EXHIBIT A

Form Approved OMB No 2040-0086

FORM	0.555	U.S ENVIR				_	ON	PAID NUMBER	2			
1	⊕EPA				IFORMA Permits Prog			NM0890010515			T/A	D
GENERAL		(Read the '	Gener	al Instr	uctions" bej	fore	starting)	1		118	14	15
	LITEMS						des	GENERAL INSTRU a preprinted label has been ignated space. Review the inform	provide nation o	d, affix	; if any	of it
	NUMBER						app is a	ncorrect, cross through it and en ropriate fill-in area below Also, if absent (the area to the left of	any of	the pre	printed	data
III. FACILIT		PLEASE	PLA	CE LA	BEL IN THI	S S	SPACE info	rmation that should appear), plean area(s) below If the label is o	se prov	vide it ir e and i	n the procept,	roper , you
ADDRES							mus has	d not complete Items I, III, V, a st be completed regardless) Con- been provided Refer to the ins criptions and for the legal autho	nplete : truction	all item: is for d	s if no etailed	label item
	Y LOCATION							a is collected	Lation	o dilido	WITHOUT	tillo
INSTRUCTIO submit this for you answer "n	m and the supplement o" to each question,	ough J to determine whethe ental form listed in the pare	nthesi: f these	s follove forms bold-f	wing the quality of the second	esi an:	permit application forms to the Elicion. Mark "X" in the box in the tissuer "no" if your activity is excluded	hird column if the supplemer	ital for	m is a Sectio	ttache in C of	ed_If
	SPECIFIC QUE	STIONS	YES	Mark NO	FORM ATTACHED		SPECIFIC QUI	ESTIONS	YES	Mark NO	FOF ATTAC	
		d treatment works which s of the U.S.? (FORM 2A)		×		В	Does or will this facility (eit include a concentrated animal aquatic animal production	mal feeding operation or facility which results in a		X		
0.1.41.	700 1 1 1 1	h : n .	16	17	18	1	discharge to waters of the U.		19	20	21	
	he U.S. other than	results in discharges to those described in A or B	22	23	24	D	 Is this a proposed facility (other or B above) which will result in the U.S.? (FORM 2D) 		25	X 26	27	7
E Does or v hazardous	vill this facility trea wastes? (FORM 3)	at, store, or dispose of	×			F	Do you or will you inject a municipal effluent below containing, within one quarte underground sources of drinking.	the lowermost stratumer mile of the well bore.		X		
or other fl connection inject fluids	uids which are browith conventional oil used for enhanced	facility any produced water ought to the surface in or natural gas production, recovery of oil or natural e of liquid hydrocarbons?	28	× 29	30	Н	Do you or will you inject at the processes such as mining of susplution mining of minerals, in fuel, or recovery of geothermal.	nis facility fluids for special ulfur by the Frasch process, n situ combustion of fossil	31	32 X	33	
(FORM 4)	ct lidius for storage	e or liquid hydrocarbons?	34	35	36				37	38	39	
of the 28 ind which will p pollutant reg	fustrial categories listotentially emit 100	nary source which is one sted in the instructions and tons per year of any air ean Air Act and may affect rea? (FORM 5)	X	41	42	J	Is this facility a proposed st NOT one of the 28 industrial instructions and which will polyear of any air pollutant regula and may affect or be located (FORM 5)	al categories listed in the tentially emit 250 tons per ted under the Clean Air Act	43	**	45	
III. NAME OF 1	os alamos n	NATIONAL LABORA	TOR	ı l Y	j-j-j-	I)	11111111		69			
Part 1	0 L + 2 S - 2 - 1	A NAME & TITLE (last,	first, c	& title)			В	3. PHONE (area code & no)				
F 11 37 37 32 3	, KAREN- P	ERMITTING AND	COMI	ZL.TA	NGE P	₹0	EAST STATE OF THE	05) 665-7314				
V FACILTY MA	ILING ADDRESS	22					45 46	48 49 51 52- 5	5			
c U.S. D	OE NNSA LOS	A STREET OR P. S ALAMOS SITE C		1	नक्त	1	45					
c LOS AL	amos	B CITY OR TOWN	T.		111	ī	C STATE D. ZI NM 8754	P CODE 4				
VI FACILITY	LOCATION											
c 5 3747 W	A STREE		T	TT	IDENTIFIE	R	45					
LOS ALAM	os III	B COUNTY	NAME	To	T	T	m					
c Los AL	amos III	C CITY OR TOWN	Î	T	111	T	NM 8754			f knowr	1)	
15 16	1 (8 00)			-			40 41 42	A1	el ITINII	IF 61:	DEV	-005

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Alamos Field Office

COMMENTS FOR OFFICIAL USE ONLY

3-25-2019

EPA LD. 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.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

_			
1	CHITCAL	LOCATION	
ш	DUITAL	LUCATION	

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		B. LATITUDE		C.	LONGITUDE		
(list)	1 DEG	2 MIN	3 SEC.	1. DEG.	2 MIN.	3. SEC.	D. RECEIVING WATER (name)
001	35.00	52.00	26.00	106.00	19.00	9.00	Perennial Reach of Sandia Canyon
							Water Quality Segment 20.6.4.126 NMAC
				5			

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, OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATMENT						
FALL NO. (list)	a OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b, LIST COL TABLE					
001	Power Plant Once Through Cocling	49.652 GPD	Dechlorination	2	E				
	Sanitary Wastewater System (SWWS)	26,432 GPD	Grit Removal	1	М				
	Treated Effluent		Mixing	1	0				
			Screening	1	Ť				
001			Sedimentation (settling)	1	Ü				
			Dechlorination	2	8				
			Disinfection (chlorine)	2	ŧ				
			Activated Sludge	á	Ā				
001			Pre-Aeration	3	8				
001		(sludge)	Composting	5	G				
		(sluáge)	Drying Beds	5	H				
		(studge)	Landfill	5.	Q				
001	Sanitary Effluent Reclamation	39,807 GPD	Evaporation	1	P				
	Facility (SERF) Treated Effluent		Reverse Osmosis (Hyperfiltration)	1	9				
			Chemical Precipitation	2	c				
			Dechlorination	2	Ē				
001	(Neutralization	2	K				
			Reduction	2	1,				
		(reuse of SWWS Effliant)	Reuse/Recycle of Treated Effluent	4	C				
			Tandfill	5	Q				
001			Pressure Filtration	5	R				
992	Strategic Computing Complex (SCC)	50,679 GPD	Dechlorination	2	6				
	Freated Cooling Tower Blowdown		Disinfection (other)	2	H				
			Reduction	2	- 16				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

	er System Reclamation		DAYS PE WEEK	REQUENCY		V- 0.1 40		AL VOLUME	
contri er Plant Once tary Wastewat uent tary Effluent Lity (SERF) E	BUTING FLOW (list) Through Con er System Reclamation				20.00000000	ACCESS TO THE RESERVE OF THE PARTY OF THE PA			
r Plant Once tary Wastewat uent tary Effluent Lity (SERF) E	(Mist) Through Con er System Reclamation	oling 7	(specify	b. MONTHS PER YEAR	a FLOW RA			y with units)	C. DURATIO
tary Wastewat went tary Effluent lity (SERF) E	er System Reclamation	oling 7	average)	(specify average)	1_LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TER AVERAGE		(in days)
uent tary Effluent Lity (SERF) E	Reclamation Effluent		. 0	12.0	0.050 MGD	0.195 MGD	49,652 GALLONS	194,524 GALLONS	365
lity (SERF) E	ffluent	(SWWS) 7	. 0	12.0	0.026 MGD	0.209 MGD	26,432 GALLONS	209,173 GALLONS	365
		on 7	x O	12.0	0.040 MGD	0.122 MGD	J. Landerica	121,914 GALLONS	365
	Blowdown	7	0	12.0 0.051 MGD 0,105 MG		0,105 MGD	39,807 GALLONS	104,804 GALLONS	365
							50,679 GALLONS		
11.00 0.00 0.00	1 1 (1	ED4 1 0				- A - 174 - D			_
		by EPA under Sect	ion 304 c		and the second second	ur facility?			
		ne expressed in te	rms of pr			ration)?			
the second secon									
yes" to Item III-B, t guideline, and inc	list the quanti dicate the affe	ty which represent cted outfalls.	s an actu	ual measurement	of your level of	production, ex	pressed in th	e terms and uni	ts used in the
			ODUCTIO	ON			2.4	FFECTED OUT	FALLS
DAY b. UNITS	OF MEASUR	RE C	OPERA		MATERIAL, ET	TC.	11 - 2		
AYA		NA					NA		
		local authority to							
uired by any Fed	r any other en enforcement o	r local authority to vironmental progra orders, enforcemen	ms which	may affect the di	scharges descri ers, stipulations,	bed in this app	dication? This	s includes, but is	
uired by any Fection of practices or administrative or (complete the follo) OF CONDITION,	r any other en- enforcement o wing table)	vironmental progra	ms which	n may affect the di ance schedule lett	scharges descri ers, stipulations,	bed in this app court orders,	olication? This and grant or	s includes, but is	not limited to
uired by any Fec ent or practices or administrative or (complete the follo	r any other en- enforcement o wing table) 2. AFF	vironmental progra orders, enforcemer	ms which nt complia	n may affect the di ance schedule lett	scharges descri ers, stipulations, m IV-B)	bed in this app court orders,	olication? This	s includes, but is loan conditions.	not limited to
	(complete Item III-I in the applicable of (complete Item III-I yes" to Item III-B, t guideline, and in	(complete Item III-B) in the applicable effluent guidell (complete Item III-C) yes" to Item III-B, list the quantit t guideline, and indicate the affe 1. AVE DAY b. UNITS OF MEASUR	(complete Item III-B) in the applicable effluent guideline expressed in te (complete Item III-C) yes" to Item III-B, list the quantity which represent t guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRO	(complete Item III-B) in the applicable effluent guideline expressed in terms of pr (complete Item III-C) yes" to Item III-B, list the quantity which represents an actit t guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION DAY b. UNITS OF MEASURE C. OPERA	(complete Item III-B) In the applicable effluent guideline expressed in terms of production (or other (complete Item III-C) Yes" to Item III-B, list the quantity which represents an actual measurement of t guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION DAY b, UNITS OF MEASURE C. OPERATION, PRODUCT, (specify)	(complete Item III-B) In the applicable effluent guideline expressed in terms of production (or other measure of open (complete Item III-C) Yes" to Item III-B, list the quantity which represents an actual measurement of your level of t guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION DAY B, UNITS OF MEASURE C, OPERATION, PRODUCT, MATERIAL, ET (specify)	in the applicable effluent guideline expressed in terms of production (or other measure of operation)? (complete Item III-C) Ves" to Item III-B, list the quantity which represents an actual measurement of your level of production, ext guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION DAY b, UNITS OF MEASURE C: OPERATION, PRODUCT, MATERIAL, ETC. (specify)	(complete Item III-B) In the applicable effluent guideline expressed in terms of production (or other measure of operation)? (complete Item III-C) V NO (go to Section IV) yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the tiguideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION DAY b, UNITS OF MEASURE C, OPERATION, PRODUCT, MATERIAL, ETC. (specify)	(complete Item III-B) In the applicable effluent guideline expressed in terms of production (or other measure of operation)? (complete Item III-C) INO (go to Section IV) yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and unit to guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION DAY b. UNITS OF MEASURE C. OPERATION, PRODUCT, MATERIAL, ETC. (Itst outfall numb

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

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

CONTINUED FROM PAGE 2

NM0890010515

Use the space below to list any of from any outfall. For every polluta	of the pollutants listed in Table 2c-3 of the instructions ant you list, briefly describe the reasons you believe it t	, which you know or have reason to be present and report any analytical	pelieve is discharged or may be dischidata in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
iline chon Disulfide esol contium yrene anium nadium	Sanitary Wastewater System (SWWS) Bffluent. A review of the waste stream profiles associated with the water treated at the SWWS identified the 7 Form 2C-3 pollutants listed in Section V.D.1.		
OTENTIAL DISCHARGES NOT	Control of the Contro		A STATE OF THE STA
v pollutant listed in Item V-C a su			
	ubstance or a component of a substance which you cu		mediate or final product or byproduct?
YES (list all such pollu		rrently use or manufacture as an intergo to Item VI-B)	mediate or final product or byproduct?
			mediate or final product or byproduct?
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VII. BIOLOGICAL TOXICITY TESTING	DATA		
Do you have any knowledge or reason to relation to your discharge within the last	o believe that any biological test for acute or chronic toxicit 3 years?	y has been made on any of your	discharges or on a receiving water in
YES (identify the test(s) and	nd describe their purposes below)	NO (go to Section VIII)	
75%, and 100%. Ceridoaphnia dubia, 24	Day Chronic Toxicity, Critical diluti 1-hr composite, 1/5 Years 24-hr composite, 1/5 Years	n 100% with a dilutio	n series of 32%, 42%, 56%,
See the DMR Summary Report	provided in Attachment D of the Fact	Sheet provided with	the permit application.
VIII. CONTRACT ANALYSIS INFORMA	TION		
Were any of the analyses reported in Ite	m V performed by a contract laboratory or consulting firm?		
	ss, and telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory A. NAME	B. ADDRESS	C, TELEPHONE	D. POLLUTANTS ANALYZED
		(area code & no.)	(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 of	locument and all attachments were prepared under my dir	ection or supervision in accorda	nce with a system designed to assure that
qualified personnel properly gather a directly responsible for gathering the ii are significant penalties for submitting	nd evaluate the information submitted. Based on my inquiformation, the information submitted is, to the best of my false information, including the possibility of fine and impris	uiry of the person or persons w knowledge and belief, true, accu	ho manage the system or those persons
A. NAME & OFFICIAL TITLE (type or p	The second secon	B. PHONE NO. (area code & no.	
	e Laboratory Director ESHQSS	(505) 667-4218	
C. SIGNATURE	inten	D. DATE SIGNED 3-20-19	
7,	0 0000		

EPA Form 3510-2C (8-90) PAGE 4 of 4

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? NO (go to Section Ιλ') YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME **B. ADDRESS** (area code & no.) (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) B. PHONE NO. (area code & no.) oodrum, Manager Los Alamos Field Office (505) 667-5105 D. DATE SIGNED EPA Form 3510-2C (8-90) PAGE 4 of 4

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same formal) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (capy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 001

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.

				2. EFFLU	ENT			3. UN (specify if		4. INTAKE (optional)			
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if avail		c, LONG TERM AVR (if available	1112.05	- Anna-w		a. LONG T AVERAGE				
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b NO OF ANALYSES	
a. Biochemical Oxygen Demand (BOD)	1.8	4.996	(D)	1			1	mg/L	lbs	NA	NA	NA	
b. Chemical Oxygen Demand (COD)	58.1	161.3					1	mg/L	lbs	NA	NA	NA	
c. Total Organic Carbon (TOC)	5.85	16.24					1	mg/L	lbs	NA	NA	NA	
d. Total Suspended Solids (7SS)	7.2	19.985	7.2	13.04	1,986	2.55	49	mg/L	lbs	NA	NA	NA	
e. Ammonia (as N)	0.207	0.5746	(0)				1	mg/L	lbs	NA	NA	NA	
f, Flow	VALUE 0.3326	(A)	VALUE 0.2171	(A)	VALUE 0.1539 (A)	365	MGD	NA	VALUE NA		NA	
g. Temperature (winter)	VALUE 15.6	(B)	VALUE 14.1	(B)	VALUE 13.4 (B).	13	°C		VALUE NA.		NA	
h. Temperature (summer)	VALUE 20.9	(B)	VALUE 20.6	(B)	VALUE 20.0 (B)	13	°C		VALUE NA		NA	
i. pH	MINIMUM 7 (C)	MAXIMUM 8.5 (C)	MINIMUM 7.3 (C)	MAXIMUM 7.9 (C)			208	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 pollutants. For other pollutants for which you must provide

	2. MA	RK "X"			3.	EFFLUENT				4 UNI	TS	5. INT/	AKE (option	al)
1. POLLUTANT AND	3	b.	a. MAXIMUM DA	NLY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM A		3022
CAS NO. (if available)	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a Bromide (24959-67-9)	X		3.62	10.05				1	mg/L	lbs	NA	NA	NA	
b. Chlorine, Total Residual	X		Ö	0	0	0	0.	Ó	208	mg/L	1bs	NA	NA	NA
c. Color	X		5	NA					1	PCU	NA	NA	NA	NA
d. Fecal Coliform	X		71.7	(K)	15.4	(K)	6.87	(K)	96	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.152	0.4219					1	mg/L	1bs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		1.69	4.69					1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

