPS is expressed as "grams of pollutant discharged per kilogram of unit production," then report maximum "Quantity Per Day" in kilograms. If an effluent guideline or NSPS specifies a method for estimating production, that method must be followed.

There is no need to conduct new studies to obtain these figures; only data already on hand are required. You are not required to indicate how the reported information was calculated.

Items F-1, -2, -3, and -4

These items require you to estimate and report data on the pollutants expected to be discharged from each of your outfalls. Where there is more than one outfall, you should submit a separate Item F for each outfall. For Part 3, only a list is required. Sampling and analysis are not required at this time. If, however, data from such analyses are available, then that data should be reported. Each part of this item addresses a different set of pollutants or parameters and must be completed in accordance with the specific instructions for that part. The following are the general and specific instructions for Items F-1 through F-3.

General Instructions

Each part of this item requires you to provide an estimated maximum daily and average daily value for each pollutant or parameter listed (see Table 2D-1), according to the specific instructions below. The source of the data is also required.

For Parts 1 through 3, base your determination of whether a pollutant will be present in your discharge on your knowledge of the proposed facility's raw materials, maintenance chemicals, intermediate and final products, byproducts, and any analyses of your effluent or of any similar effluent. You may also provide the determination and the estimates based on available in-house or contractor's engineering reports or any other studies performed on the proposed facility (see Item F of the form). If you expect a pollutant to be present solely as a result of its presence in your intake water, please state this information on the form.

Please note that no later than 2 years after you begin discharging from the proposed facility, you must complete and submit Items F and G of DEQ application Form 2C (follow-up data).

Reporting Intake Data. You are not required to report pollutants or parameters present in intake water unless you wish to demonstrate your eligibility for a "net" effluent limitation for these pollutants or parameters, that is, an effluent limitation adjusted to provide allowance for the pollutants or parameters present in your intake water. If you wish to obtain credits for pollutants or parameters present in your intake water, please insert a separate sheet, with a short statement of why you believe you are eligible (see 40 CFR §122.45(g)), under Item G (Other Information). You will then be contacted by the permitting authority for further instructions.

All estimated pollutant or parameter levels must be reported as concentration and as total mass, except for discharge flow, temperature, and pH. Total mass is the total weight of pollutants or parameters discharged over a day.

Use the following abbreviations for units:

Concentration	Mass
ppm parts per million	lbs pounds
mg/l milligrams per liter	tontons (English tons)
ppb parts per billion	mgmilligrams
ug/l micrograms per liter	g grams
	kgkilograms
	Ttonnes (metric tons)

Source: In providing the estimates, use the following sources to indicate the origin of such information:

- (1) Engineering study,
- (2) Actual data from pilot plants,
- (3) Estimates from other engineering studies,
- (4) Data from other similar plants,
- (5) Best professional estimates, or
- (6) Other

Item F-1

Estimates of data on pollutants or parameters in Group A must be reported by all applicants for all outfalls, including outfalls containing only non-contact cooling water or non-process wastewater.

To request a waiver from reporting any of these pollutants or parameters, the applicant must submit to the Department a written request specifying which pollutants or parameters should be waived and the reasons for requesting such a waiver. This request should be submitted to the Department before or with the permit application. The Department may waive the requirements for information about these pollutants or parameters if the reviewer determines that less stringent reporting requirements are adequate to support issuance of the permit. No extensive documentation will normally be needed, but the applicant should contact the Department if she or he wishes to receive instructions on what his or her particular request should contain.

Item F-2

Estimates of data on pollutants in Group B must be reported by all applicants for all outfalls, including outfalls containing only non-contact cooling water or stormwater runoff. You are merely required to report estimates for those pollutants which you know or have reason to believe will be discharged or which are limited directly by an effluent limitations guideline (or NSPS) or indirectly through promulgated limitations on an indicator pollutant. The priority pollutants in Group B are divided into the following three sections:

- (1) Metal toxic pollutants, total cyanide, and total phenols
- (2) 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD)
- (3) Organic Toxic Pollutants (GC/MS fractions):
 - (a) Volatile compounds
 - (b) Acid compounds
 - (c) Base/neutral compounds
 - (d) Pesticides

For pollutants listed in Sections 1 and 3, you must report estimates as instructed above.

