

EPA I.D. NUMBER (copy from Item 1 of Form 1)

NM0890010515

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

Please print or type in the unshaded areas only.

FORM 2C NPDES		U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS <i>Consolidated Permits Program</i>
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I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER <i>(list)</i>	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER <i>(name)</i>
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
051	35.00	51.00	54.00	106.00	17.00	54.00	Effluent Canyon, Tributary in Mortandad Canyon, Water Quality Segment 20.6.4.128 NMAC

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. <i>(list)</i>	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION <i>(list)</i>	b. AVERAGE FLOW <i>(include units)</i>	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
051	Radioactive Liquid Waste Treatment	20,000 GPD (Batch)	Evaporation	1 F
	Facility (RLWTF) Treated Effluent		Mixing	1 O
	- Treated Process Water	(18,400 GPD, 92%)	Reverse Osmosis (Hyperfiltration)	1 S
	- Treated Cooling Water	(200 GPD, 1%)	Sedimentation (Settling)	1 U
	- Treated Storm Water	(1,400 GPD, 7%)	Chemical Precipitation	2 C
			Ion Exchange	2 J
			Neutralization	2 K
			Landfill	5 Q
			Pressure Filtration	5 R
			Vacuum Filtration	5 U

OFFICIAL USE ONLY (effluent guidelines sub-categories)

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?
 YES (complete the following table) NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
051	Radioactive Liquid Waste Treatment Facility (RLWTF) Treated Effluent	4	12	0.02 MGD	0.04 MGD	20,000 GALLONS	39,840 GALLONS	208

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?
 YES (complete Item III-B) NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?
 YES (complete Item III-C) NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
NA	NA	NA	NA

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.
 YES (complete the following table) NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
NA	NA	NA	NA	NA	NA

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

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V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
 NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 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.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Carbon Disulfide Cresol Strontium Uranium Vanadium Xylene Zirconium	Identified on a Waste Stream Profile associated with the influent treated at the RLW Treatment Facility		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?
 YES (list all such pollutants below) NO (go to Item VI-B)

Empty space for listing pollutants not covered by analysis.

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VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

Whole Effluent Lethality 48-hr acute, Critical dilution 100% with a dilution series of 32%, 42%, 56%, 75%, and 100%.

Daphnia pulex, 3-hr composite

RESULTS for Sample Collected September 24, 2018: NOEC = 100%, PASS

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?


YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GEL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843) 556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
Cape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910) 795-0421	Dioxins and Furans
New Mexico Water Testing Laboratory Inc.	401 North Coronado Ave, Espanola, NM 87532	(505) 929-4545	E-Coli
Pacific EcoRisk	2250 Cordelia Rd., Fairfield CA 94534	(707) 207-7760	Whole Effluent Toxicity

IX. CERTIFICATION

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

A. NAME & OFFICIAL TITLE (type or print) Michael W. Hazen, Associate Laboratory Director ESHQSS	B. PHONE NO. (area code & no.) (505) 667-4218
C. SIGNATURE 	D. DATE SIGNED 3-20-19

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VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

EXTRA PAGE FOR SIGNATURE ONLY

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?


YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)

IX. CERTIFICATION

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

A. NAME & OFFICIAL TITLE (type or print) William S. Goodrum, Manager Los Alamos Field Office	B. PHONE NO. (area code & no.) (505) 667-5105
C. SIGNATURE 	D. DATE SIGNED 3-25-19

Los Alamos National Laboratory
EPA ID No. NM0890010515
PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) OUTFALL NO.
051

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	10.2	3.39					1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	1.9	6.32	(D)				1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	<0.66	<0.219	(E)				1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	<0.57	<0.19	(E)				1	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.393	0.131	(O)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.0398 (A)	VALUE 0.02 (A)			VALUE 0.02 (A)		est.	MGD	NA	VALUE NA	NA	NA
g. Temperature (winter)	VALUE 24.0 (B)	VALUE NA			VALUE NA		est.	°C		VALUE NA	NA	NA
h. Temperature (summer)	VALUE 20.0 (B)	VALUE NA			VALUE NA		est.	°C		VALUE NA	NA	NA
i. pH	MINIMUM 6.1 (C)	MAXIMUM 8.9 (C)			MINIMUM NA	MAXIMUM NA	est.	STANDARD UNITS				