4 001110	2. MAI	RK "X"				EFFLUENT				4. UNI	TS		AKE (option	al)
1. POLLUTANT AND CAS NO.	a. BELIEVED	b BELIEVED	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c, LONG TERM A' (if availa		d. NO. OF	a CONCEN-		a, LONG TI AVERAGE V		6 No. or
(if available)	PRESENT	ABSENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSE:
g. Nitrogen, Total Organic (as M)	X		1,14	3.16					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.46	<4.05	(E)				i	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		1.83	5.079	(0)				i	mg/L	1bs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	<1.65	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		10.1	NA				1 = 1	1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.39	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.15	NA	(E)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₃) (14808-79-8)	X		12.9	35.81					1	mg/L	1bs	NA	NA	NA
L Sulfide (as S)		X	<0.033	<0.0916	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	×		i	2.776	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants		X	<0.017	<0.0472	(E)				1	mg/L	1bs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	×		<19.3	<0.0536	(G,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		16,8	0.0466	(H)		JI		1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		82.4	0.2287	(H)				1	ug/L	lbs	NA	NA	NA
r, Cobalt, Total (7440-48-4)	X		<0.3	<0.0008	(F,N)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		37.9	0.1052	(D,O)				1	ug/L	lbs	NA	NA	NA
t, Magnesium, Total (7439-95-4)	X		2930	8.133	(0)				1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		ì	0.0028	(H)				Í	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		4.78	0.0133	(D)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<0.0028	(E)				1	ug/L	1bs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<0.0056	(E,N)				1	ug/L	lbs	NA	NA	NA

PAGE V-2

EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER
NM0890010515 001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for, Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater, If you mark column 2b for acrolein, acrylonitrie, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

		2 MARK "X	"			3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (optiona	11)
1. POLLUTANT AND	a	b	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ave					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
METALS, CYANIDE	E, AND TO	TAL PHENO	DLS												
1M. Antimony, Total (7440-36-0)			X	<1	<0.003	(F)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<6e-03	(G,N)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)		5.65	X	<0.2	<6e-04	(F)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<8e-04	(F)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X	- 14	<3	<8e-03	(F,N)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		5.45	0.0151					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<0.001	(F)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<2e-04	(G,N)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<2e-03	(G,N)			1	ì	ug/L	1bs	NA	NA	NA
10M. Selenium, Total (7782-49-2)			X	<2	<6e-03	(F)			1 71	1	ug/L	1bs	NA	NA	ŃΑ
11M. Silver, Total (7440-22-4)			X	<0.3	<8e-04	(f)			1	1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
13M, Zinc, Total (7440-66-6)	0-0	X		60	0.1665				1 11	1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)		X		<1.67	<5e-03	(F,N)				1	ug/L	1bs	NA	NA	NA
15M, Phenols, Total		X		<1.67	<5e-03	(E,O)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P-			X	DESCRIBE RESU	LTS: Anal	yrigal Result = *	(1 pg/L (1)	ower than the Mol) however	, the MDL us	ed is greater	than 10 p	1/6-		

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

Dioxin (1764-01-6)

		2. MARK "X					FFLUENT				4. UN	ITS		KE (option	il)
1. POLLUTANT AND CAS NUMBER	a. TESTING	b BELIEVED	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 ((if availab		c. LONG TERM VALUE (if ave		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE \	ALUE	b. NO. O
(if available)		PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	A Control of the Control		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<5e-03	(F)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<5e-03	(F)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)		X		1.81	5e-03	(H,O)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chlorn- methyl) Ether (542-88-1)						(1)									
5V, Bromoform (75-25-2)		X		3.16	9e-03	(H)				1	ug/L	lbs	NA	NA	NA
6V Carbon Tetrachloride (56-23-5)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		1.47	4e-03	(H)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<0.005	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		0.82	2e-03	(D,0)				1	ug/L	lbs	NA	NA	NA
12V, Dichloro- bromomethane (75-27-4)		X		1.41	4e-03					1	ug/L	1bs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(I)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
15V 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<9e-04	(F)		11		1	ug/L	lbs	NA	NA	NA
16V. 1.1-Dichloro- ethylene (75-35-4)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<9e-04	(F)	1			ì	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<9e-04	(F,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)		X		<0.333	<9e-04	(F,O)				1	ug/L	1bs	NA	NA	NA
20V, Methyl Bromide (74-83-9)			X	<0.337	<9e-04	(F)				ì	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<9e-04	(E)				ì	ug/L	1bs	NA	NA.	NA

PAGE V-4

7 P. S. S. S. S.		2 MARK "X				3.8	FFLUENT				4. UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a.	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if praila		c. LONG TERM VALUE (i/ an	200023 (0.000)	1 110 05	- 004/051		a. LONG T AVERAGE V		- NO 05
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	-VOLATI	LE COMPO	UNDS (con	tinued)											
22V, Methylene Chloride (75-09-2)			X	<1.67	<5e-03	(F)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)		-	X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)		X		<0.333	<9e-04	(F,O)				1	ug/L	1bs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<9e-04	(F)				đ.	ug/L	lbs	NA	NA	NA
27V, 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
28V, 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<9e-04	(E)				1	ug/L	1bs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<9e-04	(F)				i	ug/L	1bs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(I)					ug/L	lbs	NA	NA	NA
31V. Vinyl Chloride (75-01-4)			X	<0.333	<9e-04	(F)				1	ug/L	1bs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.19	<9E-03	(F)				1	ug/L	1bs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.32	<1e-02	(F)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.19	<9E-03	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.19	<9E-03	(E)				1	ug/L	1bs	NA	NA	NA
BA. P-Chloro-M- Cresol (59-50-7)			X	<3.19	<9E-03	(E)				1	ug/L	lbs	NA.	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

	2	MARK "X	("				FFLUENT				4. UN	ITS	5. INTA	KE (options	u)
1. POLLUTANT AND	а	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 ((if availab		C. LONG TERM VALUE (If ave		Joseph Land	astroe.		a. LONG TO AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	Participation of the Control of the	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NE	EUTRAL C	OMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)	1 1 1	1	X	<0.319	<9e-04	(E)				1	ug/L	1bs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.319	<9e-04	(F)				1	ug/L	1bs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<4.15	<1e-02	(F)				i	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			×	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.32	<9e-04	(F)				1	ug/L	lbs	ŇA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.319	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.19	<9e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.19	<9e-03	(F)				i	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<5E-03	(F)				1	ug/L	1bs	NA	NA	NA
13B Bis (2-Ethyl- hexyl) Phthalate (117-81-7)		X	24	5.09	1e-02	(H)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			×	<3.19	<9e-03	(E)				1.	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.319	<9e-04	(F)				1	ug/L	1bs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			×	<0.436	<1e-03	(F)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.19	<9e-03	(E)		1		1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.319	<9e-04	(F)				1	ug/L	1bs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<9e-04	(F)				1.	ug/L	lbs	NA	NA	NA
21B. 1.3-Di-chloro- benzene (541-73-1)			X	<0.333	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA

PAGE V-6

		2. MARK "X	gii.			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ave		J NO 05	CONCEN		a. LONG T AVERAGE V	ALUE	b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<9e-04	(F)				í	ug/L	1bs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.319	<9e-04	(F)				1	ug/L	1bs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0,319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)		V .	X	<3.19	<9e-03	(E)				1	ug/L	1bs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.319	<9e-04	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.19	<9e-03	(F)				ī	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.319	<9e-04	(F)			=7:1	1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
33B, Hexachloro- benzene (118-74-1)			X	<3.19	<9e-03	(F)				1	ug/L	1bs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.19	<9e-03	(F)			1 - 1	1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.19	<9e-03	(F)				1	ug/L	1bs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.319	<9e-04	(F)				1	ug/L	lbs	NA	NA	NA
38B, Isophorone (78-59-1)			X	<3.72	<1E-02	(F)		1		1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.319	<9e-04	(E)				1	ug/L	1bs	NA.	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.19	<9e-03	(F)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.19	<9e-03	(F)				1	ug/L	1bs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.19	<9e-03	(F)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

		2 MARK "X"	7			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (aptiona	d)
1. POLLUTANT AND CAS NUMBER	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERN VALUE (if ava		1 110 05	CONCEN	'1	a, LONG T AVERAGE V		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/NI	EUTRAL CO	MPOUND	S (continued)											
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.19	<9e-03	(F,M)				i	ug/L	lbs	NA	AN	NA
44B, Phenanthrene (85-01-8)			X	<0.319	<9E-04	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.319	<9E-04	(F)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.19	<9E-03	(F)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
1P_Aldrin (309-00-2)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)		1	X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
3P_β-BHC (319-85-7)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NΑ	NA
4P. y-BHC (58-89-9)			X	<0.07	<2E-04	(G)				ı	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.07	<2E-04	(E)				1	ug/L	1bs	NA	NA	NA
6P. Chlordane (57-74-9)		18	X	<0.805	<2E-03	(G)				1	ug/L	1bs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.105	<3E-04	(G)				ì	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
9P_4,4'-DDD (72-54-8)			X	<0.105	<3E-04	(G)	lac			1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.105	<3E-04	(G)				1	ug/L	1bs	NA	NA	NA
11P_α-Enosulfan (115-29-7)			X	<0.07	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
12P_β-Endosulfan (115-29-7)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
13P, Endosulfan Sulfate (1031-07-8)			X	<0.105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0,105	<3E-04	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.07	<2E-04	(F)				ì	ug/L	1bs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.07	<2E-04	(F)				1	ug/L	lbs	NA	NA	NA

PAGE V-8

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

OUTFALL NUMBER

NM0890010515

001

CONTINUED FROM PAGE V-8

	1	MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (aptioni	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ava		1 110 05	20110511		a. LONG T AVERAGE V		L NO OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.07	<2E-04	(F)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)		X		<0.0422	<1E-04	(F,J,O)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<1.58	<4E-03	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL -001

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
D	Value provided was estimated by the analytical laboratory.
Е	The analytical result provided is below the Method Detection Limit (MDL). There is not an EPA Region 6 approved Method Quantification Limit (MQL). The value provided is the MDL.
F	The analytical result provided is below the MDL and the EPA Region 6 approved MQL. The value provided in the MDL.
G	The analytical result provided is below the MDL but is above the EPA Region 6 approved MQL. The value provided is the MDL.
Н	The analytical result provided is above the MDL but is below the EPA Region 6 MQL.
10	The EPA has remanded this parameter. See 40 CFR Part 122, Appendix D.
J	Results were obtained using the EPA Aroclor Method 608.3 as required by the Form 2C.
K	The E. Coli result is provided as an indicator for Fecal Coliform.
L	Result is for cis- and trans-1,3 dichloropropylene.
М	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

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.

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS

NPDES	Consolidated Permits Program
OUTFALL LOCATION	

A. OUTFALL NUMBER	B. LATITUDE			C. LONGITUDE			D. DECENTRIC MATER (
(list)	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3 SEC.	D. RECEIVING WATER (name)	
03A027	35.00	52.00	26.00	106.00	19.00	9.00	Perennial Reach of Sandia Canyon	
							Water Quality Segment 20.6.4.126 NMAC	

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- 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.
- 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. OUT-	2. OPERATION(S) CONTR	RIBUTING FLOW	3. TREATME	NT	
FALL NO. (list)		b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COI	DES FROM 2C-1
03A027	Strategic Computing Complex (SCC)	50,679 GPD	Dechlorination	2	Е
	Treated Cooling Tower Blowdown		Disinfection (other)	2	Н
			Reduction	2	L

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

			2.0	FREQUENCY			4. FLOW		
			a. DAYS P				B. TOTAL	VOLUME	
6 Supility		PERATION(s)	WEEK	b. MONTHS	a. FLOW RA	TE (in mgd)	(specify w		F 20276
1. OUTFALL NUMBER (list)	CONTRI	(list)	(specify average		1, LONG TERM AVERAGE	2 MAXIMUM DAILY	1, LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATION (in days)
3A027	Treated Cooling T	Cower Blowd	7.0	12.0	0.051 MGD	0.105 MGD	50,679 GALLONS	104,804 GALLONS	365
II. PRODUCTIO									
A. Does an effl	uent guideline limitation YES (complete Item III-		by EPA under Section 304	of the Clean Water NO (go to Se		ur facility?			
B. Are the limit	ations in the applicable of		ine expressed in terms of p	oroduction (or other		eration)?			
C. If you answ			ity which represents an ac			production, ex	pressed in the t	erms and ur	nits used in the
applicable e	effluent guideline, and in	dicate the affe	ected outfalls.		.,,	production, or			
		1. AV	ERAGE DAILY PRODUCT				1	ECTED OU	
a, QUANTITY	PER DAY 6. UNITS	OF MEASUR	RE C. OPER	ATION, PRODUCT (specify)	, MATERIAL, E	IC.	(li	st outfall num	bers)
NA									
	NA		NA				NA		
IV. IMPROVEM A. Are you no treatment e	MENTS by any Fed	r any other er	or local authority to meet	ch may affect the d	ischarges descri	bed in this app	on, upgrading o	cludes, but i	s not limited to
IV. IMPROVEM A. Are you no treatment e	MENTS by any Fed	r any other er enforcement	or local authority to meet	ch may affect the d	ischarges descri ters, stipulations	bed in this app	on, upgrading o	cludes, but i	s not limited to
IV. IMPROVEM A. Are you not treatment e permit cond 1. IDENTIFICA	MENTS ow required by any Feduipment or practices of ditions, administrative or	r any other er enforcement wing table)	or local authority to meet ovironmental programs whice orders, enforcement comp	ch may affect the diance schedule letter NO (go to Ite	ischarges descri ters, stipulations	bed in this app court orders,	on, upgrading o dication? This in and grant or loa	n conditions	s not limited to
IV. IMPROVEM A. Are you not treatment e permit cond 1. IDENTIFICA	MENTS Dow required by any Fet equipment or practices of ditions, administrative or administrative of the following of the fo	r any other er enforcement wing table)	or local authority to meet vironmental programs which orders, enforcement comp	ch may affect the diance schedule letter NO (go to Ite	ischarges descriters, stipulations IV-B)	bed in this app court orders,	on, upgrading o dication? This in and grant or loa	ncludes, but in conditions.	s not limited to

PAGE 2 of 4

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

CONTINUED FROM PAGE 2

NM0890010515

from any outfall East avenue II. 4	and V-C are included on separate sheets numbered V- of the pollutants listed in Table 2c-3 of the instructions,	which you know or have reason to be	lieve is discharged or may be discharged
	ant you list, briefly describe the reasons you believe it to	be present and report any analytical d	lata in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Aniline Carbon Disulfide Cresol Strontium Styrene Uranium Vanadium	Sanitary Effluent Reclamation Facility (SERF) Effluent Makeup Water: The effluent from the Sanitary Wastewater System (SWWS) treatment plant is routed to SERF for additional treatment so that it can be recycled and used as makeup water at the SCC Cooling Towers. A review of the waste stream profiles associated with the water treated at the SWWS identified the 7 Form 2C-3 pollutants listed in Section V.D.1.		
VI. POTENTIAL DISCHARGES NOT Is any pollutant listed in Item V-C a s YES (list all such poll NA	ubstance or a component of a substance which you cur	rrently use or manufacture as an interm o to Item VI-B)	nediate or final product or byproduct?

CONTINUED FROM THE FRONT

VIL BIOLOGICAL TOXICITY TESTING E	DATA		
relation to your discharge within the last			and the second s
▼ YES (identify the test(s) an	d describe their purposes below)	NO (go to Section VIII)	
Whole Effluent Toxicity 7 17%, 23%, and 31%.	Day Chronic Toxicity. Critical diluti	on of 23% with diluti	on series of 10%, 13%,
	-hr composite, 1/5 Years 3-hr composite, 1/5 Years		
	027 was performed on March 16, 18, and	20 of 2015 per the r	ermit requirements. The
results indicated that the Pimephales promelas. No f	effluent from Outfall 03A027 passed urther WET testing has been performed heet provided with the permit applica	the test for both Cer . See the WET Test S	idoaphnia dubia and
VIII CONTRACT ANALYSIS INFORMA			
Were any of the analyses reported in Ite	m V performed by a contract laboratory or consulting firm	7	
	is, and telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory		C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no.)	(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			
qualified personnel properly gather an directly responsible for gathering the in	ocument and all attachments were prepared under my dii d evaluate the information submitted. Based on my inq formation, the information submitted is, to the best of my false information, including the possibility of fine and impri	uiry of the person or persons w knowledge and belief, true, accu	ho manage the system or those persons
A. NAME & OFFICIAL TITLE (type or pr		B. PHONE NO. (area code & no.	
Michael W. Hazen, Associat	e Laboratory Director ESHQSS	(505) 667-4218	
C. SIGNATURE	. ,	D. DATE SIGNED	
EPA Form 3510-2C (8-90)	PAGE 4 of 4	3-20-19	

EPA Form 3510-2C (8-90)

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? NO (go to Section IX) YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME B. ADDRESS (area code & no.) (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) B. PHONE NO. (area code & no.) (505) 667-5105 Goodrum, Manager Los Alamos Field Office D. DATE SIGNED C. SIGNATUR PAGE 4 of 4

EPA Form 3510-2C (8-90)

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.

EPA I.D. NUMBER (cop), from Item 1 of Form 1) NYO850010515

V INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

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			2. EFFLU	IENT			3. UN (specify if			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if avail		c. LONG TERM AVR		1 10 05	000050		a. LONG T AVERAGE		
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	3.37	2.95					1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	47.4	41.5					1	mg/L	1bs	NA	NA	NA
c. Total Organic Carbon (TOC)	12.7	11.1					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	5.52(A)	4.83	4.86(A)	2.93	2.31(A)	0.976	10	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.112	0.098	(P)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.105	(A)	VALUE 0.072	(A)	VALUE 0.051 (2	A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 19 (I	3)	VALUE 18.1	(B)	VALUE 17.3 (B)	13	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 24.6	(B)	VALUE 23.0	(B)	VALUE 22.8 (B)	15	°C		VALUE NA		NA
i. pH	MINIMUM 7.4 (C)	MAXIMUM 9.1 (C)	MINIMUM 7.7 (C)	MAXIMUM B.3 (C)		7717	51	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.