For Section 2, you are required to report that TCDD may be discharged if you will use or manufacture one of the following compounds, or if you know or have reason to believe that TCDD is or may be present in an effluent:

- A. 2,4,5-trichlorophenoxy acetic acid (2,4,5-T)
- B. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4, 5TP)
- C. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon)
- D. 0,O-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel)
- E. 2,4,5-trichlorophenol (TCP)
- F. Hexachlorophene (HCP)

Small Business Exemption: If you qualify as a "small business," you are exempt from the reporting requirements for the organic toxic pollutants, listed in the following sections: Volatile Compounds, Acid Compounds, Base/Neutral Compounds, and Pesticides. You may qualify as a "small business" if you fit one of the following definitions:

- (1) Your expected gross sales will total less than \$100,000 per year for the next three years, or
- (2) If your facility is a coal mine, your average production will be less than 100,000 tons of coal per year.

If you are a "small business," you may submit projected sales or production figures to qualify for this exemption. The sales or production figures you submit must be for the facility which is the source of the discharge. The data should not be limited only to production or sales for the process or processes which contribute to the discharge, unless those are the only processes at your facility. For sales data, in situations involving intracorporate transfer of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. If necessary, you may index your sales figures to the second quarter of 1980 to demonstrate your eligibility for a small business exemption. This may be done by using the gross national product price deflator (second quarter of 1980=100). This index is available in National Income and Product Accounts of the United States (Department of Commerce, Bureau of Economic Analysis).

The small business exemption applies to the GC/MS fractions of Item F-2 only. Even if you are eligible for a small business exemption, you are still required to

provide information on metals, cyanide, total phenols, and dioxin in Item F-2, as well as all of Items F-1 and 3.

Item F-3

List any pollutants in Table 2D-2 that you believe will be present in any outfalls and briefly explain why you believe they will be present. No estimate of the pollutant's quantity is required, unless you already have quantitative data.

Note: Under 40 CFR 117.12(a)(2), certain discharges of hazardous substances (listed in Table 2D-3 of these instructions) may be exempted from the requirements of Section 311 of CWA, which establishes reporting requirements, civil penalties, and liability for cleanup costs for spills of oil and hazardous substances. A discharge of a particular substance may be exempted if the origin, source, and amount of the discharged substances are identified in the OPDES permit application or in the permit, if the permit contains a requirement for treatment of the discharge, and if the treatment is in place. To apply for an exclusion of the discharge of any hazardous substance from the requirements of Section 311, attach additional sheets of paper to your form, setting forth the following information:

- 1. The substance and the amount of each substance which may be discharged.
- 2. The origin and source of the discharge of the substance. 3.
 - The treatment which is to be provided for the discharge by:
 - An onsite treatment system separate from any treatment system a. treating your normal discharge;
 - b A treatment system designed to treat your normal discharge and which is additionally capable of treating the amount of the substance identified under paragraph 1 above; or
 - Any combination of the above. c.

An exemption from the Section 311 reporting requirements pursuant to 40 CFR Part 117 for pollutants on Table 2D does not exempt you from the Section 402 reporting requirements pursuant to 40 CFR Part 122 for pollutants listed on Table 2D-3.

See 40 CFR 8117.12(a)(2) and (c), published on August 29, 1979, in 44 FR 50766, or contact DEQ for further information on exclusions from Section 311.

Item G

A space is provided for additional information which you believe would be useful in setting permit limits, such as additional sampling. Any response is optional.

Item H

State statutes provide for penalties for submitting false information on this application form.