PART B - Mark 'X' in column 2-a for each pollutant you know or have reason to believe is present. Mark 'X' in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'				3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS			
a. Bromide (24959-67-9)	X		0.0717	2.4e-02 (D)					1	mg/L	lbs	NA	NA	NA		
b. Chlorine, Total Residual	X		0.4	1.3e-01 (I, O)					1	mg/L	lbs	NA	NA	NA		
c. Color	X		5	NA (F)						PCU	NA	NA	NA	NA		
d. Fecal Coliform		X	<1	NA (E, K)					1	#/100mL	NA	NA	NA	NA		
e. Fluoride (16984-48-8)	X		0.201	6.7e-02 (O)					1	mg/L	lbs	NA	NA	NA		
f. Nitrate-Nitrite (as N)	X		5.3	1.76 (O)					1	mg/L	lbs	NA	NA	NA		

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS			5. INTAKE (optional)	
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
g. Nitrogen, Total Organic (as N)	X		0.787	2.6e-01			1	mg/L	lbs	NA	NA
h. Oil and Grease	X		<1.54	<0.512	(E, N)		1	mg/L	lbs	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.0692	2.3e-02			1	mg/L	lbs	NA	NA
j. Radioactivity											
(1) Alpha, Total	X		61.4	NA			1	pCi/L	NA	NA	NA
(2) Beta, Total	X		9.72	NA			1	pCi/L	NA	NA	NA
(3) Radium, Total	X		2.05	NA			1	pCi/L	NA	NA	NA
(4) Radium 226, Total	X		1.25	NA			1	pCi/L	NA	NA	NA
k. Sulfate (as SO ₄) (14808-79-8)	X		51.0	17.0	(O)		1	mg/L	lbs	NA	NA
l. Sulfide (as S)		X	<0.033	<1e-02	(E)		1	mg/L	lbs	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		0.9	0.299	(O)		1	mg/L	lbs	NA	NA
n. Surfactants	X		<0.017	<5e-03	(F, E, N)			mg/L	lbs	NA	NA
o. Aluminum, Total (7429-90-5)		X	<1.9.3	<5e-03	(H)		1	ug/L	lbs	NA	NA
p. Barium, Total (7440-39-3)	X		2.54	8.5e-04	(I)		1	ug/L	lbs	NA	NA
q. Boron, Total (7440-42-8)	X		56.6	1.88e-2	(I)		1	ug/L	lbs	NA	NA
r. Cobalt, Total (7440-48-4)	X		0.343	1.1e-04	(D, I)		1	ug/L	lbs	NA	NA
s. Iron, Total (7439-89-6)	X		49.3	1.6e-02	(D, O)		1	ug/L	lbs	NA	NA
t. Magnesium, Total (7439-95-4)	X		1660	5.5e-01			1	ug/L	lbs	NA	NA
u. Molybdenum, Total (7439-98-7)	X		4.43	1.5e-03	(I)		1	ug/L	lbs	NA	NA
v. Manganese, Total (7439-96-5)	X		38.1	1.3e-02			1	ug/L	lbs	NA	NA
w. Tin, Total (7440-31-5)	X		16.1	5.4e-03			1	ug/L	lbs	NA	NA
x. Titanium, Total (7440-32-6)		X	<2.0	<7e-04	(E)		1	ug/L	lbs	NA	NA