12 TO 1 TO 1	2. MA	RK "X"			3,	EFFLUENT				4. UNI	TS	5. INT.	AKE (option	al)
1. POLLUTANT AND	a	ь.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM AV (if availar	PARTY AND THE	0.000			a. LONG TERM A		I had be
CAS NO. (if available)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		2.98	2.61					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0 (9)	O	0 (P)	0	0 (P)	0	103	mg/L	lbs	NA	NA	NA
c. Color	X		<5	NA	(F,E,O)					PCU	NA	NA	NA	NA
d. Fecal Coliform	X		6.3(A,L)	NA	6.3(A,L)	NA	1.9(A,L)	NA	48	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.107	0.094					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		0.950	0.831	(P)				1	mg/L	1bd	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

	2 MAI	RK "X"				EFFLUENT				4. UNI	TS		AKE (option	al)
1. POLLUTANT AND CAS NO.	a	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa	DAY VALUE ble)	c. LONG TERM A (if availa		d. NO. OF	a. CONCEN-		a. LONG TE AVERAGE V		b. NO. OF
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
g. Nitrogen, Total Organic (as N)	X		2.27	1.99					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.41	<1.23	(E)					mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		3.55(A,P)	3.10	3.55(A,P)	2.14	2.19(A,P)	0.928	9	mg/L	1bs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total	X		2.79(A)	NA	2.79(A)	NA	1.9(A)	NA	2	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		12.3	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		5.72	NA					Ţ	pCI/L	NA	NA	NA	NA
(4) Radium 226, Total	X		5.47	NA	1				1	pCi/L	NA	NA	NA	NA
k, Sulfate (as SO ₄) (14808-79-8)	×		18.0	15.74					1	mg/L	lbs	NA	NA	NA
l. Sulfide (as S)		X	<0.033	<0.0289	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	×		6.0	5.25	(P)				i	mg/L	lbs	NA	NA	NA
n, Surfactants	X		0.0204	0.018					1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	×		23.2 (A)	0.0203	23.2 (A)	0.014	19.4 (A)	0.0082	3	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		8.92	0.0078	(1)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		109	0.0953					ī	ug/L	1bs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<0.0003	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X	LIT	<33	<0.0289	(E,O,P)				ą.	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	×		2050	1.79	(P)				i	ug/L	lbs	NA	NA.	NA
u. Molybdenum, Total (7439-98-7)	X		0.868	0.0008	(1)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		3.63	0.0032	(D)				i	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<0.0009	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	×		<2	<0.0017	(E,O)				1	ug/L	lbs	NA	NA	NA

PAGE V-2

EPA I.D. NUMBER (copy from Nem 1 of Form 1) OUTFALL NUMBER
NM0890010515 03A027

CONTINUED FROM PAGE 3 OF FORM 2-C.

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for, Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

L = 15V +52		2. MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	KE (options	al)
1. POLLUTANT AND	a	b	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if av		1 110 05	CONOCTI		a. LONG T AVERAGE \		1, 10, 00
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
METALS, CYANID	E, AND TO	TAL PHENC	DLS												
1M. Antimony, Total (7440-36-0)			X	<1	<9e-4	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<0.002	(H,O)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0,2	<2e-4	(G)			1	1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		<3	<0.003	(G,O)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		16.3	0.0143		1-11			1	ug/L	lbs	NA	NA	NA
7M, Lead, Total (7439-92-1)			X	<0.5	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<1e-4	(H,O)	==1			1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<5e-4	(H,O)				1	ug/L	1bs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<0.002	(G,O)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<5e-4	(H)				1	ug/L	1bs	NA	NA	NA
13M, Zinc, Total (7440-66-6)		X		206	0.180					1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<0.002	(G)				1	ug/L	lbs	NA	NA	NA
15M, Phenols, Total		X		5.03	0.0044	(P)				1	ug/L	1bs	NA	NA	NA
DIOXIN															
2;3,7,8-Tetra- chlorodibenzo-P-			X	DESCRIBE RESU	LTS Ana	lytical Result =	<10.6 pg/L	(less than the N	IDLI - hower	ver, the det	ection limit	MMTI) Was g	greater than the	EPA Region	& MQL

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

Dioxin (1764-01-6)

a par musice	1	2. MARK "X	•				FFLUENT				4. UN	ITS		AKE (optiona	d)
1. POLLUTANT AND CAS NUMBER	a,	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 l (if availa		c. LONG TERN VALUE (if ave		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		
(if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. O
GC/MS FRACTION	-VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<2e-3	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2e-3	(G)				1	ug/L	lbs	NA	NA	NA
3V Benzene (71-43-2)		X		<0.333	<3E-4	(G,O,P)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(ਹ)									
5V_ Bromoform (75-25-2)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA.	NA
7V_Chlorobenzene (108-90-7)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<3e-4	(G)				1	ug/L	1bs	NA	NA	NA
9V_Chloroethane (75-00-3)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
10V 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<1e-3	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		<0.333	<3e-4	(E,O,P)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromornethane (75-27-4)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NA	NA.	NA
13V. Dichloro- difluoromethane (75-71-8)						(3)									
14V 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<3e-4	(E)				1	ug/L	lbs	NÁ	NA	NA
15V 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
17V_1,2-Dichloro- propane (78-87-5)			X	<0.333	<3e-4	(G)			1	1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<3e-4	(G,M)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)		X		<0.333	<3e-4	(G,O,P)				1	ug/L	lbs	ŅA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<3e-4	(G)			/1-	1	ug/L	lbs	NA	ŇĀ	NA
21V, Methyl Chloride (74-87-3)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA

PAGE V-4

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

NO Section 1		2. MARK "X					FFLUENT				4. UN	ITS		AKE (option	ul)
1. POLLUTANT AND	a	Ď,	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave		4 NO CE	- CONCEN		a. LONG T AVERAGE \		L NO O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO, OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. O
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS (con	timued)											
22V. Methylene Chloride (75-09-2)		X		2.94	3e-3	(1)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)		X		<0.333	<3e-4	(G,O,P)				1	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<3e-4	(G)				i	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<3e-4	(G)				i	ug/L	lbs	NA	NA	NA
28V 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<3e-4	(E)	-			1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
2A 2,4-Dichloro- phenol (120-83-2)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.0	<3e-3	(G)				1	ug/L	1bs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.0	<4e-3	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.0	<3e-6	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.0	<3e-3	(E)				1	ug/L	1bs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.0	<3e-3	(G)	1			1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)		- = 4	X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)	- 1		X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Los Alamos inal Laboratory EPA ID No. 1840/0890010515 CONTINUED FROM THE FRONT

4 00111074	- 3	2. MARK "X					FFLUENT				4 UN	ITS		KE (optiona	if)
1. POLLUTANT AND CAS NUMBER	a. TESTING	b.	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b MAXIMUM 30 I (if availal		c. LONG TERN VALUE (if ava		d NO. OF	a. CONCEN-		a. LONG T AVERAGE \		b. NO. OF
(if available)	REQUIRED	BELIEVED PRESENT	ABSENT	concentration	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.3	<3e-4	(B)				i	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.9	<3e-3	(B)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)	hari		X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
7B, 3,4-Benzo- fluoranthene (205-99-2)			×	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
9B, Benzo (k) Fluoranthene (207-08-9)			X	<3.0	<3e-3	(B)				ì	ug/L	lbs	NA	NA	NA
10B. Bis (3-Chloro- ethoxy) Methane (111-91-1)			X	<0.003	<3e-6	(B)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<0.3	<3e-4	(B)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<1e-03	(E)				i	ug/L	lbs	NA	NA	NA
13B, Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.3	<3e-4	(G)				1	ug/L	1bs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.41	<4e-4	(G)				1	ug/L	1bs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<3e-3	(E)				1	ug/L	1bs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
20B, 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
21B, 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

N. D. T. Ver		2. MARK "X	TM.				FFLUENT				4. UN	ITS		KE (option	il)
1, POLLUTANT AND	а	ь	c	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ava		1 110 05	CONOCH		a, LONG T AVERAGE V	ERM ALUE	L NO 0
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	CONCENTRATION	(2) MASS	b. NO. O ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<3E-4	(G)				1	ug/L	1bs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
25B, Dimethyl Phthalate (131 -11-3)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
26B; Di-N-Butyl Phthalate (84-74-2)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.0	<3e-3	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.3	<3e-4	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<3e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B, Fluoranthene (206-44-0)			X	<0.3	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.3	<3e-4	(G)	134			1	ug/L	lbs	NA	NA	NA
33B, Hexachloro- benzene (118-74-1)			X	<3.0	<3e-3	(G)				Ĺ	ug/L	lbs	NA	NA	NA
34B. Hexachloro- outadiene (87-68-3)			X	<3.0	<3e-3	(G)				1	ug/L	1bs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.3	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone 78-59-1)			X	<3.5	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene 91-20-3)			X	<0.3	<ee-4< td=""><td>(E)</td><td></td><td></td><td></td><td>1</td><td>ug/L</td><td>1bs</td><td>NA</td><td>NA</td><td>NA</td></ee-4<>	(E)				1	ug/L	1bs	NA	NA	NA
10B, Nitrobenzene 98-95-3)			X	<3.0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA
11B. N-Nitro- sodimethylamine 62-75-9)			X	<3.0	<3e-3	(G)				1	ug/L	1bs	NA	NA	NA
12B. N-Nitrosodi- N-Propylamine 621-64-7)			X	<3,0	<3e-3	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

Or and Otto		2. MARK "X"	9			3. E	FFLUENT				4. UN	ITS	5. INTA	КЕ (ориони	al)
1. POLLUTANT AND CAS NUMBER	a	b	C	a. MAXIMUM DA	NLY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if av		115.00	a a war a		a. LONG T AVERAGE V	ERM	15
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	MPOUND	S (continued)										(4) 300,000	
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<3E-03	(G,N)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.3	3e-4	(E)				1	ug/L	1bs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.3	3e-4	(G)				1.	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.0	3e-3	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
2P, α-BHC (319-84-6)			X	<0.00739	<6e-6	(G)				1	ug/L	1bs	NA	NA	NA
3P, β-BHC (319-85-7)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00739	<6e-6	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.085	<7e-5	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0111	<1e-5	(G)				1	ug/L	1bs	NA	NA	NA
8P, 4,4'-DDE (72-55-9)			X	<0.0111	<1e-5	(G)				1	ug/L	1bs	NA	NA	NA
9P, 4,4'-DDD (72-54-8)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	AK	NA
10P, Dieldrin (60-57-1)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)		-11-1	X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0111	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
16P, Heptachlor (76-44-8)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA

PAGE V-8

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

OUTFALL NUMBER

03A027

CONTINUED FRO	M PAGE V-	8			INPI	0890010515		03A	027						
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	2. MARK "X	"			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (option	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava	0.5/23.0.2.303		20110511		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	nued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00739	<6e-6	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)		X	Time	<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
21P, PCB-1232 (11141-16-5)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)		X		<0.0362	<3e-5	(G, K, P)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)		1000	X	<0.167	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A027

Α	Calculated using data collected between October 2015 and September 2016.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2015 and September 2016.
С	The pH values provided were determined using data collected between October 2015 and September 2016.
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
G	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
Н	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.
1	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	Results were obtained using the EPA Aroclor Method 608.3 as required by the Form 2C. Please note, however, that PCBs are believed to be present due to the use of recycled treated effluent from SWWS as makeup water in the cooling towers.
Ĺ	The E. Coli result is provided as an indicator for Fecal Coliform.
М	Result is for cis- and trans-1,3 dichloropropylene.
N	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).
o	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.
Р	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215
Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application

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

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

26	VEFA
NPDES	

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	B. LATITUDE			C. LONGITUDE				
(list)	1, DEG,	2 MIN	3 SEC	1 DEG.	2 MIN.	3. SEC.	D. RECEIVING WATER (name)	
03A048	35,00	52.00	11.00	106.00	15.00	45.00	Ephemeral Tributary to Los Alamos	
					-		Canyon, Water Quality Segment	
							Number 20.6.4.128 NMAC	

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- 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.

44,000					
a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1		
TA-53-963/964 West and 978/979 East		Dechlorination	2	B	
Cooling Towers		Disinfection (other)	2	H	
- Treated Cooling Tower Blowdown		Reduction	2	L	
	[
	Cooling Towers - Treated Cooling Tower Elewdown	Cooling Towers	Cooling Towers — Treated Cooling Tower Blowdown Reduction Reduction Reduction Reduction	Cooling Towers - Treated Cooling Tower Slowdown Reduction Reduction 2 Cooling Tower Slowdown 2	

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

	YES (camplete the follow	100		a me	NO (go to Sed			4 FLOW			
1. OUTFALL NUMBER (list)									VOLUME		
		ERATION(s)		a DAYS PE WEEK	b MONTHS	a. FLOW RA	TE (in mgd)	B TOTAL VOLUME (specify with units)		1000000	
	CONTRI	BUTING FLOW (list)		(specify average)	PER YEAR (specify average)	1, LONG TERM AVERAGE	2, MAXIMUM DAILY	1 LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATIO (in days)	
34048	TA-53-963/964 Wost and 978/979 Bast Cooling Towers - Treated Cooling Tower Blowdown			7	12	0.088 MGD	0.169 MGD	87,606 GALLONS	168,900 GALLONS	365.	
II. PRODUCTI	ON ON									100	
A. Does an eff	luent guideline limitation YES (complete Item III-b		by EPA under S	ection 304 o	of the Clean Water NO (go to Se	the second second second second second	ur facility?				
B. Are the limit	ations in the applicable e	7 7 1 1 1 7 7	line expressed in	terms of pr		measure of ope	eration)?				
C. If you answ applicable	vered "yes" to Item III-B, effluent guideline, and inc	list the quan	tity which repres	ents an actu	100		production, ex	pressed in the	terms and ur	its used in the	
		1. AV	ERAGE DAILY F	and the second second second second				2 AF	FECTED OU	TEALLS	
a. QUANTITY	Y PER DAY b. UNITS OF MEASURE		RE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)					(list outfall numbers)		
NA	NA		NA				MA				
treatment e	MENTS ow required by any Fece auipment or practices or ditions, administrative or	r any other e	nvironmental pro	grams which	may affect the d	ischarges descr	ibed in this app	plication? This i	ncludes, but i	s not limited t	
4 IDENTIFIE	YES (complete the following table)		ECCTED OUTEA	V NO (go to lie		em IV-B)			4. FINAL COMPLIANCE I		
IDENTIFICATION OF CONDITION, AGREEMENT, ETC.		2. AFFECTED OUTFALLS B NO			3. BRIEF	F DESCRIPTION	a REQUIRED b. PROJECTE				
NIA		NA:	NA NA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NA.					NA	
		12 11									

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

CONTINUED FROM PAGE 2

NM0890010515

4 POLILITANT	ant you list, briefly describe the reasons you	e instructions, which you know or have reason ou believe it to be present and report any analy	n to believe is discharged or may be discharg ytical data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2, SOURCE
	NA.	NA	NA
POTENTIAL DISCHARGES NOT			
y pollutant listed in Item V-C a si YES (list all such poll)		which you currently use or manufacture as an NO (go to Item VI-B)	intermediate or final product or byproduct?

	3 years?		
YES (identify the test(s) ar	nd describe their purposes below)	NO (go to Section VIII)	
	em V performed by a contract laboratory or consulting firm? ss, and telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
A. NAME	B. ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED
A, NAIVIE	B. ADDRESS	(area code & no.)	(list)
EL Laboratories LLC	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(area code & no.) (843) 556-8171 (910) 795-0421	
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	2040 Savage Road, Charleston SC 29407	(843)556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. C. CERTIFICATION certify under penalty of law that this of the property gather are significant penalties for submitting are significant penalties for submitting	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my keep false information, including the possibility of fine and imprise	(910) 795-0421 (910) 795-0421 (505) 929-4545 ection or supervision in accordativy of the person or persons we knowledge and belief, true, accomment for knowing violations.	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete I am aware that the
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. Certify under penalty of law that this capabilitied personnel properly gather and in acceptable for submitting and submitting the significant penalties for submitting to the NAME & OFFICIAL TITLE (type or particular penalties).	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my keep false information, including the possibility of fine and imprisition)	(910) 795-0421 (505) 929-4545 (505) 929-4545 ection or supervision in accordary of the person or persons we knowledge and belief, true, accurate for knowing violations. B. PHONE NO. (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete I am aware that the
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. Certify under penalty of law that this capabilitied personnel properly gather and in acceptable for submitting and submitting the significant penalties for submitting to the NAME & OFFICIAL TITLE (type or particular penalties).	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my keep false information, including the possibility of fine and imprisited. Laboratory Director ESHQSS	(910) 795-0421 (910) 795-0421 (505) 929-4545 ection or supervision in accordativy of the person or persons we knowledge and belief, true, accomment for knowing violations.	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete I am aware that the

CONTINUED FROM THE FRONT			
VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to belie relation to your discharge within the last 3 year	eve that any biological test for acute or	chronic toxicity has been made on any of your o	lischarges or on a receiving water in
YES (identify the test(s) and desc		NO (go to Section VIII)	
EXTR	A PAGE FOR	SIGNATURE O	NLY
VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V po	erformed by a contract laboratory or co	onsulting firm?	
YES (list the name, address, and each such laboratory or firm	telephone number of, and pollutants analy below)	zed by, NO (go to Section 1X)	
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
X. CERTIFICATION			·
qualified personnel properly gather and evalu	uate the information submitted. Based ion, the information submitted is, to the	under my direction or supervision in accordance d on my inquiry of the person or persons who e best of my knowledge and belief, true, accurat ne and imprisonment for knowing violations.	manage the system or those person.
A. NAME & OFFICIAL TITLE (type or print)	and positionly of m	B. PHONE NO. (area code & no.)	
William S. Goodrum, Manager Los	s Alamos Field Office	(505) 667-5105	
C. SIGNATURE		D. DATE SIGNED	
William	~	3-25-19	

PAGE 4 of 4

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.