27A O.S. 1 §2-6-206(G)(4) provides that, "Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Oklahoma Pollutant Discharge Elimination System Act... shall upon conviction be punished by a fine of not more than Ten Thousand Dollars (\$10,000.00), or by imprisonment for not more than two (2) years, or by both."

All applications must be certified as provided on the forms furnished by the Department, and must be signed by the applicant. Signatures must be original signatures; photostatic copies of signatures will not be accepted. Permit applications must be signed as follows:

(A) If the applicant is a private corporation, the application must be signed by:

(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or

- (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (B) If the applicant is a partnership, sole proprietorship or individual person, the application must be signed, respectively, by a general partner, the proprietor or the individual.
- (A) If the applicant is a municipality, political subdivision, the State or Federal government or other public agency or entity, the application must be signed by the principal executive officer of the entity or the ranking elected official.



Figure 2D-1

TABLE 2D-1

GROUP A

Biochemical Oxygen Demand (BOD) Chemical Oxygen Demand (COD) Total Organic Carbon (TOC) Total Suspended Solids (TSS) Flow

GROUP B

Bromide Chloride Chlorine (Total residual) Color Fecal Coliform Fluoride Nitrate-Nitrite (as N) Nitrogen (as N) Oil and Grease Phosphorus (as P) Radioactivity (1) Alpha, Total (2) Beta, Total

- (3) Radium, Total
- (4) Radium 226, Total

Ammonia (as N) Temperature (Summer) Temperature (Winter) pН

Sulfate Sulfide Sulfite Surfactants **Total Dissolved Solids** Aluminum, Total Barium, Total Boron, Total Cobalt, Total Iron, Total Magnesium, Total Molybdenum, Total Manganese, Total Tin, Total Titanium, Total

SECTION 1 -- Metal Toxic Pollutants, Total Cyanide, and Total Phenols

Antimony, Total Arsenic, Total Beryllium, Total Cadmium, Total Chromium, Total Copper, Total Lead, Total Mercury, Total

Nickel, Total Selenium, Total Silver, Total Thallium, Total Zinc. Total Cyanide, Total Phenols, Total

SECTION 2 -- TCDD

2,3,7,8-Tetrachlorodibenzo-P-Dioxin

SECTION 3 -- Organic Toxic Pollutants

GC/MS FRACTION -- VOLATILE COMPOUNDS

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

GC/MS FRACTION -- ACID COMPOUNDS

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

Acenaphthene	Diethyl Phthalate	
Acenaphtylene	Dimethyl Phthalate	
Anthracene	Di-N-Butyl Phthalate	
Benzidine	2,4-Dinitrotoluene	
Benzo (a) Anthracene	2,6-Dinitrotoluene	
Benzo (a) Pyrene	Di-N-Octyl Phthalate	
3,4-Benzoflouranthene	1,2-Diphenylhydrazine (as Azobenzene)	
Benzo (ghi) Perylene	Fluoranthene	
Benzo (k) Fluoranthene	Fluorene	
Bis (2-Chloroethoxy) Methane	Hexachlorobenzene	
Bis (2-Chloroethyl) Ether	Hexachlorobutadiene	
Bis (2-Chloroisopropyl) Ether	Hexachlorocyclopentadiene	
Bis (2-Ethylhexyl) Phthalate	Hexachloroethane	
4-Bromophenyl Phenyl Ether	Indeno (1,2,3-cd) Pyrene	
Butyl Benzyl Phthalate	Isophorone	
2-Chloronaphthalene	Naphthalene	
4-Chlorophenyl Phenyl Ether	Nitrobenzene	
Chrysene	N-Nitrosodimethylamine	
Dibenzo (a,h) Anthracene	N-Nitrosodi-N-Propylamine	
1,2-Dichlorobenzene N-Nitrosodiphenylamine		
1,3-Dichlorobenzene	Phenanthrene	
1,4-Dichlorobenzene	Pyrene	
3,3'-Dichlorobenzidine	1,2,4-Trichlorobenzene	