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)						
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)		b. NO. OF ANALYSES	
													CONCENTRATION	(2) MASS		
GC/MS FRACTION - VOLATILE COMPOUNDS																
1V. Acrolein (107-02-8)			X	<1.67	<6e-04	(G,O)				1	ug/L	lbs	NA	NA	NA	
2V. Acrylonitrile (107-13-1)			X	<1.67	<6e-04	(G,O)				1	ug/L	lbs	NA	NA	NA	
3V. Benzene (71-43-2)		X		<0.333	<1e-04	(G,N,O)				1	ug/L	lbs	NA	NA	NA	
4V. Bis (Chloromethyl) Ether (542-88-1)						(J)										
5V. Bromoform (75-25-2)		X		1.02	3e-04	(I)				1	ug/L	lbs	NA	NA	NA	
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA	
7V. Chlorobenzene (108-90-7)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA	
8V. Chlorodibromomethane (124-48-1)		X		1.02	3e-04	(I)				1	ug/L	lbs	NA	NA	NA	
9V. Chloroethane (75-00-3)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA	
10V. 2-Chloroethylvinyl Ether (110-75-8)			X	<1.67	<6e-04	(E)				1	ug/L	lbs	NA	NA	NA	
11V. Chloroform (67-66-3)		X		1.5	5e-04	(O)				1	ug/L	lbs	NA	NA	NA	
12V. Dichlorobromomethane (75-27-4)		X		0.41	1e-04	(D)				1	ug/L	lbs	NA	NA	NA	
13V. Dichlorodifluoromethane (75-71-8)						(J)										
14V. 1,1-Dichloroethane (75-34-3)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA	
15V. 1,2-Dichloroethane (107-06-2)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA	
16V. 1,1-Dichloroethylene (75-35-4)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA	
17V. 1,2-Dichloropropane (78-87-5)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA	
18V. 1,3-Dichloropropylene (542-75-6)			X	<0.333	<1e-04	(G,I,O)				1	ug/L	lbs	NA	NA	NA	
19V. Ethylbenzene (100-41-4)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA	
20V. Methyl Bromide (74-83-9)			X	<0.337	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA	
21V. Methyl Chloride (74-87-3)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA	

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	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)														
22V. Methylene Chloride (75-09-2)			X	<1.67	<6e-04	(G)			1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	<0.333	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
24V. Tetrachloroethylene (127-18-4)			X	<0.333	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<1e-04	(G,O)			1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	<0.333	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloroethane (71-55-6)			X	<0.333	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloroethane (79-00-5)			X	<0.333	<1e-04	(E)			1	ug/L	lbs	NA	NA	NA
29V. Trichloroethylene (79-01-6)			X	<0.333	<1e-04	(G,O)			1	ug/L	lbs	NA	NA	NA
30V. Trichlorofluoromethane (75-69-4)						(J)								
31V. Vinyl Chloride (75-01-4)			X	<0.333	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION – ACID COMPOUNDS														
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichlorophenol (120-83-2)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethylphenol (105-67-9)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitrophenol (51-28-5)			X	<5.00	<2e-03	(G)			1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M-Cresol (59-50-7)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA	NA
9A. Pentachlorophenol (87-86-5)			X	<3.00	<1e-03	(G,O)			1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichlorophenol (88-05-2)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS														
1B. Acenaphthene (63-32-9)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
2B. Acenaphthylene (208-96-8)			X	<0.30	<1e-04	(E)			1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.90	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzofluoranthene (205-99-2)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.30	<1e-04	(E)			1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA	NA
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X	<1.67	<6e-04	(G)			1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
16B. 2-Chloronaphthalene (91-58-7)			X	<0.410	<1e-4	(G)			1	ug/L	lbs	NA	NA	NA
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.30	<1e-04	(G)			1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichlorobenzene (95-50-1)			X	<0.333	<1e-04	(G,O)			1	ug/L	lbs	NA	NA	NA
21B. 1,3-Dichlorobenzene (541-73-1)			X	<0.333	<1e-04	(G,O)			1	ug/L	lbs	NA	NA	NA