EPA LD. NUMBER (copy from Item 1 of Form 1) NM0890010515

V INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 03A048

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.

				2. EFFLU	ENT			3. UN (specify if			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if avail		c. LONG TERM AVR (if available		1 110 00	CONTOCAL		a LONG T AVERAGE		1 NO OF
1_ POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO, OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.86	2.62	(D)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	24.6	34.7					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	2.78	3.92					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	5.90	8.32	5.9	7.06	1.96	1.43	17	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0,0382	0.054	(D)	1			1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.1689	(A)	VALUE 0.1434	(A)	VALUE 0.0876 (A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 17.9	(B)	VALUE 16.7	(B)	VALUE 16.1 (B)	13	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 23.5	(B)	VALUE 22.6	(B)	VALUE 21.7 (B)	12	°C	4	VALUE NA		NA
i. pH	MINIMUM 6.9 (C)	MAXIMUM 8.9 (C)	MINIMUM 7.3 (C)	MAXIMUM 8.7 (C)			208	STANDARD	OUNITS			

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.

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INT	AKE (option	al)
1, POLLUTANT AND	a	b.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM AV (if availal		3 100 0F			a. LONG TERM A VALUE	31.4 22.5 22.6 22.6	
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9) b. Chlorine, Total	X		4.22	5.95					1	mg/L	1bs	NA	NA	NA
	X		0 (0)	0.00	0.00 (0)	0.00	0.00 (0)	0.00	209	mg/L	1bs	NA	NA	NA
c. Color		X	<5	NA	(E)				i	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	1	NA	(K)				1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X	1 77	0.59	0.832					1	mg/L	1bs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X	T-s	3.11	4.38	1				1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

	2. MA	RK "X"				EFFLUENT				4. UNI	TS	5, INT.	AKE (option	al)
1_POLLUTANT AND CAS NO.	a	ь.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa		d. NO. OF	- CONCEN		a. LONG TI AVERAGE V		- No. 05
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.334	0.471					1	mg/L	1bs	NA	NA	NA
h. Oil and Grease		X	<1.44	NA	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.192	0.271	0.192	0.23	0.136	0.0997	17	mg/L	1bs	NA	NA	NA
j, Radioactivity							- 1							
(1) Alpha, Total		X	<1.85	NA	(E)			= -41	1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		16.8	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.189	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		<0.103	NA	(E,N)				1	pCi/L	NA	NA	NA	NA
k, Sulfate (as SO ₂) (14808-79-8)	×		35.5	50.00					1	mg/L	lbs	NA	NA	NA
l. Sulfide (as S)		X	<0.033	<5e-02	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		13.8	19.45	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		<0.017	<0.02	(F,N)				1	mg/L	lbs	NA	NA	NA
o, Aluminum, Total (7429-90-5)	×		<19.30	<0.0272	(H,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		76.4	0.108	(1)				1.	ug/L	1bs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		66.4	0.0936	(1)				1	ug/L	lbs	NA	NA	NA
r_Cobalt, Total (7440-48-4)		X	<0.3	<4.2e-4	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)		X	<33	<0.0465	(E)				1	ug/L	lbs	NA	NA	AN
t Magnesium, Total (7439-95-4)	×		11800	16.5					1	ug/L	1bs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		2.45	3.45e-3					1	ug/L	lbs	NĀ	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<1.4e-3	(E)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<1.4e-3	(E)				1)	ug/L	1bs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<2.8e-3	(E,N)				1	ug/L	lbs	NA	NA	NA

PAGE V-2

EPA I.D. NUMBER (copy from item 1 of Form 1) OUTFALL NUMBER
NM0890010515 03A048

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must test for all such GC/MS fractions you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe it will be discharged in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must provide the results of at least one analysis for each of these pollutants which you mark column 2b, you must provide the results of at least one analysis for each of these pollutants which you mark column 2b, you must provide the results of at least one analysis for each of these pollutants which you mark column 2b, you must provide the results of at least one analysis for each of the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Compl

Line Live		2. MARK "X	*			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	d)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ava					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
METALS, CYANIDI	E, AND TO	TAL PHENC	DLS												
1M. Antimony, Total (7440-36-0)			X	<1	<1e-03	(G)	1			1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X	1775	4.26	0.006	6.2	7.4e-3	4.06	3e-3	5	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)		LA	X	<0.3	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		9.43	1.3e-2	(D,I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		1.06	1.5e-3					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<7e-04	(G)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)			X	<0.067	<9e-05	(H)				ĭ	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<8e-04	(H,N)				1	ug/L	1bs	NA	NA	NA
10M, Selenium, Total (7782-49-2)		X		<2	<3e-03	(G,N)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)		1	X	<0.3	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<8e-04	(H)				1	ug/L	1bs	NA	NA	NA
13M. Zinc, Total (7440-66-6)			X	<3.3	<5e-03	(G)				ì	ug/L	1bs	NA	NA	NA
14M. Cyanide, Total (57-12-5)		X		<1.67	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenois, Total			X	<1.67	<2e-03	(E)				1	ug/L	1bs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P-			X	DESCRIBE RESI	JLTS Ana	Myrical Result =	alc.6 pg/L	was less than th	e MDI. T	te WDL used	is greater th	an the EPA	MQL of 10 pg/l		

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

Dioxin (1764-01-6)

4 DOLLUTANT	3	2. MARK "X					FFLUENT				4 UN	ITS		KE (opnone	d)
1 POLLUTANT AND CAS NUMBER	a TESTING	b. BELIEVED	c BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if av		d. NO. OF	a. CONCEN-		a. LONG T		b. NO. O
(if available)	REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<2e-03	(G)				1	ug/L	1bs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.333	<5e-04	(G)			LI	1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(1)							1		
5V. Bromoform (75-25-2)		X	1 ==	<0.333	<5e-04	(G,N)				1	ug/L	1bs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			×	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
10V 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(٦)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<5e-04	(G)				1	ug/L	1bs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<5e-04	(G, L)				1	ug/L	1bs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<5e-04	(G)				1	ug/L	1bs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0,333	<5e-04	(E)			2	1	ug/L	1bs	NA	NA	NA

PAGE V-4

Color of the Color		2. MARK "X				3. E	FFLUENT				4. UN	IITS	5. INTA	KE (opnom	ul)
1. POLLUTANT AND	a	b.	c	a. MAXIMUM DA	NLY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if an		1 10 05	- aguaru		a. LONG T AVERAGE V		L 110 0
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS (cont	inued)											
22V, Methylene Chloride (75-09-2)		L = 4	X	<1.67	2e-03	(G)				1	ug/L	lbs	NA	NA	NA
23V, 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<5e-04	(G)				i	ug/L	1bs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)		321	X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<5e-04	(G)				ĺ	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			×	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<5e-04	(G)				1	ug/L	1bs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<5e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<5e-04	(G)				ì	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V Vinyl Chloride (75-01-4)			X	<0.333	<5e-04	(G)	3-11			1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<4e-03	(G)			LEA	1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4.6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<4e-03	(G)			-	1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<7e-03	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.00	<4e-03	(E)			3-4	1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<4e-03	(G)				i	ug/L	1bs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
11A, 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

		2. MARK "X	1				FFLUENT				4. UN	ITS		AKE (options	tl)
1. POLLUTANT AND CAS NUMBER	a. TESTING	b. BELIEVED	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ava		d, NO. OF	a. CONCEN-		a. LONG T AVERAGE \		b. NO. OF
(if available)	REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S	4										
1B. Acenaphthene (83-32-9)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.30	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.30	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
4B, Benzidine (92-87-5)			X	<3.90	<5e-03	(G)				1	ug/L	1bs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			×	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
68. Benzo (a) Pyrene (50-32-8)			X	<0.30	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			×	<0.30	<4e-04	(G)				i	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.30	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			×	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.0	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-C'hloro- ethyl) Ether (111-44-4)			×	0.E>	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
12B, Bis (2- Chloroisopropyl) Ether (102-80-1)			×	<1.67	<2e+03	(G)				ì	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			×	<3.0	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.30	<4e-04	(G)				1	ug/L	1bs	NA	NA	Na
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.410	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.30	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.30	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<5e-04	(G)	1			ĺ	ug/L	lbs	NA	NA	NA
21B, 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<5e-04	(G)				1	ug/L	lbs	NA	NA	NA

PAGE V-6

Los Alamos National Laboratory EPA ID No. NM00890010515 CONTINUED FROM PAGE V-6

1 POLITIANT		2. MARK "X	0			3. E	FFLUENT				4_ UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	а	b.	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availar		c. LONG TERM VALUE (if ave					a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)	100		X	<0.333	<5e-04	(G)				1	ug/L	1bs	NA	NA	NA
23B, 3,3-Dichloro- benzidine (91-94-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	Na
26B, Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<4e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B, Fluoranthene (206-44-0)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
32B, Fluorene (86-73-7)			X	<0.300	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
34B, Hexachloro- butadiene (87-68-3)			X	<3.00	<4e-03	(G)				1	ug/L	1bs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<4e-04	(G)		1		1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.50	<5e-03	(G)				1	ug/L	1bs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.300	<4e-04	(E)				1	ug/L	1bs	NA	NA	NA
40B, Nitrobenzene (98-95-3)			X	<3.00	<4e-03	(G)				1	ug/L	1bs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

1. POLLUTANT	1	2. MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	KE (options	ol)
1. POLLUTANT AND CAS NUMBER	а	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ava		1 110 05	- OOMOCN		a. LONG TI AVERAGE V		
(if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											
43B, N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<4e-03	(G, M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.300	<4e-04	(E)				1	ug/L	1bs	NA	NA	NA
45B, Pyrene (129-00-0)			X	<0.300	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.007	<1e-05	(G)				1	ug/L	1bs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
3P β-BHC (319-85-7)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
5P. &-BHC (319-86-8)			X	<0.007	<1e-05	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.081	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
13P, Endosulfan Sulfate (1031-07-8)			X	<0.0105	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0105	<1e-05	(G)	6			1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.007	<1e-05	(G)				1	ug/L	lbs	NA	NA	NĀ
16P. Heptachlor (76-44-8)			X	<0.007	<1e-05	(G)	Legi			1	ug/L	lbs	NA	NA	NA

PAGE V-8

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

OUTFALL NUMBER

NM0890010515

03A048

CONTINUED FROM PAGE V-8 2. MARK "X" 3. EFFLUENT 4. UNITS 5. INTAKE (optional) 1. POLLUTANT b. MAXIMUM 30 DAY VALUE a. LONG TERM c. LONG TERM AVRG. AND **AVERAGE VALUE** a, MAXIMUM DAILY VALUE (if available) VALUE (if available) c BELIEVED b. NO. OF d. NO. OF a. CONCEN-CAS NUMBER TESTING BELIEVED (1) CONCENTRATION (1) CONCENTRATION (1) CONCENTRATION (1) CONCENTRATION ANALYSES TRATION (if available) REQUIRED PRESENT ABSENT (2) MASS (2) MASS ANALYSES b. MASS (2) MASS (2) MASS GC/MS FRACTION - PESTICIDES (continued) 17P, Heptachlor Epoxide (G) ug/L NA NA NA <0.007 <1e-05 1 lbs (1024-57-3) 18P. PCB-1242 lbs NA < 0.0354 <5e-05 (G) ug/L NA NA (53469-21-9) 19P. PCB-1254 < 0.0354 <5e-05 (G) 1 ug/L lbs NA NA NA (11097-69-1) 20P. PCB-1221 < 0.0354 <5e-05 (G) ug/L lbs NA NA NA (11104-28-2) 21P. PCB-1232 < 0.0354 <5e-05 (G) ug/L 1bs NA NA NA (11141-16-5) 22P. PCB-1248 (G) 1 NA NA < 0.0354 <5e-05 ug/L lbs NA (12672-29-6) 23P. PCB-1260 (G) ug/L < 0.0354 1 NA NA NA <5e-05 lbs (11096-82-5) 24P. PCB-1016 (G) <5e-05 < 0.0354 1 ug/L 1bs NA NA NA (12674-11-2) 25P. Toxaphene <0.158 (G) 1 ug/L lbs NA NA < 2e - 04NA (8001-35-2)

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A048

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and
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.
Н	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.
1	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

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 **\$EPA** NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

1	OU	TFALL	LOCA	TION

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	E	. LATITUDE	Pro- 12 4 1	C.	LONGITUDE		
(list)	1 DEG	2 MIN	3, SEC.	1. DEG	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
03A113	35.00	52,00	3.00	106.00	15.00	43.00	Ephemeral Reach of Sandia Canyon
			3 7 1				Water Quality Segment 20.6.4.128 NMAC
				1			
			1				

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

1. OUT-	2, OPERATION(S) CON	TRIBUTING FLOW	3. TREATMEN	T	
03A113	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO TABL	DES FROM E 2C-1
03A113	TA-53-592 Cooling Tower	1,576 GPD	Disinfection (other)	2	Н
	- Treated Cooling Tower Blowdown		Dechlorination	2	E
			Reduction	2	L
03A113	Storm Water	16,763 GPD	NA.	NA	biA
- 5					
				-	

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

2 of 15

			1	DEDUCTION.	tion III)		a promise		
			1972 00 07 07 0	REQUENCY			4. FLOW	MOLLIME	_
	2. OP	ERATION(s)	a DAYS PE WEEK	b. MONTHS	a, FLOW RA	TE (in mgd)	B. TOTAL (specify w		
1. OUTFALL NUMBER (list)		BUTING FLOW (list)	(specify average)	PER YEAR (specify average)	1 LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATIO (in days)
13A113	TA-53-592 Cooling - Treated Coo	Tower ling Tower Bl	7.0	12.0	0,001576 MGD	0.01459 MGD	1,576 GALLONS	14,590 GALLONS	365
	Storm Water		0.9	16	0.016763	0.13678	16,763	136,678	49
					MGD	MGD	GALLONS	GALLONS	
II. PRODUCT	ION							J	
A. Does an ef	fluent guideline limitation YES (complete Item III-l		PA under Section 304 (of the Clean Water NO (go to Se	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ur facility?			
	tations in the applicable of	(1)	0.77 -5-3 -5-4	NO (go to Se	ction IV)				
C. If you answ applicable	vered "yes" to Item III-B, effluent guideline, and in	list the quantity wi	hich represents an act outfalls.	ual measurement	of your level of	production, ex	pressed in the	terms and un	its used in the
		1, AVERA	GE DAILY PRODUCTION				2 AF	FECTED OUT	FALLS
a, QUANTIT	Y PER DAY b. UNITS	OF MEASURE	c. OPERA	TION, PRODUCT (specify)	, MATERIAL, E	rc.		ist outfall numl	
NA	NA		NA				NA		
treatment	now required by any Fer equipment or practices o additions, administrative or	r any other enviro enforcement orde	nmental programs which	h may affect the d ance schedule lett	ischarges descr ters, stipulations	bed in this ap	olication? This i	ncludes, but is	
A. Are you retreatment permit cor	now required by any Fed equipment or practices of aditions, administrative or YES (complete the follo	r any other enviro enforcement orde wing tuble)	nmental programs whic rs, enforcement compli	h may affect the d ance schedule lett	ischarges descr ters, stipulations em IV-B)	bed in this ap court orders,	olication? This i	ncludes, but is	s not limited to
A. Are you retreatment permit cor	now required by any Fer equipment or practices o additions, administrative or	r any other enviro enforcement orde wing luble) 2 AFFEC	nmental programs which	h may affect the d ance schedule lett	ischarges descr ters, stipulations	bed in this ap court orders,	olication? This is and grant or load	ncludes, but is an conditions.	s not limited to
A. Are you retreatment permit cor	now required by any Fed equipment or practices of aditions, administrative or YES (complete the followant)	r any other enviro enforcement orde wing luble) 2 AFFEC	nmental programs which rs, enforcement compli TED OUTFALLS	h may affect the d ance schedule lett	ischarges descr ters, stipulations em IV-B)	bed in this ap court orders,	olication? This is and grant or load	ncludes, but is an conditions. FINAL COMP	s not limited t

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

CONTINUED FROM PAGE 2

NM0890010515

Use the space below to list any o	and V-C are included on separate sheets n if the pollutants listed in Table 2c-3 of the i	instructions, which you know or have reason	n to believe is discharged or may be dischar
from any outfall. For every polluta 1. POLLUTANT	nt you list, briefly describe the reasons you 2. SOURCE	believe it to be present and report any anal	ytical data in your possession. 2. SOURCE
I, FOLLUTANI	NA 2, SOURCE		
	INA	NA	NA
	11		
	THE STATE OF THE S		
OTENTIAL DISCHARGES NOT	COVERED BY ANALYSIS		
y pollutant listed in Item V-C a su	ubstance or a component of a substance w	hich you currently use or manufacture as an	intermediate or final product or byproduct?
YES (list all such pollu	tants helow \	1 10 1 11 111	
	ianii velon į	NO (go to Item VI-B)	
	iana velon y	NO (go to Item VI-B)	
		NO (go to Hem VI-B)	
		VI NO (go to Hem VI-B)	
		▼ NO (go to Hem VI-B)	
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		NO (go to item VI-B)	
		NO (go to item VI-B)	

EPA Form 3510-2C (8-90)

PAGE 3 of 4

CONTINUE ON REVERSE

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

ation to your discharge within the last 3 YES (identify the test(s) and	s years? d describe their purposes below)	NO (go to Section VIII)	
☐ YES (identify the test(s) and	d describe their purposes below)	▼ NO (go to Section VIII)	
	m V performed by a contract laboratory or consulting firm? s, and telephone number of, and pollutants analyzed by,	NO (go to Section IX) C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED
L Laboratories LLC	2040 Savage Road, Charleston SC 29407	(843)556-8171	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
pe Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910)795-0421	Dioxins and Furans
w Mexico Water Testing boratory Inc.	401 North Coronado Ave, Espanola, NM 87532	(505) 929-4545	E-Coli
	ocument and all attachments were prepared under my din d evaluate the information submitted. Based on my inqu	iry of the person or persons w	
lirectly responsible for gathering the in re significant penalties for submitting f	alse information, including the possibility of fine and impris		
lirectly responsible for gathering the in re significant penalties for submitting f NAME & OFFICIAL TITLE (type or pro	alse information, including the possibility of fine and impris	B. PHONE NO. (area code & no. (505) 667-4218	
lirectly responsible for gathering the in tre significant penalties for submitting f NAME & OFFICIAL TITLE (type or pro	alse information, including the possibility of fine and imprisinf) e Laboratory Director ESHQSS	B. PHONE NO. (area code & no.)