GC/MS FRACTION -- BASE/NEUTRAL COMPOUNDS

GC/MS FRACTION -- PESTICIDES

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

TABLE 2D-2

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES **REOUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT**

TOXIC POLLUTANT

Asbestos

HAZARDOUS SUBSTANCES

Acetaldehyde	Isopropanolamine dodecylbenzenesulfonate
Allyl alcohol	Kelthane
Allyl chloride	Kepone
Amyl acetate	Malathion
Aniline	Mercaptodimethur
Benzonitrile	Methoxychlor
Benzyl chloride	Methyl mercaptan
Butyl acetate	Methyl methacrylate
Butylamine	Methyl parathion
Captan	Mevinphos
Carbaryl	Mexacarbate
Carbofuran	Monoethyl amine
Carbon disulfide	Monomethyl amine
Chlorpyrifos	Naled
Coumaphos	Naphthenic acid
Cresol	Nitrotoluene
Crotonaldehyde	Parathion
Cyclohexane	Phenolsulfonate
2,4-D (2,4-Dichlorophenoxyaceric acid)	Phosgene
Diazinon	Propargite
Dicamba	Propylene oxide
Dichlobenil	Pyrethrins
Dichlone	Quinoline
2,2-Dichloropropionic acid	Resorcinol
Dichlorvos	Strontium
Diethyl amine	Strychnine
Dimethyl amine	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)
Dintrobenzene	TDE (Tetrachlorodiphenyl ethane)
Diquat	2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]
Disulfoton	Trichlorofon
Diuron	Triethanolamine dodecylbenzenesulfonate
Epichlorohydrin	Triethylamine
Ethion	Uranium
Ethylene diamine	Vanadium
Formaldehyde	Vinyl acetate
Furfural	Xylene
Guthion	Xylenol
Isoprene	Zirconium

TABLE 2D-3HAZARDOUS SUBSTANCES

Acetaldehvde Acetic acid Acetic anhydride Acetone cyanohydrin Acetyl bromide Acetyl chloride Acrolein Acrylonitrile Adipic acid Aldrin Allyl alcohol Allyl chloride Aluminum sulfate Ammonia Ammonium acetate Ammonium benzoate Ammonium bicarbonate Ammonium bichromate Ammonium bifluoride Ammonium bisulfite Ammonium carbamate Ammonium carbonate Ammonium chloride Ammonium chromate Ammonium citrate Ammonium flouroborate Ammonium fluoride Ammonium hydroxide Ammonium oxalate Ammonium silicofluoride Ammonium sulfamate Ammonium sulfide Ammonium sulfite Ammonium tartrate Ammonium thiocyanate Ammonium thiosulfate Amyl acetate Aniline Antimony pentachloride Antimony potassium tartrate Antimony tribromide Antimony trichloride Antimony trifluoride Antimony trioxide Arsenic disulfide Arsenic trichloride Arsenic trioxide Arsenic trisulfide Barium cyanide Benzene Benzoic acid Benzonitrile Benzoyl chloride Benzyl chloride Beryllium chloride Beryllium fluoride Beryllium nitrate Butylacetate n-Butylphthalate Butylamine Butyric acid Cadmium acetate Cadmium bromide Cadmium chloride Calcium arsenate Calcium arsenite Calcium carbide Calcium chromate Calcium cyanide Calcium dodecylbenzenesulfonate