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				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)													
22B. 1,4-Dichlorobenzene (106-46-7)			X	<0.333	<1e-04	(G, O)			1	ug/L	lbs	NA	NA
23B. 3,3-Dichlorobenzidine (91-94-1)			X	<3.00	<1e-03	(G, O)			1	ug/L	lbs	NA	NA
24B. Diethyl phthalate (84-66-2)			X	<0.300	<1e-04	(G)			1	ug/L	lbs	NA	NA
25B. Dimethyl Phthalate (131-11-3)		X		<0.300	<1e-04	(G, N)			1	ug/L	lbs	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<1e-04	(G)			1	ug/L	lbs	NA	NA
27B. 2,4-Dinitrotoluene (121-14-2)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
28B. 2,6-Dinitrotoluene (606-20-2)			X	<3.00	<1e-03	(E)			1	ug/L	lbs	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<1e-04	(E)			1	ug/L	lbs	NA	NA
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-86-7)			X	<3.0	<1e-03	(G)			1	ug/L	lbs	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.300	<1e-04	(G)			1	ug/L	lbs	NA	NA
32B. Fluorene (96-73-7)			X	<0.300	<1e-04	(G)			1	ug/L	lbs	NA	NA
33B. Hexachlorobenzene (118-74-1)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
34B. Hexachlorobutadiene (87-68-3)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
35B. Hexachlorocyclopentadiene (77-47-4)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
36B. Hexachloroethane (67-72-1)			X	<0.300	<1e-04	(G)			1	ug/L	lbs	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<3.50	<1e-03	(G)			1	ug/L	lbs	NA	NA
38B. Isophorone (78-59-1)			X	<0.300	<1e-04	(E, O)			1	ug/L	lbs	NA	NA
39B. Naphthalene (91-20-3)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
41B. N-Nitrosodimethylamine (62-75-9)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	<3.00	<1e-03	(G)			1	ug/L	lbs	NA	NA

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					CONCENTRATION (1)	MASS (2)					CONCENTRATION (1)	MASS (2)	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)													
43B. N-Nitrosodiphenylamine (86-30-6)			X	<3.0	<1e-03	(G, M)		1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.300	<1e-04	(E)		1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.300	<1e-04	(G)		1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Trichlorobenzene (120-82-1)			X	<3.00	<1e-03	(G)		1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION - PESTICIDES													
1P. Aldrin (309-00-2)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00739	<2e-06	(E)		1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0850	<3e-05	(G)		1	ug/L	lbs	NA	NA	NA
7P. 4,4-DDT (50-29-3)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
8P. 4,4-DDE (72-55-9)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
9P. 4,4-DDD (72-54-8)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
11P. α-Endosulfan (115-29-7)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.01110	<4e-06	(G)		1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-99-4)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.00739	<2e-06	(G)		1	ug/L	lbs	NA	NA	NA

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT		4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS		
				(1) MASS CONCENTRATION	(2) MASS CONCENTRATION	(1) CONCENTRATION	(2) MASS CONCENTRATION	(1) CONCENTRATION	(2) MASS CONCENTRATION		
GC/MS FRACTION – PESTICIDES (continued)											
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00739	<2e-06	(G)		ug/L	lbs	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0351	<1e-05	(G)		ug/L	lbs	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.1670	<6e-05	(G)		ug/L	lbs	NA	NA

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2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 051

A	Estimated based upon the size of an effluent tank, the volume of influent received, and the total volume of effluent generated. The facility can discharge a maximum of 1 effluent tank every 4 hours (2 tanks in an 8 hour shift).
B	The temperature range provided was estimated by RLW operations based upon knowledge of process.
C	The pH range provided was estimated by RLW operations based upon knowledge of process.
D	Value provided was estimated by the analytical laboratory.
E	The analytical result provided is less than the Method Detection Limit (MDL) and there is not an approved EPA Region 6 Method Quantification Limit (MQL). The value provided is the MDL.
F	Preparation or preservation holding time was exceeded and the value provided has been estimated by the laboratory.
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
H	The analytical result provided is less than the MDL, however, the MDL used was greater than the EPA Region 6 approved MQL. The value provided is the MDL.
I	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
J	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
M	The result provided is for diphenylamine due to similar mass spectra and decomposition of N-nitrosodiphenylamine in the gas chromatograph injection port to nitric oxide and diphenylamine (thus it is measured as diphenylamine).
N	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in the discharge to the outfall. The pollutant is marked as "believed present" because it was either detected or marked as "believed present" in the previous permit application submitted in 2012.
O	Identified as a potential pollutant from one of the sources discharging to the outfall.