CONTINUED FROM THE FRONT

tion to your discharge within the last 3 years YES (identify the test(s) and descri		NO (go to Section VIII)		
EXTR	A PAGE FOR S	SIGNATURE O	NLY	
each such laboratory or firm i	elephone number of, and pollutants analyzed b below)		D. POLLUTANTS ANALYZE	
A. NAME	B. ADDRESS	(area code & no.)	(list)	
ERTIFICATION				
tify under penalty of law that this documen ified personnel properly gather and evalu ctly responsible for gathering the informatic significant penalties for submitting false info	ate the information submitted. Based on on, the information submitted is, to the bes	my inquiry of the person or persons who t of my knowledge and belief, true, accural d imprisonment for knowing violations.	manage the system or those pers	
tify under penalty of law that this documen lified personnel properly gather and evalu ctly responsible for gathering the informatio significant penalties for submitting false info AME & OFFICIAL TITLE (type or print)	ate the information submitted. Based on on, the information submitted is, to the best ormation, including the possibility of fine an	my inquiry of the person or persons who tof my knowledge and belief, true, accurated imprisonment for knowing violations. B. PHONE NO. (area code & no.)	manage the system or those pers	
tify under penalty of law that this documen ified personnel properly gather and evalu ctly responsible for gathering the informatic significant penalties for submitting false info	ate the information submitted. Based on on, the information submitted is, to the best ormation, including the possibility of fine an	my inquiry of the person or persons who t of my knowledge and belief, true, accural d imprisonment for knowing violations.	manage the system or those pers	

EPA Form 3510-2C (8-90)

PAGE 4 of 4

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.

EPA I.D. NUMBER (copy from liem 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

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.

				2. EFFLU	BENT			3. UN (specify i)			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availe		c. LONG TERM AVE		1,110,05	DOMOGRA		a, LONG T AVERAGE		10.05
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.53	0.186	(D)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	37.1	4.52					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	2,55	0.31					i	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	5.68	0.692	5.68	0.167	1.80	2.36e-2	16	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	<0.017	<2.1e-3	(E)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.01459	(A)	VALUE 0.0035	(A)	VALUE 0.001576	(A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 16.3	(B)	VALUE 14.9	(B)	VALUE 13.4 (F	3)	12	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 26.0	(B)	VALUE 23.8	(B)	VALUE 21.8 (E	3)	13	°C		VALUE NA		NA
i. pH	MINIMUM 6.7 (C)	MAXIMUM 8.7 (C)	MINIMUM 6.8 (C)	MAXIMUM 8.5 (C)			196	STANDARI	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.

46 - 10 - 10 -	2, MA	RK "X"			3.	EFFLUENT				4 UNI	TS	5. INTAKE (option		al)
1. POLLUTANT	a,	b	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM AV (if availal		57 - SX	L'anner		The second secon	ONG TERM AVERAGE VALUE	
CAS NO. (rf available)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		0.589	7.2e-02					1	mg/L	1bs	NA	NA	NA
b, Chlorine, Total Residual	X		0 (0)	0.0	0.0 (0)	0.0	0.0 (0)	0.0	201	mg/L	lbs	NA.	NA	NA
c. Color	X		<5	NA	(E,N)				1	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		0.84	1.0e-01					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		0.779	9.5e-02					1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

a Assurant	2. MA	RK "X"			3	EFFLUENT				4. UNI	TS	5, INT	AKE (option	al)
1. POLLUTANT AND CAS NO.	a	ь	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa		d. NO. OF	a. CONCEN-		a, LONG TI AVERAGE V		b. NO. OF
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.249	3.0e-02					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.44	NA.	(E)				1	mg/L	1bs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.302	3.7e-02	0.302	8.89e-3	0.122	1.61e-3	16	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total	X		2.95	NA					1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		6.66	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium. Total		X	<0.0833	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<-0.0737	NA	(E)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₄) (14808-79-8)	×		220	26.8					1	mg/L	lbs	NA	NA	NA
L Sulfide (as S)		X	<0.033	<4e-03	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	×		74.7	9.1	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants		X	<0.017	<2.1e-3	(E)				ì	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	×		<19.30	<2.4e-3	(H,N)				1	ug/L	lbs	NA.	NA	NA
p. Barium, Total (7440-39-3)	X		60.3	7.3e-03	(1)				ì	ug/L	1bs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		49.3	6.0e-03	(1)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)	1	X	<0.3	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		<33	<4.0e-3	(E,N)				1	ug/L	lbs	NA	NA	NA
t, Magnesium, Total (7439-95-4)	×		7680	0.935					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		2.02	2.5e-04					1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		2.4	2.9e-04	(D)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<1.2e-4	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<2.4e-4	(E,N)				1	ug/L	lbs	NA	NA	NA

PAGE V-2

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

NM0890010515 03A113

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitine, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or brefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

		MARK "X				3. E	FFLUENT				4 UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a.	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERN VALUE (if avo		LUC OF	OOMOCH		a. LONG T AVERAGE V		. 40 0
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	concentration	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
METALS, CYANIDE	, AND TOT	AL PHENO	LS												
1M. Antimony, Total (7440-36-0)			X	<1	<1e-04	(G)				1	ug/L	1bs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<2e-04	(H, N)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
4M, Cadmium, Total (7440-43-9)			X	<0.3	<4e-05	(G)				1	ug/L	1bs	NA.	NA	NA.
5M. Chromium, Total (7440-47-3)		X		7.87	1e-03	(D,I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		10.4	1e-03					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		0.518	6e-05	(D)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		X		<0.067	<8e-06	(H,N)	_ [1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<7e-05	(H,N)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)			X	<2	<2e-04	(G)				1	ug/L	1bs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)		1	X	<0.6	<7e-05	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		<3.3	<4e-04	(G,N)				1	ug/L	1bs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		6.31	8e-04				1	1	ug/L	lbs	NA	NA	NA
DIOXIN						1		- A							
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-C1-6)				DESCRIBE RESU		pg/L was less tha	an the MDL	The MDI, used wa	s greater	than the EP	A MQL of 10 p	g/I			

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

0.22.000151		2. MARK "X	ď	-			FFLUENT				4. UN	ITS		KE (optiona	al)
1. POLLUTANT AND	a	b	E,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM VALUE (if ava		W 1/2 EE	- 220000		a, LONG TO AVERAGE V	ERM ALUE	
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS											4,347,273,85	
1V, Accrolein (107-02-8)			X	<1.67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1,67	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- inethyl) Ether (542-88-1)			44			(J)									
5V. Bromoform (75-25-2)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<4e-05	(G)	1 1			1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)		2	X	<0.333	<4e-05	(E)	1-3-0			1-	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<2e-04	(E)	1			1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<4e-05	(E)				1	ug/L	1bs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(J)									
14V. 1.1-Dichloro- ethane (75-34-3)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
16V, 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<4e-05	(G,L)				1	ug/L	1bs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<4e-05	(G)	(1)			1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
21V, Methyl Chloride (74-87-3)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

		2. MARK "X	ii .			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (option	al)
1. POLLUTANT AND CAS NUMBER	a.	p	C C	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS (con	tinued)											
22V. Methylene Chloride (75-09-2)	71	X		<1.67	<2e-04	(G,N)				1	ug/L	1bs	NA	NA	NA
23V, 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<4e-05	(G)				i	ug/L	1bs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
28V: 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)	1 2 4		X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)					i e i	(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.13	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenal (105-67-9)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)		1	X	<5.21	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
5A, 2-Nitrophenol (88-75-5)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
7A, 4-Nitrophenol (100-02-7)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
BA P-Chloro-M- Cresol (59-50-7)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol 108-95-2)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- ohenol (88-05-2)	= 1		X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 890010515
CONTINUED FROM THE FRONT

S MANUAL TON	- 3	2. MARK "X					FFLUENT				4. UN	ITS		KE (options	(I)
1. POLLUTANT AND CAS NUMBER	a	b:	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availat		c, LONG TERM VALUE (if ave		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/NI	EUTRAL CO	OMPOUND	s											
1B, Acenaphthene (83-32-9)			X	<0.313	<4e-05	(G)			1 =	1	ug/L	1bs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
3B, Anthracene (120-12-7)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	Na
4B. Benzidine (92-87-5)	1		X	<4.06	<5e-04	(G)				1	ug/L	1bs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			×	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
6B, Benzo (a) Pyrene (50-32-8)			X	<0.313	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.313	<4e-5	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benza (ghi) Perylene (191-24-2)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (3-Chloro- ethoxy) Methane (111-91-1)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
11B, Bis (<i>2-Chloro-ethyl</i>) Ether (111-44-4)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
12B, Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<2e-04	(G)				ī	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.313	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
14B, 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.13	<4e-04	(E)				1	ug/L	1bs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.427	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.13	<4e-04	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0,333	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

The New Land		2, MARK "X	ir .			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	n/)
1. POLLUTANT AND	a	ь	G.	a MAXIMUM DA	VILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av		A NO OF	CONOCH		a LONG T		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO, OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B, 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<4e-05	(G)				1	ug/L	lbs	NA.	NA	NA
23B, 3,3-Dichloro- benzidine (91-94-1)			X	<3.13	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
248. Diethyl Phthalate (84-66-2)			X	<0.313	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
26B Di-N-Butyl Phthalate (84-74-2)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.13	<4e-04	(G)				ī	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.13	<4e-04	(E)	-			1	ug/L	lbs	NA	NA	NA
29B. Dí-N-Octyl Phthalate (117-84-0)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
30B, 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	1-1		X	<3.13	4e-04	(G)				1	ug/L	1bs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.313	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.313	<4e-05	(G)	1 = 1			1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
35B, Hexachloro- cyclopentadiene (77-47-4)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.13	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.313	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.65	<4e-04	(G)				1	ug/L	1bs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
408, Nitrobenzene 98-95-3)			X	<3.13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
11B. N-Nitro- sodimethylamine 62-75-9)			X	<3.13	<4e-04	(G)		1		1,	ug/L	lbs	NA	NA	NA
12B N-Nitrosodi- N-Propylamine 621-64-7)			X	<3,13	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA

PAGE V-7

CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. Niviu890010515
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La La Constante de	- 2	MARK "X					FFLUENT				4. UN	ITS		KE (optiona	d)
1. POLLUTANT AND	a	b.	c	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availa		c LONG TERM VALUE (if and		J NO 05	- 00110511		a. LONG T AVERAGE V		. 116 65
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.13	<4e-04	(G,M)				1	ug/L	lbs	NA	NA	NA
44B, Phenanthrene (85-01-8)			X	<0.313	<4e-05	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.313	<4e+05	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.13	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	Na	NA	NA
2P, α-BHC (319-84-6)			X	<0,0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
4P, γ-BHC (58-89-9)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
5P, δ-BHC (319-86-8)			X	<0.0068	<8e-07	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0781	<1e-05	(G)				1	ug/L	1bs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)	E TH		X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
8P_4,4'-DDE (72-55-9)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
9P, 4,4'-DDD (72-54-8)			X	<0.0102	<1e-06	(G)				1	ug/L	1bs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0102	<1e-06	(G)				1	ug/L	1bs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.0068	<8e-07	(G)				1	ug/L	1bs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
14P, Endrin (72-20-8)			X	<0.0102	<1e-06	(G)				1	ug/L	lbs	NA	AN	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	AN
16P. Heptachlor (76-44-8)			X	<0.0068	<8e-07	(G)				ì	ug/L	lbs	NA	NA	NA

EPA Farm 3510-2C (8-90)

PAGE V-8

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

OUTFALL NUMBER

NM0890010515

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CONTINUED FROM PAGE V-8

TO A LOUIS TO A	2	MARK "X	11			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (options	ul)
1. POLLUTANT AND	a,	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 E (if availab		c. LONG TERM VALUE (if and		100.05	CONOCH		a. LONG T		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION	- PESTICII	DES (contin	nued)		7 5 5										
17P. Heptachlor Epoxide (1024-57-3)			X	<0.0068	<8e-07	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0354	<4e-06	(G)			7 1	1	ug/L	lbs	NA	Na	NA
19P. PCB-1254 (11097-69-1)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0354	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0354	<4e-06	(G)	1,211			1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.153	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A113

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
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.
Н	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.
	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215 Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application NPDES

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

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

For each outfall, list the I		angitude of its	location to t	he nearest 15	seconds and	the name of	the receiving water
A. OUTFALL NUMBER		. LATITUDE			LONGITUDE		The Todaying Walds
(list)	1 DEG	2 MIN.	3. SEC	1. DEG.	2. MIN.	3, SEC,	D. RECEIVING WATER (name)
03A160	35.00	51.00	47.00	106.00	17.00	49.00	Ten Site Canyon, Tributary to Mortandad
							Canyon Water Quality Segment
							20.6.4.128 NMAC
		- 1		1			

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.
- 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. OUT-	2. OPERATION(S) CONTR	RIBUTING FLOW	3. TREATMEN	NT	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COD TABLE	DES FROM 2C-1
03A160	National High Magnetic Field	2,567 GPD	Dechlorination	2	E
	Laboratory (NEMFL) Cooling Towers				
	- Treated Cooling Tower Blowdown				
	DSE ONLY (affluent and blings out participation)				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

	orm runoff, leaks, or YES (complete the fo		of the discharges	described in It	tems II-A or B in NO (go to Sec		sonal?			
				3. FRE	EQUENCY			4. FLOW		
				a, DAYS PER		FI 004/D	TF 2: A	B. TOTAL		
1. OUTFALL NUMBER (list)		OPERATION(s) TRIBUTING FLO (list)	w	WEEK (specify average)	b MONTHS PER YEAR (specify average)	a FLOW RA 1 LONG TERM AVERAGE	2 MAXIMUM DAILY	1. LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATION (in days)
03A160	National High			2	7	0.002567	0.00647	2,567	6,470	87
	Laboratory (NH					MGD	MGD	GALLONS	GALLONS	
	- Treated	Cooling To	wer Blowdown					2		
II. PRODUCTION	ON uent guideline limitat		d by EPA under		the Clean Water		ur facility?			
	ations in the applicat	ole effluent guid		n terms of pro	duction (or other NO (go to Se	r measure of ope				
	ered "yes" to Item II effluent guideline, an			sents an actua	al measurement	of your level of	production, ex	pressed in the	terms and uni	ts used in the
			VERAGE DAILY					2. AFI	ECTED OUT	FALLS
a. QUANTITY	PER DAY b. UN	ITS OF MEAS	URE	c. OPERAT	ION, PRODUCT (specify)		TC.	(II	st outfall numb	ers)
NA	NA		NA		(NA		
IV. IMPROVEN										
treatment e	ow required by any equipment or practice ditions, administrative	s or any other or enforceme	environmental pr	ograms which	may affect the d nce schedule let	lischarges descr ters, stipulations	ibed in this app	plication? This in	ncludes, but is	
4 Inches	YES (complete the f		FEEATER OF THE	ALLE T	NO (go to H	em IV-B)			TINIAL COMP	IANOE DATE
	ATION OF CONDITION EEMENT, ETC.		FFECTED OUTF		3, BRIE	F DESCRIPTION	OF PROJEC			LIANCE DATE
Chi.		a NO	b, SOURCE OF							b. PROJECTED
NA		NA	NA		NA			NA	N	A
	L: You may attach									