Calcium hypochlorite Captan Carbaryl Carbofuran Carbon disulfide Carbon tetrachloride Chlordane Chlorine Chlorobenzene Chloroform Chloropyrifos Chlorosulfonic acid Chromic acetate Chromic acid Chromic sulfate Chromous chloride Cobaltous bromide Cobaltous formate Cobaltous sulfamate Coumaphos Cresol Crotonaldehyde Cupric acetate Cupric acetoarsenite Cupric chloride Cupric nitrate Cupric oxalate Cupric sulfate Cupric sulfate ammoniated Cupric tartrate Cyanogen chloride Cyclohexane 2,4-D acid (2,4-Dichlorophenoxyacetic acid) 2,4-D esters (2,4-Dichlorophenoxyacetic acid esters) DDT Diazinon Dicamba Dichlobenil Dichlone Dichlorobenzene Dichloropropane Dichloropropene Dichloropropene-Dichloropropane mix 2,2-Dichloropropionic acid Dichlorvos Dieldrin Diethylamine Dimethylamine Dinitrobenzene Dinitrophenol Dinitrotoluene Diquat Disulfoton Diuron Dodecylbenzesulfonic acid Endosulfan Endrin Epichlorohydrin Ethion Elhylbenzene Ethylenediamine Ethylene dibromide Ethylene dichloride Ethylene diaminetetracetic acid (EDTA) Ferric ammonium citrate Ferric ammonium exalate Ferric chloride Ferric fluoride Ferric nitrate

Table 2D-3 HAZARDOUS SUBSTANCES (continued)

Ferric sulfate Ferrous chloride Ferrous sulfate Formaldehyde Formic acid Fumaric acid Furfural Guthion Heptachlor Hexachlorocyclopentadiene Hydrochloric acid Hydrofluoric acid Hydrogen cyanide Hydrogen sulfide Isoprene Isopropanolamine dodecylbenzenesultonate Kelthane Kepone Lead acetate Lead arsenate Lead chloride Lead fluoborate Lead fluorite Lead iodide Lead nitrate Lead stearate Lead sulfate Lead sulfide Lead thiocyanate Lindane Lithium chromate Malathion Maleic acid Maleic anhydride Mercaptodimethur Mercuric cyanide Mercuric nitrate Mercuric sulfate Mercuric thiocyanate Mercurous nitrate Methoxychlor Methyl mercaptan Methyl methacrylate Methyl parathion Mevinphos Mexacarbate Monoethylamine Monomethylamine Naled Naphthalene Naphthenic acid Nickel ammonium sulfate Nickel chloride Nickel hydroxide Nickel nitrate Nickel sulfate Nitric acid Nitrobenezene Nitrogen dioxide Nitrophenil Nitrotoluene Paraformaldehyde Parathion Pentachlorophenol Phenol Phosgene Phosphoric acid Phosphorus Phosphorus oxychloride Phospnorus pentasulfide Phosphorus trichloride Polychlorinated biphenyls (PCB)

Potassium arsenate Potassium arsenite Potassium bichromate Potassium cyanide Potassium hydroxide Potassium permanganate Propargite Propionic acid Propionic anhydride Propylene oxide Pyrethrins Quinoline Resorcinol Selenium oxide Silver nitrate Sodium Sodium arsenate Sodium arsenite Sodium bichromate Sodium bifluoride Sodium bisulfite Sodium chromate Sodium cyanide Sodium dodecylbenzenesulfonate Sodium fluoride Sodium hydrosulfide Sodium hydroxide Sodium hypochlorite Sodium methylate Sodium nitrate Sodium phospate (dibasic) Sodium phosphate (tribasic) Sodium selenite Strontium chromate Strychnine Styrene Sulfuric acid Sulfur monochloride 2,4,5-T acid (2,4,5-Trichlorophenoxy acetic acid) 2,4,5-T amines (2,4,5-Trichlorophenoxy acetic acid amines) 2,4,5-T esters (2,4,5-Trichlorophenoxy acetic acid esters) 2,4,5-T salts (2,4,5-Trichlorophenoxy acetic acid salts) 2,4,5-TP acid (2,4,5-Trichlorophenoxy propanoic acid) 2,4,5-TP acid esters (2,4,5-Trichlorophenoxy propanoic acid esters) TDE (Tetrachlorodiphenyl ethane) Tetraethyl lead Tetraethyl pyrophosphate Thallium sulfate Toluene Toxaphene Trichlorofon Trichloroethylene Trichlorophenol Triethanolamine dodecylbenzenesulfonate Triethylamine Trimethylamine Uranyl acetate Uranyl nitrate Vanadium pentoxide Vanadyl sulfate Vinyl acetate Vinylidene chloride Xylene Xylenol Zinc acetate Zinc ammonium chloride Zinc borate

Table 2D-3 HAZARDOUS SUBSTANCES (continued)

Zinc bromide Zinc carbonate Zinc chloride Zinc cyanide Zinc fluoride Zinc formate Zinc hydrosulfite Zinc nitrate

Zinc phenolsulfonate Zinc phosphide Zinc silicofluoride Zinc sulfate Zirconium nitrate Zirconium potassium fluoride Zirconium sulfate Zirconium tetrachloride

TABLE 2D-4MINIMUM QUANTIFICATION LEVELS

		RECOMMENDED
METALS AND CYANIDE	REQUIRED MQL	EPA METHOD
Antimony, Total	60	200.8
Arsenic, Total	0.5	200.8
Beryllium, Total	5	200.8
Cadmium, Total	1	200.8
Chromium, Total	10	200.8
Chromium, (3+)	10	*
Chromium, (6+)	10	218.6
Copper. Total	1	200.8
Lead. Total	0.5	200.8
Mercury, Total	0.05	245.7
Nickel, Total (Freshwater)	10	200.8
Selenium. Total	5	200.8
Silver Total	0.5	200.8
Thallium Total	0.5	200.8
Zinc Total	20	200.8
Cvanide Total	10	335.4
Cyande, Total	10	555.4
DIOXIN		
2,3,7,8-TCDD	0.00001	1613B
VOLATILE COMPOUNDS		
Acrolein	50	624
Acrylonitrile	50	624
Benzene	10	624
Bromoform	10	624
Carbon Tetrachloride	10	624
Chlorobenzene	10	624
Chlorodibromomethane	10	624
Chloroethane	50	624
2-Chloroethyl Vinyl Ether	10	624
Chloroform	10	624
Dichlorobromomethane	10	624
11-Dichloroethane	10	624
1.2-Dichloroethane	10	624
11-Dichloroethylene	10	624
1.2-Dichloropropage	10	624
1 3-Dichloropropylene	10	624
Fthylbenzene	10	624
Methyl Bromide (Bromomethane)	50	624
Methyl Chloride (Chloromethane)	50	624
Methylene Chloride	20	624
1 1 2 2 Tetrachloroethane	20	624 624
Tatrachloroathylana	10	024 624
Teluene	10	024 624
1 2 trans Dichlorosthylans	10	024 624
1,2-uans-Dichioroethene	10	624
1,1,1-1 Helloroothang	10	624
1,1,2-1 Hemoroethale	10	024
Vinyl Chlorida	10	024
v myr Chioride	10	024

ACID COMPOUNDS	REQUIRED MQL	RECOMMENDED EPA METHOD
2 Chlorophenol	20	625
2.4-Dichlorophenol	20	625
2.4-Diemotophenol	20	625
4.6 Dinitro o Crosol	20 50	625
2 4 Dinitrophonol	50	625
2. Nitrophonol	30 20	625
4 Nitrophenol	20	625
n Chloro m Crosol	30 20	625
p-Cillolo-III-Clesol	20 50	625
Dhanal	30	625
Phenoi	20	025
2,4,6-1 richlorophenol	20	625
BASE/NEUTRAL COMPOUN	<u>DS</u>	
Acenapthene	20	625
Acenaphthylene	20	625
Anthracene	20	625
Benzidine	50	625
Benzo(a)anthracene	20	625
Benzo(a)pyrene	20	625
3,4-Benzofluoranthene	20	625
Benzo(ghi)perylene	20	625
Benzo(k)fluoranthene	20	625
Bis(2-chloroethoxy) Methane	20	625
Bis(2-chloroethyl) Ether	20	625
Bis(2-chloroisopropyI) Ether	20	625
Bis(2-ethylhexyl) Phthalate	20	625
4-Bromophenyl Phenyl Ether	20	625
Butyl Benzyl Phthalate	20	625
2-Chloronapthalene	20	625
4-Chlorophenyl Phenyl Ether	20	625
Chrysene	20	625
Dibenzo(a,h)Anthracene	20	625
1,2-Dichlorobenzene	20	625
1,3-Dichlorobenzene	20	625
1.4-Dichlorobenzene	20	625
3.3-Dichlorobenzidine	50	625
Diethyl Phthalate	20	625
Dimethyl Phthalate	$\frac{1}{20}$	625
Di-n-Butyl Phthalate	$\frac{1}{20}$	625
2.4-Dinitrotoluene	20	625
2.6-Dinitrotoluene	20	625
Di-n-octyl Phthalate	20	625
1 2-Diphenylhydrazine	20	625
Fluoranthene	20	625
Hexachlorobenzene	20	625
Heyachlorobutadiene	20	625
Hexachlorocyclopentadiene	20	625
Heyachloroethane	20	625
Indeno (1.2.2 ad) Durana	20	625
Isophorone	20	625
Naphthalana	20	625
raphthalene	20	025