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

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

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

CONTINUED FROM PAGE 2

NM0890010515

from any outfall. For every po	llutant you list, briefly describe the reason	f the instructions, which you know or have reasons you believe it to be present and report any and	alytical data in your possession.
1, POLLUTANT	2. SOURCE	1. POLLUTANT	2, SOURCE
	NA	NA	NA
	OT COVERED BY ANALYSIS	ice which you currently use or manufacture as a	n intermediate or final product or hyproduct?
			in intermediate of final product of byproduct?
YES (list all such p	ollutants below)	NO (go to Item VI-B)	
YES (list all such p.	ollutants below)	▼ NO (go to Item VI-B)	
YES (list all such p	odhutanis below)	▼ NO (go to Item VI-B)	

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

L TES (identify the test(s) th	nd describe their purposes below)	NO (go to Section VIII)	
A			
II. CONTRACT ANALYSIS INFORMA	TION		
ere any of the analyses reported in Ite	m V performed by a contract laboratory or consulting firm?		
	ss, and telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory	or firm helow)		
			D DOLLLITANTO MININGED
A. NAME	B, ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
	B, ADDRESS 2040 Savage Road, Charleston SC 29407		(list) Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids,
BL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(area code & no.) (843)556-8171	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds
BL Laboratories LLC		(area code & no.)	(list) Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids,
A. NAME EL Laboratories LLC cape Fear Analytical LLC	2040 Savage Road, Charleston SC 29407	(area code & no.) (843)556-8171	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds
BL Laboratories LLC ape Fear Analytical LLC	2040 Savage Road, Charleston SC 29407	(area code & no.) (843)556-8171	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(area code & no.) (843) 556-8171 (910) 795-0421	(list) Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins
EL Laboratories LLC Tape Fear Analytical LLC Tew Mexico Water Testing Taboratory Inc.	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd	(area code & no.) (843) 556-8171 (910) 795-0421	(list) Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins
BL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc.	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532	(area code & no.) (B43) 556-8171 (910) 795-0421 (505) 929-4545	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd	(area code & no.) (B43) 556-8171 (910) 795-0421 (505) 929-4545	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd	(area code & no.) (B43) 556-8171 (910) 795-0421 (505) 929-4545	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd	(area code & no.) (B43) 556-8171 (910) 795-0421 (505) 929-4545	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd	(area code & no.) (B43) 556-8171 (910) 795-0421 (505) 929-4545	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research nstitute	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd	(area code & no.) (B43) 556-8171 (910) 795-0421 (505) 929-4545	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli
BL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research nstitute	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd San Antonio TX7B38	(g10) 795-0421 (505) 929-4545 (210) 522-3867	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli Arsenic, Selenium
ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research institute C. CERTIFICATION Certify under penalty of law that this of qualified personnel properly gather al	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd San Antonio TX7838	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (210) 522-3867 ection or supervision in accordarity of the person or persons withowledge and belief, true, accurate the second supervision in accordarity of the person or persons withowledge and belief, true, accurate the second supervision in accordance and second sec	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli Arsenic, Selenium
ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research natitute C. CERTIFICATION I certify under penalty of law that this of the content	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd San Antonio TX7838 document and all attachments were prepared under my directly discovered by the coronation, the information submitted is, to the best of my information, the information submitted is, to the best of my infalse information, including the possibility of fine and imprise	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (210) 522-3867 action or supervision in accordarity of the person or persons with the person or persons without the person of the person or persons without the person or persons with the person of	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Bliphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli Arsenic, Selenium
ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research nstitute C. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather a directly responsible for gathering the in are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or p	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd San Antonio TX7838 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my kind evaluate the information submitted is, to the best of my kind false information, including the possibility of fine and imprising the possibility of fine and impr	(area code & no.) (B43) 556-B171 (910) 795-0421 (505) 929-4545 (210) 522-3867 cotion or supervision in accordary of the person or persons we knowledge and belief, true, accuronment for knowing violations. B. PHONE NO. (area code & no.)	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Bliphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli Arsenic, Selenium
Tape Fear Analytical LLC Tape Fear Analytical LLC Tape Mexico Water Testing Taboratory Inc. TWRI Southwest Research Testitute The certify under penalty of law that this of the certify under penalty of law that this of the certify under penalties for gathering the interest of the certify the certify the certify the certify the certify the certification of the c	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd San Antonio TX7838 Socument and all attachments were prepared under my director evaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my keep false information, including the possibility of fine and imprisivant) the Laboratory Director ESHQSS	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (210) 522-3867 cction or supervision in accordarity of the person or persons without the person of the p	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Bliphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli Arsenic, Selenium
ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. WRI Southwest Research nstitute C. CERTIFICATION Certify under penalty of law that this or qualified personnel properly gather and directly responsible for gathering the increase significant penalties for submilting A. NAME & OFFICIAL TITLE (type or polichael W. Hazen, Association C. SIGNATURE	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 Division 01 6220 Culebra Rd San Antonio TX7838 Socument and all attachments were prepared under my director evaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my keep false information, including the possibility of fine and imprisivant) the Laboratory Director ESHQSS	(area code & no.) (B43) 556-B171 (910) 795-0421 (505) 929-4545 (210) 522-3867 cotion or supervision in accordary of the person or persons we knowledge and belief, true, accuronment for knowing violations. B. PHONE NO. (area code & no.)	Biological Oxygen Demand, General Chemistry, Pesticides, Polychlorinate Biphenyls, Radiochemistry, Semi-Volatile Organic Compounds, Total Metals, Total Suspended Solids, Volatile Organic Compounds Dioxins E-Coli Arsenic, Selenium

VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to belie relation to your discharge within the last 3 year YES (identify the test(s) and desc	rs?	chronic toxicity has been made on any of your NO (go to Section VIII)	discharges or on a receiving water in
EXTR	A PAGE FOR	SIGNATURE O	NLY
VIII. CONTRACT ANALYSIS INFORMATION Vere any of the analyses reported in Item V pe YES (list the name, address, and teach such laboratory or firm A. NAME	telephone number of, and pollutants analy		D. POLLUTANTS ANALYZED (list)
10000000		(area code & no.)	(list)
qualified personnel properly gather and evalu directly responsible for gathering the information	uate the information submitted. Based on, the information submitted is, to the	under my direction or supervision in accordanc d on my inquiry of the person or persons who e best of my knowledge and belief, true, accure	manage the system or those persons
are significant penalties for submitting false info A. NAME & OFFICIAL TITLE (type or print)			and the transfer of the transf
illiam S. Goodrum, Manager Los	Alamos Field Office	(505) 667-5105	
SIGNATURE /	_	3-25-19	
PA Form 3510-2C (8-90)	PAGE 4.0	of 4	

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.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

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.

				2, EFFLU	3. UN (specify i)		4					
1. POLLUTANT	a. MAXIMUM D	AILY VALUE	b, MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVE (if available	7 OF 16			a. LONG TERM AVERAGE VALUE			
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	<1.0	<0.054	(D, F)				1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	7.3	0.394	(D,E)				11	mg/L	1bs	NA.	NA	NA
c. Total Organic Carbon (TOC)	1.16	0.0626	(D)	1			1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	1.4	0.0756	1.4	0.0467	1.1	0.0236	14	mg/L	1bs	NA	NA	NA
e. Ammonia (as N)	0.0285	0.00154	(D, F)				1	mg/L	lbs	NA	NA	NA
f_Flow	VALUE C.0065	(A)	VALUE 0.004	(A)	VALUE 0.0026 (87	MGD	NA	VALUE NA		NA	
g. Temperature (winter)	VALUE 20.4 (B)		VALUE 18.5 (B)		VALUE 16.9 (E	11	°C		VALUE NA		NA	
h Temperature (summer)	VALUE 25.3	(B)	VALUE 23,9	(B)	VALUE 23.4 (B)		11	¢C		VALUE		NA
i. pH	MINIMUM 7 (C)	MAXIMUM 8.8 (C)	MINIMUM 7.6(C)	MAXIMUM 8.7(C)			182	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.

	2. MA	RK "X"			3.	4 UNITS		5. INTAKE (optional)						
	a	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		2002055	540,45		a. LONG TERM AVERAGE VALUE		114 14 14
	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		0.193	0.0104	(D,E)				1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0 (N)	ā	0 (N)	0	0 (N)	Ö	48	mg/L	1bs	NA	NA	NA
c. Color	X		5	NA	(D, G)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform	141	X	<1	NA	(D, F, K)				ì	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		1.19	0.0643	(D)				ì	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		4.51	0.244	(D)				1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 10 99010515
ITEM V-B CONTINUED FROM FRONT

A STATE OF THE	2. MARK "X"		M. The state of th		3.	4. UNITS		5. INTAKE (optional)						
1. POLLUTANT AND CAS NO. (if available)	a BELIEVED	b.	a. MAXIMUM DAILY VALU		b. MAXIMUM 30 (if uvaila		(if available)		d NO. OF	a. CONCEN-		a. LONG TE AVERAGE V		b. NO. OF
	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	ANALYSE
g. Nitrogen, Total Organic (as N)	X		0.035	0.00189	(D, E, F)				1	mg/L	1bs	NA	NA	NA
h. Oil and Grease	X		1.96	0.106	(D,E)		1		1	mg/L	lbs	NA	NA	NA
Phosphorus (as P), Total (7723-14-0)	X		3.1	0.167	3.1	0.103	0.3249	0.00696	14	mg/L	lbs	NA	NA	NA
Radioactivity												I		
(1) Alpha, Total		X	<0.96	NA	(D,F)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		15.9	NA	(D)				1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		<0.379	NA	(D)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		1.03	NA	(D)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₃) (14808-79-8)	X		29.9	1.61	(D)				1	mg/L	1bs	NA	NA	NA
I. Sulfide (as S)		X	<0.03	<0.0016	(D,F)				î	mg/L	1bs	NA	NA	NA
m. Sulfite (us SO ₃) (14265-45-3)	X		0.04	0.00216	(D)				i	mg/L	lbs	NA	NA	NA
n Surfactants	X		0.0495	0.00267	(D, E, G)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)		X	Ö	0	0	0	0	Ō	4	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		1,4	8E-05	(D)	1000			1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		216	0.0117	(D)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<1	<5e-05	(D,H)				į	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		45.2	0.00244	(D)				1	ug/L	1bs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		5810	0.314	(D)				1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		15.5	8e-04	(D)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<2	<1e-04	(D,F)			1	1	ug/L	1bs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<2.5	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)		X	<1	<5e-05	(D, F)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-2

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NM0890010515 03A160

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for, Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

Carrier Street	2. MARK "X"					3. E	FFLUENT	4. UN	ITS	5. INTAKE (optional)					
1. POLLUTANT AND CAS NUMBER (if available)	a	ь.	E,	a. MAXIMUM DAILY VA		VALUE 6. MAXIMUM 30 E		c. LONG TERM VALUE (1) and		la conse	201/0511		a. LONG TO AVERAGE V		b. NO. OF
	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE:
METALS, CYANIDI	, AND TO	AL PHENC	DLS												
1M, Antimony, Total (7440-36-0)			X	<3.5	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		2.59	0.0001	2.59	0.0863	2.25	0,048	4	ug/L	lbs	NA	ŅA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<1e-05	(D, H)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<1	<5e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		30.4	0.0016	(D)				1	ug/L	1bs	NA	NA	NA.
6M. Copper, Total (7440-50-8)		X		7.48	0.0004	3.82	0.127	1,2	0.025	306	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		1.52	8e-05	(D)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)		1.37 11	X	<0.66	<4e-06	(D,I)			1 7 1	1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		1.35	7e-05	(D)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		72.3	0.0039	(D)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.45	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		4.4	2e-04	(D)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)	L	X		21.8	1e-03	3.35	0.112	0.6366	0.014	46	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		5	3e-04	(D, E)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RESU	LTS The re	sult of 10.6 pg/	L was less t	han the MDL Ho	wever, the	e MDL was gr	eater than th	e MQL of 10	7 pg/L (D, 15		

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

Los Alamos 1al Laboratory EPA ID No. 390010515 CONTINUED FROM THE FRONT

1 0011100110	- 1	2. MARK "X	n .				FFLUENT				4. UN	ITS		KE (optiona	il)
1. POLLUTANT AND CAS NUMBER	a.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERN VALUE (if ava		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE \		b. NO O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	E COMPO	UNDS												
1V, Accrolein (107-02-8)			X	<1.25	<7e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.0	<5e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.3	<2e-05	(D, H)				1	ug/L	lbs	NA	NA	NA
4V_Bis (Chloro- methyl) Ether (542-88-1)						(U)									
5V. Bromoform (75-25-2)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
6V Carbon Tetrachloride (56-23-5)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.3	<2e-05	(D, H)				ĭ	ug/L	lbs	NA	NA	NA
9V Chloroethane (75-00-3)			X	<0.3	<2e-05	(D, F)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.5	<8e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
11V_Chloraform (67-66-3)			X	<0.25	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
12V_Dichloro- bromomethane (75-27-4)			X	<0.25	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(J)									
14V 1,1-Dichloro- ethane (75-34-3)			X	<0.3	<2e-05	(D, F)				1	ug/L	1bs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.25	<1e-05	(D, H)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)		1	X	<0.3	<2e-05	(D, H)				1	ug/L	lbs	NA	NA	NA
17V, 1,2-Dichloro- propane (78-87-5)			X	<0.25	<1e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.25	<1e-05	(D,H,L)				1	ug/l	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.25	<1e-05	(D, H)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)		1	X	<0.3	<2e-05	(D, F)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-4

CONTINUE ON PAGE V-5

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

		2. MARK "X				3, E	FFLUENT				4, UN	ITS	5. INTA	KE (aptioni	al)
1. POLLUTANT AND	a	b.	c	a. MAXIMUM DA	ALLY VALUE	b MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av		NO OF	- achiern		a. LONG T AVERAGE V		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	E COMPO	UNDS (con	tinued)											
22V. Methylene Chloride (75-09-2)			X	<3	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
23V 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.25	<1e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
24V, Tetrachloro- ethylene (127-18-4)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
25V, Toluene (108-88-3)	16		X	<0.25	<1e-05	(D,H)			4	1	ug/L	1bs	NA	NA	NA
26V, 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.3	<2e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
27V, 1,1,1-Trichloro- ethane (71-55-6)			X	<0.325	<2e-05	(D,H)				1	ug/L	lbs	ŅĄ	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.25	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-59-4)						(J)									LITE:
31V. Vinyl Chloride (75-01-4)			X	<0.5	<3e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS													
1A 2-Chlorophenol (95-57-8)			X	<2,0	<1e-04	(D,H)	(1)			1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<2.0	<1e-04	(D,H)	===			1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.0	<2e-04	(D,H)				1, -	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.0	<3e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<2.0	<1e-04	(D, F)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
8A. P-Chlara-M- Cresol (59-50-7)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<2.0	<1e-04	(D,H)			L	1	ug/L	lbs	NA	NA	NA
10A, Phenol (108-95-2)		X		8.41	5e-04	(D,E)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Los Alamos nal Laborate EPA ID No. 390010515

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CONTINUED FROM THE FRONT

a priversion		2 MARK "X	,				FFLUENT				4. UN	ITS		KE (optione	()
1. POLLUTANT AND CAS NUMBER	a	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		d, NO. OF	a CONCEN-		a. LONG T AVERAGE V		b. NO. OF
(if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.31	<2e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
2B. Acenaphtylene (208-96-8)		(1 =)	X	<0.2	<1e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.0	<2e-04	(D, E, H)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)		×	-9	<0.26	<1e-05	(D,E)				1	ug/L	lbs	NA	NA	NA
6B, Benzo (a) Pyrene (50-32-8)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.2	<1e-05	(D, F)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.2	<1e-05	(D,H)				ĺ	ug/L	lbs	NA	NA	NA
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.0	<2∈-04	(D,F)				i	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromopheny Phenyl Ether (101-55-3)			X	<2.0	<1e-04	(D,F)				1.	ug/L	lbs	NA	NA	AM
15B. Butyl Benzyl Phthalate (85-68-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	1bs	NA	NA	NA.
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.3	<2e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	МA
21B 1,3-Di-chloro- benzene (541-73-1)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

CONTINUE ON PAGE V-7

The State of the		2 MARK "X	0			3, E	FFLUENT				4. UN	ITS	5. INTA	KE (option	u/)
1. POLLUTANT AND	a	b.	c	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ave		1 110 55	acuaru		a. LONG T AVERAGE \		
CAS NUMBER (if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO. OF ANALYSES	a. CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichlcro- benzene (106-46-7)			X	<0.25	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<2.0	<1e-04	(D, H)				1	ug/L	lbs	NA	NA	NA
24B, Diethyl Phthalate (84-66-2)		X		67.4	<4e-03	(D)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<2.0	<1e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<3.0	<2e-04	(D,F)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.2	<1e-05	(D,H)				1	ug/L	1bs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.2	<1e-05	(D,H)				ì	ug/L	lbs	NA	NA	NA
33B, Hexachloro- benzene (118-74-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	1bs	NA	NA	NA
34B, Hexachloro- butadiene (87-68-3)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	.NA	NA	NA.
35B, Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<2e-04	(D,E,H)				1	ug/L	1bs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<2.0	<1e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.2	<1e-05	(D,H)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)		1	X	<3.0	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	< 0.3	<2e-05	(D,F)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.0	<2e-04	(D,H)				1	ug/L	lbs	NA	NA	NA
41B, N-Nitro- sodimethylamine (62-75-9)			X	<2.0	<1e-04	(D,H)		1		1	ug/L	lbs	NA	NA	ŅĀ
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<2.0	<1e-04	(D,H)				ī	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