		RECOMMENDED
BASE/NEUTRAL (cont.)	REQUIRED MQL	EPA METHOD
Nitrobenzene	20	625
n-Nitrosodimethylamine	50	625
n-Nitrosodi-n-Propylamine	20	625
n-Nitrosodiphenylamine	20	625
Phenanthrene	20	625
Pyrene	20	625
1,2,4-Trichlorobenzene	20	625
PESTICIDES		
Aldrin	0.05	608
Alpha-BHC	0.05	608
Beta-BHC	0.05	608
Gamma-BHC (Lindane)	0.05	608
Delta-BHC	0.05	608
Chlordane	0.2	608
4,4'-DDT	0.05	608
4,4'-DDE (p,p-DDX)	0.05	608
4,4'-DDD (p,p-TDE)	0.05	608
Dieldrin	0.05	608
Alpha-Endosulfan	0.05	608
Beta-Endosulfan	0.05	608
Endosulfan Sulfate	0.05	608
Endrin	0.05	608
Endrin Aldehyde	0.05	608
Heptachlor	0.05	608
Heptachlor Epoxide	0.05	608
(BHC-Hexachlorocyclohexan	e)	
Toxaphene	0.3	608
PCB-1242	0.25	608
PCB-1254	0.25	608
PCB-1221	0.25	608
PCB-1232	0.25	608
PCB-1248	0.25	608
PCB-1260	0.25	608
PCB-1016	0.25	608

* Chromium (3+) level is determined by subtracting chromium (6+) level from total chromium level.

If any individual analytical test result for any listed pollutant is less than the minimum quantification level (MQL) shown above, then a value of zero (0) may be used for the self monitoring report (SMR), calculations, and reporting requirements.

FOF	RM
2	D



OPDES APPLICATION TO DISCHARGE AND/OR DISPOSE OF INDUSTRIAL WASTEWATER OR SLUDGE

NEW SOURCES AND NEW DISCHARGERS

DISCHARGE

B. FACILIT	Y CON	ГАСТ					
	1. NAME & TITLE 2. PHONE (area code & number)						
C. OUTFAI	LL LOCA	ATION					
1. For each outfa	ll, list the lo	egal description (¼, ¼, ¼, S	ection, Township, I	Range) to the nearest	0 acres a	and the nat	me of the receiving water.
a. OUTFAL	L NO.		b. LEGAL DE	ESCRIPTION			c. RECEIVING WATER
2. For each outfa	all, list the l	atitude and longitude.					
a. OUTFAL	L NO.	b.	LATITUDE				c. LONGITUDE
D ELOWS	SOUDC			ρωένιτ τεςιί		TIES	
1. Attach a line	drawing sh	lowing the water flow through	gh the facility. Indi	icate sources of intake	water, or	perations of	contributing wastewater to the effluent, and
treatment un	its labeled	to correspond to the more de	tailed descriptions	in Item B. Construct	a water b	balance on	the line drawing by showing average flows
description of	of the nature	e and amount of any sources	of water and any c	collection or treatment	measure	e.g., for cer es.	tain mining activities), provide a pictorial
2. For each outf	fall, provide	e a description of: (1) All op upoff: (2) The average flow	contributed by each	ng wastewater to the e	ffluent, i be treatr	including p	process wastewater, sanitary wastewater, cooling
sheets if nec	essary.		contributed by each	n operation, and (5)	ne treati		
a. OUT-		b. OPERATION(S)	CONTRIBUT	ING FLOW			c. TREATMENT
FALL NO.		(1) Operation		(include units)	w		(3) Description
FOR OFFICICIAL USE ONLY							
OPDES PER	OPDES PERMIT NO. STATE ID NO.						STATE ID NU.

D. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (continued)								
a. OUT-	b. OPERATION(S) CONTRIB	UTING FI	.OW		C	. TREATM	1ENT	
FALL NO.	(1) Operation	(2) A	(2) Average Flow (include units)		(3) Description			
		(
3. Except for sto	rm runoff, leaks or spills, are any of the discharges de	scribed in Item	ns D-1 or 2 int	ermittent or	seasonal?			
	Yes (complete the following table)	a EDE(UENCV	1	No (go to Secti	ion E)	r	
	CONTRIBUTING FLOW	Days Per	Months	Floy	v Rate	Total V	/olume	Duration
FALL NO.	CONTRIBUTING FLOW	Week	Per Year	Long	Maximum	Long Term	Maximum	(days)
				Term Average	Daily	Average	Daily	

E. PRO	DUCTION						
1. Does an effluent guideline limitation or New Source Performance Standard (NSPS) apply to your facility?							
2. Are the limitations in the applicable effluent guideline or NSPS expressed in terms of production (or other measure of operation)?							
Yes (complete Item E-3) No (go to Item F) 3. If you answered "Yes" to Item E-2, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms							
and uni	and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit						
aneriia	a. ESTIMATED DAILY PRODUCTION b. AFFECTED OUTFALLS						
Year	Quantity Per	Units of	Operation, I	Product, Material, etc.			
	Day	Measure					
F. EFFL	UENT CHAR	ACTERISTICS	<u>s</u>				
1 and 2: 1 of this item a separate r	hese items require addresses a differ age. Attach addit	e you to report estima rent set of pollutants fional sheets of paper	ated amounts (both concentration and should be completed in accor r if necessary.	and mass) of the pollutants to be dance with the specific instruction	discharged from each of your outfalls. Each part ons for that part. Data for each outfall should be on		
General Ins	tructions (See Tab	ble 2D-1 for pollutan	ts)				
Group A, fo	or all outfalls, mus	at be submitted. For	all outfalls, data for pollutants in (Group B should be reported only	for pollutants which you believe will be present or		
are limited	directly by an effl	uent limitations guid	eline or NSPS or indirectly throug	gh limitations on an indicator pol	lutant.		
	a. POLLUT	ANT	b. MAXIMUM	c. AVERAGE	d. SOURCE		
			DAILY VALUE (units)	DAILY VALUE (units)			

3. Use the space below to list any of the pollutants listed in Table 2D-2 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.				
i. POLLUTANT		ii. S	SOURCE	
G. OTHER INFORMATION				
Use the space below to expand upon any of the above que	stions or to bring to the attention	of the reviewer any other information	ation you feel should be considered in	
establishing permit initiations for the proposed facility.	Attach additional sheets if hecessa	ary.		
H. CERTIFICATION	chments were prepared under my	lirection or supervision in accorda	nce with a system designed to assure that	
qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly				
responsible for gathering the information, the information s	ubmitted is, to the best of my know	ledge and true belief, true, accurat	e, and complete. I am aware that there are	
A. NAME & OFFICIAL TITLE (type or print)	B. SIGN	ATURE	C. DATE SIGNED	