NPDES-F2C-18-007-R0, Form 1

utfall 03A160 March 2016

v semience	2	MARK "X"	1				FFLUENT				4. UN	ITS	5. INTA	KE (option	il)
1. POLLUTANT AND CAS NUMBER	a TESTING	b, BELIEVED	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availai		c. LONG TERM VALUE (if ave		d. NO, OF	a. CONCEN-		a. LONG TI AVERAGE V		b. NO. O
(if available)	REQUIRED		ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/NE	EUTRAL CO	MPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (85-30-5)			X	<3.0	<2e-04	(D,K,M)				1	ug/L	1bs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.2	<1e-05	(D,F)	-			1	ug/L	lbs	NA	NA	NA
458, Pyrene (129-00-0)			X	<0.3	<2e-05	(D, H)				1	ug/L	lbs	NA	NA	NA
468. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<2.0	<1e-04	(D, H)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.00707	<4e-07	(D, H)				1	ug/L	1bs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.00707	<4e-07	(D, H)				1	ug/L	lbs	NA	NA	NA
3Р. β-ВНС (319-85-7)			X	<0.00707	<4e-07	(D, H)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)	(1	X	<0.00707	<4e-07	(D,F)	1			1	ug/L	lbs	NA	ŅA	NA
6P. Chlordane (57-74-9)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
7P, 4,4"-DDT (50-29-3)			X	<0.011	<6e-07	(D, H)				1	ug/L	lbs	NA	NA	NA
8P. 4.4'-DDE (72-55-9)		1 2	X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)		1.761	X	<0.00707	<4e-07	(D,H)				1	ug/L	1bs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.011	<6e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
15P, Endrin Aldehyde (7421-93-4)			X	<0.00707	<4e-07	(D,H)				1	ug/L	1bs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-9

CONTINUED FROM PAGE V-8

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

OUTFALL NUMBER

NM0 8 9 0 0 1 0 5 1 5 0 3 A 1 6 0

	13	2. MARK "X	10			3, E	FFLUENT			A	4. UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERM VALUE (if ave		NO OF	OCHOEN		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00707	<4e-07	(D,H)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0343	<2e-06	(D,H)				1	ug/L	1bs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0358	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0343	<2e-06	(D,H)			1 1	1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0343	<2e-06	(D,H)				1	ug/L	lbs	NA	NA	NA
25P, Toxaphene (8001-35-2)			X	<0.16	<9e-06	(D,H)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C **OUTFALL - 03A160**

Α	Calculated using data collected between June 2017 and May 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between June 2017 and May 2018.
С	The pH values provided were determined using data collected between June 2017 and May 2018.
D	The analytical result provided is from the 2012 permit reapplication.
E	Value provided was estimated by the analytical laboratory.
F	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.
G	Preparation or preservation holding time was exceeded and the value provided has been estimated by the laboratory.
н	The analytical result provided is less than the MDL and the EPA Region 6 approved MQL. The value provided is the MDL.
r	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.
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.
М	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	Identified as a potential pollutant from one of the sources discharging to the outfall.

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.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

OUT	LEVI I	LOCA	TION

NPDES

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	E	B. LATITUDE		C.	LONGITUDE	Ĭ.	CONTRACTOR AND
(list)	1, DEG	2 MIN	3 SEC	1 DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
03A181	35.00	51.00	51.00	106.00	18.00	5.00	Effluent Canyon, Tributary of Mortandad
							Canyon, Water Quality Segment
							20.6.4.128 NMAC
					-		
1							

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 OUT-	2. OPERATION(S) CONT	TRIBUTING FLOW	3. TREATME	NT	
1. OUT- FALL NO. (list)		b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO	DES FROM E 2C-1
03A181	TA-55-6 Cooling Towers	9365 GPD	Dechlorination	2	£
	- Treated Cooling Tower Blowdown		Disinfection (other)	2	Ħ
			Reduction	ž	Ĺ
	J*				
			-		
				_	
			2		
	USE ONLY (affluent andellines sub-categorie				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90) PAGE 1 of 4 CONTINUE ON REVERSE

✓	YES (complete the follow	ving table)			NO (go to Sec	ction III)				
				3, FRE	QUENCY			4. FLOW		
	2 OP	ERATION(s)		a. DAYS PER WEEK	b. MONTHS	a FLOW RA	TE (in mgd)	B. TOTAL (specify w		
1. OUTFALL NUMBER (list)		BUTING FLO)W	(specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE	2, MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	C DURATION (in days)
3A181	TA-55-6 Cooling T - Treated Co		wer Blowdown	7.0	12.0	0.009 MGD	0.032 MGD	9,365 GALLONS	31,986 GALLONS	365
3. Are the limit	luent guideline limitation YES (complete Item III-i ations in the applicable of YES (complete Item III-i	B) effluent guid C)	deline expressed in	terms of prod	NO (go to Sed duction (or other NO (go to Sed	ction IV) measure of ope ction IV)	eration)?			
 C. If you answ applicable 	ered "yes" to Item III-B, effluent guideline, and in	list the qua dicate the a	antity which represent iffected outfalls.	ents an actual	i measurement	of your level of	production, ex	pressed in the	erms and uni	ts used in the
		1. A	VERAGE DAILY P					2. AFI	ECTED OUT	FALLS
a. QUANTITY	PER DAY b. UNITS	OF MEAS	URE	c. OPERATI	ON, PRODUCT (specify)	, MATERIAL, E	rc.	(1)	st outfall numb	ers)
treatment e	ow required by any Fer equipment or practices o ditions, administrative or	r any other enforceme	environmental prog	grams which r nent complian	may affect the di ice schedule lett	ischarges descri ers, stipulations	bed in this app	olication? This is	cludes, but is	of wastewate not limited to
	YES (complete the follo			A 34	NO (go to Ite	em IV-B)				
	ATION OF CONDITION, EEMENT, ETC.		FFECTED OUTFA	1111	3. BRIEF	DESCRIPTION	OF PROJEC	1	24,2,0513	LIANCE DATE
NA		a NO.	b, SOURCE OF D		JA			a l		b PROJECTED

MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED EPA Form 3510-2C (8-90) CONTINUE ON PAGE 3

PAGE 2 of 4

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

CONTINUED FROM PAGE 2

NM0890010515

1. POLLUTANT	ant you list, briefly describe the reasons you 2. SOURCE	1, POLLUTANT	2, SOURCE
	NA	NA	NA.
DTENTIAL DISCHARGES NOT	A SECRETARY DESCRIPTION OF THE PROPERTY OF THE		
pollutant listed in Item V-C a su SES (list all such pollu		nich you currently use or manufacture as an M NO (go to Item VI-B)	intermediate or final product or byproduct?

EPA Form 3510-2C (8-90) PAGE 3 of 4 CONTINUE ON REVERSE Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

YES (identify the test(s) are	3 years? od describe their purposes below)	NO (go to Section VIII)	
CONTRACT ANALYSIS INFORMA	TION		
re any of the analyses reported in Ite	m V performed by a contract laboratory or consulting firm?		
YES (list the name, addre.	ss, and telephone number of, and pollutants analyzed by, or firm below)	NO (go to Section IX)	
	2. j		
A. NAME	B, ADDRESS	C. TELEPHONE	
	B. ADDRESS 2040 Savage Road, Charleston SC 29407	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
L Laboratories LLC		(area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD,
L Laboratories LLC pe Fear Analytical LLC w Mexico Water Testing	2040 Savage Road, Charleston SC 29407	(area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
L Laboratories LLC pe Fear Analytical LLC w Mexico Water Testing	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
L Laboratories LLC pe Fear Analytical LLC www.mexico.water Testing	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
EL Laboratories LLC upe Fear Analytical LLC ew Mexico Water Testing aboratory Inc.	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
L Laboratories LLC pe Fear Analytical LLC w Mexico Water Testing boratory Inc. CERTIFICATION certify under penalty of law that this of usualfied personnel properly gather are irectly responsible for gathering the irect	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my keeping and the submitted is to the submitted is to the submitted is to the submitted is the submitted is to the submitted is to the submitted is the submitted is to the submitted is the submitted is the submitted is to the submitted is the submitted	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 ection or supervision in accordainy of the person or persons we nowledge and belief, true, accurately	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli
L Laboratories LLC pe Fear Analytical LLC www.Mexico.Water Testing boratory Inc. CERTIFICATION certify under penalty of law that this of the control of	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 locument and all attachments were prepared under my directly devaluate the information submitted. Based on my inquisionmation, the information submitted is, to the best of my keep false information, including the possibility of fine and impris	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 ection or supervision in accordainy of the person or persons we nowledge and belief, true, accurately	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personates are system or those personates and complete I am aware that the system or those personates are system or the system or those personates are system or the system or those personates are system or the system or
DE Laboratories LLC Type Fear Analytical LLC The Mexico Water Testing aboratory Inc. CERTIFICATION Certify under penalty of law that this couplified personnel properly gather are significant penalties for submitting in the person of the penalties for submitting and the penalties for submitting in the penalties for submitting and the penalties for submitting	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 locument and all attachments were prepared under my directly devaluate the information submitted. Based on my inquisionmation, the information submitted is, to the best of my keep false information, including the possibility of fine and impris	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (ction or supervision in accordating of the person or persons with moveledge and belief, true, accomment for knowing violations.	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personates are system or those personates and complete I am aware that the system or those personates are system or the system or those personates are system or the system or those personates are system or the system or
A NAME & OFFICIAL TITLE (type or price is considered with the cons	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquision, the information submitted is, to the best of my keep false information, including the possibility of fine and imprision.) The Laboratory Director ESHQSS	(stion or supervision in accordary of the person or persons we nowledge and belief, true, accument for knowing violations.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personate, and complete I am aware that the system or those personates are system or those personates and complete I am aware that the system or those personates are system or the system or those personates are system or the system or those personates are system or the system or

EPA	ID	No.	NN	1089	900	105	15	
CC	TNC	INUE	DF	RO	МТ	HE	FRC	TN
			1.0					

YES (identify the test(s) and descri	ribe their purposes below)	NO (go to Section VIII)	
EXTR	A PAGE FOR S	SIGNATURE O	NLY
	erformed by a contract laboratory or consulti telephone number of, and pollutants analyzed by below)		
	40 manual 2 400	C. TELEPHONE	D DOLLLITANTO ANALYZE
A. NAME	B, ADDRESS	(area code & no.)	D. POLLUTANTS ANALYZEI (list)
A. NAME	B, ADDRESS		
A. NAME	B. ADDRESS		
ERTIFICATION If y under penalty of law that this documer fied personnel properly gather and evaluatly responsible for gathering the informatic ignificant penalties for submitting false info	nt and all attachments were prepared under uate the information submitted. Based on i on, the information submitted is, to the best formation, including the possibility of fine an	r my direction or supervision in accordance my inquiry of the person or persons who to f my knowledge and belief, true, accurat	with a system designed to assure manage the system or those pers
ERTIFICATION Itify under penalty of law that this documer lifed personnel properly gather and evaluatly responsible for gathering the informatic	nt and all attachments were prepared under uate the information submitted. Based on i ion, the information submitted is, to the best formation, including the possibility of fine an	(area code & no.) my direction or supervision in accordance my inquiry of the person or persons who to f my knowledge and belief, true, accurated imprisonment for knowing violations.	with a system designed to assure manage the system or those pers

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.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

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.

				2. EFFLU	ENT			3. UN (specify if			i, INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AVI		1 110 05	CONCEN		a. LONG T AVERAGE \		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a. CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	<1.00	<2.7e-1	(E)				1	mg/L	lbs	NA	NA	NA
b, Chemical Oxygen Demand (COD)	38.7	10.3					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TUC)	3.69	0.985					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	0.70	0.187	0.7	8.42e-2	0.700	5.47e-2	17	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0268	7.15e-3	(D)	1		-	1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.0320	(A)	VALUE 0.0144	(A)	VALUE 0.0094	(A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 19.9	(B)	VALUE 18.6	(B)	VALUE 18.3 (E	3)	3	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 23.9	(B)	VALUE 22.9	(B)	VALUE 22.2 (E	3)	3	°C		VALUE NA		NA
i, pH	MINIMUM 7 (C)	MAXIMUM 9 (C)	MINIMUM 7.1 (C)	MAXIMUM 8.8 (C)			48	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.

	2. MA	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INT	AKE (option	al)
1. POLLUTANT AND	a	b	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 E (if availab		c. LONG TERM AN (if avoilal	CONTRACTOR OF THE PARTY OF THE	100.00	Ganzan		a. LONG TERM A VALUE	State of the state	
CAS NO. (if available)	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
(24959-67-9) b. Chlorine, Total	X		<0.067	<1.8e-2	(E)				1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		<0 (0)	<.0	0 (0)	0	0 (0)	0	210	mg/L	lbs	NA	NA	NA
c. Color		X	<.5	NA	(F)				1	PCU	NA	NA	NA	NA
d, Fecal Coliform	X		1	NA	(K)			1 44	1	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.481	1.3e-1					1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		1.42	3.8e-1					1	mg/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 390010515
ITEM V-B CONTINUED FROM FRONT

	2. MA	RK "X"				EFFLUENT				4 UNI	TS	5. INT	AKE (option	al)
1, POLLUTANT AND CAS NO.	a. BELIEVED	b, BELIEVED	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A (if availa		d. NO. OF	a CONCEN-		a. LONG TE AVERAGE V		L NO 25
(if available)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.234	6.3e-2					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.41	<3.8e-1	(E)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		6 (0)	1.6	6.0 (0)	7.22e-1	3.146 (0)	2.46e-1	17	mg/L	1bs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	<0.772	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		4.03	NA					1	pCi/L	NA.	NA	NA	NA
(3) Radium, Total		X	<0.549	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.228	NA	(E)				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₃) (14808-79-8)	×		69.3	18.5					1	mg/L	lbs	NA	NA	NA
l. Sulfide (as S)		X	<0.033	<9e-03	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (us SO ₃) (14265-45-3)	X		9.7	2.59	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		0.0204	5.5e-3	(D, F)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	×		<19.3	<5,2e-3	(H,N)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		64_4	1.7e-2	(I)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		45	1.2e-2	(I)				1	ug/L	lbs	NA	NA	NA.
r. Cobalt, Total (7440-48-4)		X	<0.30	<8.0e-5	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)		X	<33.0	<8.8e-3	(E)				1	ug/L	lbs	NA	NA	NA
t Magnesium, Total (7439-95-4)	X		8230	2.2					1	ug/L	1bs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		2.92	7.79e-4	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<2.7e-4	(E)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<2.7e-4	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<5.3e-4	(E,N)				1	ug/L	lbs	NA	NA	NA

7 of 15

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER NM0890010515 03A181

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for

		MARK "X"				3, E	FFLUENT				4. UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ave		4 NO OF	- CONCEN		a. LONG T AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	30000000000
METALS, CYANIDI	E, AND TOT	TAL PHENO	LS												
1M. Antimony, Total (7440-36-0)			X	<1	<3e-4	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		2.55	6.8e-4	(D)				1	ug/L	1bs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.20	<5e-5	(G)				1	ug/L	lbs	NA	NA	NA.
4M. Cadmium, Total (7440-43-9)			X	<0.30	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		12.5	3.3e-3	(1)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		3.24	8.7e-4					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.50	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA
8M, Mercury, Total (7439-97-6)	-,=1		X	<0.067	<2e-5	(H)				1	ug/L	lbs	NA	NA	NA
9M, Nickel, Total (7440-02-0)		X		1.88	5e-4	(D)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<5e-4	(G,N)				ī	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)		17 - 1	X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.600	<2e-4	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)			X	<3.30	<9e-4	(G)				1	ug/L	1bs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols. Total		X		<1.67	<4e-4	(E)				1	ug/L	1bs	NA	NA	NA
DIOXIN								-							

chlorodibenzo-P-Dioxin (1764-01-6)

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE Los Álamos nal Laboratory
EPA ID No. 390010515
CONTINUED FROM THE FRONT

L'ALIMENTE.	- 2	MARK "X					FFLUENT				4. UN	ITS		KE (optiona	d)
1. POLLUTANT AND CAS NUMBER	a TESTING	b. BELIEVED	c BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		VALUE (if av.		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	REQUIRED		ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	-VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<4e-4	(G)				1	ug/L	1bs	NA.	NA	NA
2V_Acrylonitrile (107-13-1)			X	<1.67	<4e-4	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)		1	X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)			X	<0.333	<9e-5	(G)				1	ug/L	1bs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<4e-4	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(5)									
14V. 1.1-Dichloro- ethane (75-34-3)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<9e-5	(G)				i	ug/L	1bs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<9e-5	(G)				1	ug/L	1bs	NA	NA	NA
17V, 1,2-Dichloro- propane (78-87-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<9e-5	(G,L)				1	úg/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<9e-5	(G)				1	ug/L	1bs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<9e-5	(E)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-4

CONTINUE ON PAGE V-5

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

CONTINUED FRO		2. MARK "X	0			3, E	FFLUENT				4. UN	ITS	5, INTA	AKE (option	ul)
1, POLLUTANT AND	a	b.	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		VALUE (if ave		4 10 05	a, CONCEN-		a. LONG T AVERAGE V		b. NO. OI
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS (com	tinued)											*
22V Methylene Chloride (75-09-2)			X	<1.67	<4e-4	(G)	1 1			1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<9e-5	(G)				1	ug/L	1bs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<9e-5	(G)			-	1	ug/L	1bs	NA	NA	NA
25V. Toluene (108-88-3)			X	<0.333	<9e-5	(G)		1 = 9		1.	ug/L	lbs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)	1		X	<0,333	<9e-5	(G)		1		1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<9e-5	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<9e-5	(G)				01.	ug/L	lbs	NA	NA	NA
30V, Trichloro- fluoromethane (75-69-4)						(J)									T = T
31V Vinyl Chloride (75-Q1-4)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<8e-4	(G)				1	ug/L	1bs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<1e-3	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3,00	<8e-4	(E)				1	ug/L	1bs	NA	ŅA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.00	<8e-4	(E)				1	ug/L	1bs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<8e-4	(G)				1	ug/L	1bs	NA	NA	NA
10A. Phenol (108-95-2)	G= 1	11	X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Los Alamos : al Laboratory
EPA ID No. N __90010515
CONTINUED FROM THE FRONT

V 6300 12 VIE		2. MARK "X	B				FFLUENT				4. UN	ITS	5. INTA	KE (options	11)
1. POLLUTANT AND CAS NUMBER	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ave		1 NO OF	- CONOTN		a LONG T AVERAGE V		
(if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b, MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	- BASE/NI	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.90	<1e-3	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.300	<8e-5	(G)				î	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.300	<8e-5	(G)				i	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.300	<8e-5	(G)	1-1			1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.300	<8e-5	(E)	1			1	ug/L	1bs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
11B, Bis (2-('hloro- ethyl) Ether (111-44-4)			×	<3.00	<8e-4	(G)	-=1			1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			×	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	ŅĀ	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			×	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			×	<0.410	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
21B 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

CONTINUE ON PAGE V-7

Up. A	- 3	2. MARK "X	n.			3, E	FFLUENT				4. UN	ITS	5. INT/	AKE (optioni	d)
1. POLLUTANT AND CAS NUMBER	a.	b.	Ċ.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 ((if availal		VALUE (if ave		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE V		b. NO. OF
(if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B_1,4-Dichloro- benzene (106-46-7)			X	<0.333	<9e-5	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.00	<8e-4	(G)				ì	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.300	<8e-5	(G)		1	L	1	ug/L	1bs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
26B, Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<8e-5	(G)				1	ug/L	1bs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.00	<8e-4	(G)				1	ug/L	1bs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<8e-4	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
30B, 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.00	<8e-4	(G)				1	ug/L	1bs	NA	NA	NA
31B, Fluoranthene (206-44-0)			X	<0.300	<8e-5	(G)				1	ug/L	1bs	NA	NA	NA
32B, Fluorene (86-73-7)		==1	X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	AN	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<8e-5	(G)				-1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.50	<9e-4	(G)				1	ug/L	lbs	NA	NA	NA
398, Naphthalene (91-20-3)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
10B. Nitrobenzene (98-95-3)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
11B. N-Nitro- sodimethylamine 62-75-9)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
12B, N-Nitrosodi- N-Propylamine 621-64-7)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

Los Alamos nal Laboratory EPA ID No. 390010515 CONTINUED FROM THE FRONT

William Street		2, MARK "X	y			3, E	FFLUENT				4 UN	ITS	5. INTA	KE (option	d)
1. POLLUTANT AND	a	b.	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava		4 NO OF	- CONCEN		a, LONG T AVERAGE \		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-5)			X	<3.00	<8e-4	(G,M)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.300	<8e-5	(E)				1	ug/L	lbs	NA	NA	NA
45B, Pyrene (129-00-0)			X	<0.300	<8e-5	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<8e-4	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
1P_Aldrin (309-00-2)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
2P. α-BHC (319-84-6)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00672	<2e-6	(G)			(I	1	ug/L	lbs	NA	NA.	NA
5P. δ-BHC (319-86-8)			X	<0.00672	<2e-6	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.0773	<2e-5	(G)] = [1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0101	<3e-6	(G)		-	1	1	ug/L	1bs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
11P_α-Enosulfan (115-29-7)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0101	<3e-6	(G)				1.	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0101	<3e-6	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
16P, Heptachlor (76-44-8)			X	<0.00672	<2e-6	(G)	1			1.	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-9

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

OUTFALL NUMBER

NM0890010515

03A181

CONTINUED FROM PAGE V-8

100000000000000000000000000000000000000	2	MARK "X	n,			3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (optioni	11)
1, POLLUTANT AND	a	b	c.	a, MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ava		- NO OF	CONCEN		a. LONG T AVERAGE V		J. NO. 05
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00672	<2e-6	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0378	<1e-5	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.152	<4e-5	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 03A181

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
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.
Н	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.
1	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.
М	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215
Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application

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.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

1	OLIT	FEALL	LOCA	TION
ι.	UUI	FALL	LUCA	HUN

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	E	B, LATITUDE C, LONGITUDE 1, DEG. 2, MIN. 3, SEC. 1, DEG. 2, MIN. 3, SEC. D, RECEIVING WATER (name)	Se a Maria de Cara de Albanda do 11 de				
(list)	1, DEG.	2, MIN.	3, SEC.	1. DEG	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
3A199	35.00	52.00	20.00	106.00	18.00	46.00	Ephemeral Tributary Sandia Canyon in
							Water Quality Segment 20.6.4.126 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. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATME	NT	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b, LIST CO TABLI	DES FROM E 2C-1
03A199	Laboratory Data Communications	36,024 GPD	Dechlorination	2	E
	Center (LDCC)		Disinfection (other)	2	н
	- Treated Cooling Tower Blowdown		Reduction	2	L
				- 1	

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

	1			L	NO (go to Sec	tion III)				
					QUENCY			4. FLOW	1011	
	9	OPERATION(s)		S PER	b. MONTHS	a FLOW RA	TE (in mgd)			
1. OUTFALL NUMBER (list)		TRIBUTING FLOW (list)	(spe	cify age)	PER YEAR (specify average)	1, LONG TERM AVERAGE	2 MAXIMUM DAILY	1. LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATION (in days)
33A199	Laboratory Data (LDCC) - Treated C	Communication			12	0.036	0.074	36,024	in the terms and un 2. AFFECTED OUT (list outfall numb dit or loan conditions. 4. FINAL COMP a. REQUIRED	365
II. PRODUCTI A. Does an effi	ON uent guideline limitati		EPA under Section 3		the Clean Water NO (go to Sec		ur facility?			
B. Are the limit	ations in the applicab YES (complete Item I		expressed in terms		NO (go to See		eration)?			
	ered "yes" to Item III-	B, list the quantity		_			production, ex	pressed in the	terms and uni	ts used in the
applicable 6	effluent guideline, and		ed outfalls. AGE DAILY PRODU	CTION	١			2.1	FOTES SI	FALLS
a. QUANTITY	PER DAY b. UN	TS OF MEASURE	1	_	ON, PRODUCT	, MATERIAL, E	rc.		the terms and un AFFECTED OUT (list outfall numb 4. FINAL COMP a. REQUIRED	
NA.	NA		NA	_	(specify)			NA		
treatment e	MENTS ow required by any squipment or practices ditions, administrative	s or any other envir	onmental programs v	vhich r	may affect the di	scharges descri	bed in this app	olication? This in	ncludes, but is	
A. Are you no treatment of permit cond	ow required by any equipment or practices ditions, administrative YES (complete the fo	s or any other envir or enforcement or allowing table)	onmental programs v lers, enforcement co	which n	may affect the di	scharges descri ers, stipulations,	bed in this app	olication? This in and grant or loa	ncludes, but is in conditions.	not limited to
A. Are you no treatment e permit cond	ow required by any equipment or practice ditions, administrative	or any other envir or enforcement ord allowing table)	onmental programs viers, enforcement co	which r mplian [may affect the di ce schedule lett NO (go to Ite	scharges descri ers, stipulations,	bed in this app court orders,	olication? This ir and grant or loa	ncludes, but is in conditions.	not limited to
A. Are you no treatment e permit cond	ow required by any squipment or practice: ditions, administrative YES (complete the for ATION OF CONDITION)	or any other envir or enforcement ord allowing table)	onmental programs vers, enforcement co CTED OUTFALLS	which remplian	may affect the di ce schedule lett NO (go to Ite	scharges descri ers, stipulations, m IV-B)	bed in this app court orders,	olication? This ir and grant or loa	ncludes, but is in conditions.	not limited to

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

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

CONTINUED FROM PAGE 2

NM0890010515

om any outfall. For every poll 1. POLLUTANT			ytical data in your possession. 2. SOURCE
0.000 00 0.000 0.000 0.000	NA	NA	NA
TENTIAL DISCHARGES NO	OT COVERED BY ANALYSIS		
pollutant listed in Item V-C a	a substance or a component of a substance	which you currently use or manufacture as an	intermediate or final product or buproduct?
		TA	intermediate or final product or byproduct?
		NO (go to Item VI-B)	The mediate of final product of byproduct?
		NO (go to Item VI-B)	The mediate of final product of byproduct?
		NO (go to Item VI-B)	The intermediate of final product of byproduct?
		NO (go to Item VI-B)	The intermediate of tinal product of byproduct?
		NO (go to Item VI-B)	Intermediate of final product of dyproduct?
		NO (go to Item VI-B)	The intermediate of tinal product of byproduct?

L ILO (identify the realis) th	3 years? d describe their purposes below)	NO (go to Section VIII)	
A.	d describe their purposes below)	✓ NO (go to Section VIII)	
The second secon	m V performed by a contract laboratory or consulting firm?	NO (go to Section IX) C. TELEPHONE	D. POLLUTANTS ANALYZED
EL Laboratories LLC	2040 Savage Road, Charleston SC 29407	(area code & no.)	VOC, SVOC, Pesticides,
			Metals, Radiochemistry, General Chemistry, BOD,
ape Fear Analytical LLC	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(910) 795-0421	TSS, PCB Dioxins and Furans
Jew Mexico Water Testing	3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532	(910) 795-0421 (505) 929-4545	TSS, PCB
ew Mexico Water Testing aboratory Inc. K. CERTIFICATION I certify under penalty of law that this or a control of the control	Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ocument and all attachments were prepared under my dired evaluate the information submitted. Based on my inqui	(505) 929-4545 action or supervision in accorda	Dioxins and Furans E-Coli Toe with a system designed to assure in the manage the system or those pers
New Mexico Water Testing New Mexico Water Test	401 North Coronado Ave, Espanola, NM 87532	ection or supervision in accorda iny of the person or persons w nowledge and belief, true, accu	Dioxins and Furans E-Coli Toe with a system designed to assure in the manage the system or those pers
X. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather are directly responsible for gathering the ir are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or pr	ocument and all attachments were prepared under my directly devaluate the information submitted. Based on my inquision, the information submitted is, to the best of my kealse information, including the possibility of fine and imprision.	ection or supervision in accorda iny of the person or persons w nowledge and belief, true, accu	Dioxins and Furans E-Coli Toe with a system designed to assure the manage the system or those persurate, and complete, I am aware that the
X. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather are directly responsible for gathering the irrare significant penalties for submitting A. NAME & OFFICIAL TITLE (type or protected in the content of	ocument and all attachments were prepared under my director and the information submitted. Based on my inquision, the information submitted is, to the best of my kan be information, including the possibility of fine and imprision.	ection or supervision in accordating of the person or persons we nowledge and belief, true, accomment for knowing violations. B. PHONE NO. (area code & no. (505) 667-4218	Dioxins and Furans E-Coli Toe with a system designed to assure the manage the system or those persurate, and complete, I am aware that the
qualified personnel properly gather ar directly responsible for gathering the ir are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or pr	ocument and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment and all attachments were prepared under my director attachment attachmen	ection or supervision in accordation of the person or persons with the person of the p	Dioxins and Furans E-Coli Toe with a system designed to assure the manage the system or those persurate, and complete, I am aware that the

LA-UR-19-22215 Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application

VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to believe relation to your discharge within the last 3 years?	that any biological test for acute or o	hronic toxicity has been made on any of you	r discharges or on a receiving water in
YES (identify the test(s) and describe	e their purposes below)	NO (go to Section VIII)
	7,		
VIII. CONTRACT ANALYSIS INFORMATION		SIGNATURE C	DNLY
Were any of the analyses reported in Item V perfo	rmed by a contract laboratory or cor	sulting firm?	
YES (list the name, address, and tele each such laboratory or firm bel	phone number of, and pollutants analyz ow)	ed by, NO (go to Section IX)	
A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
IX, CERTIFICATION	Market Company		
I certify under penalty of law that this document a qualified personnel properly gather and evaluate directly responsible for gathering the information, are significant penalties for submitting false inform	the information submitted. Based the information submitted is, to the	on my inquiry of the person or persons wh best of my knowledge and belief, true, accu-	no manage the system or those persons
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)	
William S. Goodrum, Manager Los A	Alamos Field Office	(505) 667-5105	
C. SIGNATURE		5-25-19	
EDA Form 3510 3C (9 00)	-2000		

EPA Form 3510-2C (8-90)

PAGE 4 of 4

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.

EPALD: NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

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.

				2. EFFLU	ENT			3. UN (specify if			4. INTAKE (optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if avail		c. LONG TERM AVR (if available		J NO OF	CONCEN		a. LONG T AVERAGE \		L NO OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.82	1.12	(D)				1	mg/L	1bs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	37.1	22.9					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	8.84	5.46					1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	4.7(A)	2.90	4.7(A)	1.79	1.51(A)	0.476	17	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0504	0.0311					1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0 . 074	(A)	VALUE 0.0457	(A)	VALUE 0.036 (2	4)	364	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 19.1	(B)	VALUE 18.6	(B)	VALUE 17.9 (B)/	12	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 24.3	(B)	VALUE 23.4	(B)	VALUE 22.2 (B)	12	°C		VALUE		NA
i, pH	MINIMUM 7.3 (C)	MAXIMUM 8.6 (C)	MINIMUM 7.5 (C)	MAXIMUM 8.5 (C)			209	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.

	2 MAI	RK "X"			3,	EFFLUENT				4. UNI	TS	5. INT	AKE (option	al)
1. POLLUTANT AND	a.	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I		c. LONG TERM A' (if availa			Va cusani		a. LONG TERM A VALUE	A Company of the Comp	
(if available) PR a. Bromide	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		3.75	2.32					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0.98 (I,0)	0.6052	0.98 (1,0)	0.373	0.02 (1,0)	0.006	209	mg/L	lbs	NA	NA	NA
c. Color		X	<5	NA	(E,F)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)				í	No/100mL	lbs	NA	NA	NA
e. Fluoride (16984-48-8)	X		0,278	0.1717	TEET				1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		1.4	0.8646					1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

Los Alamos : al Laboratory
EPA ID No. N. 90010515
ITEM V-B CONTINUED FROM FRONT

Salara Salar	2, MA	RK "X"				EFFLUENT				4. UNI	TS	5. INT/	KE (optiona	il)
1. POLLUTANT AND CAS NO.	a	b	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A' (if availa		4 NO OF	- DONOTH		a, LONG TE AVERAGE V		L NO 05
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as V)	X		0.852	0.5262					1	mg/L	lbs	NA	NA	NA
n. Oil and Grease	X		<1.51	<0.9325	(E,N)				1	mg/L	lbs	NA	NA	NA
. Phosphorus as P), Total 7723-14-0)	X		1.58 (0)	0.9757	1,5 (0)	0.602	0.7239 (0)	0.228	17	mg/L	lbs	NA	NA	NA
Radioactivity														
(1) Alpha, Total		X	<2.88	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		5.8	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		0.7747	NA					1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		0.740	NA					1	pCi/L	NA	NA	NA	NA
k, Sulfate (us SO ₃) (14808-79-8)	X		25.5	15.748					1	mg/L	lbs	NA	NA	NA
(as S)		X	<0.033	<0.0204	(E)				1	mg/L	lbs	NA	NA	NA
m, Sulfite (us SO ₃) (14265-45-3)	X		9.1	5.62	(0)				1	mg/L	1bs	NA	NA	NA
n. Surfactants		X	<0.017	<0.0105	(E,F)				1	mg/L	1bs	NA	NA	NA
o, Aluminum, Total (7429-90-5)	X		<19.3	<0.0119	(H,N)		11		1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X	1 - 41	51.7	0.0319	(1)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		34.9	0.0216	(1)		1		1	ug/L	1bs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)		X	<33	<2e-02	(E)		1		1	ug/L	1bs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X		6620	4.09					1	ug/L	lbs	NA	NA	NA
u, Molybdenum, Total (7439-98-7)	X		1.85	1e-03	(1)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	X		<1	<6e-04	(E,N)		1		1	ug/L	lbs	NA	NA	NA
w, Tin, Total (7440-31-5)		X	<1	<6e-04	(E)				hì	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)	X		<2	<1e-3	(E,N)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-2

CONTINUE ON PAGE V-3

Los Alamos National Laboratory EPA ID No. NM0890010515

EPA I.D. NUMBER (copy from Tiem 1 of Form 1) OUTFALL NUMBER
NM0890010515 03A199

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater, Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

The Sanata and the		2. MARK "X				3, E	FFLUENT	4. UN	ITS	5. INTA	KE (options	al)			
1. POLLUTANT AND	а	b	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 E (if availab		c. LONG TERM VALUE (if ava		1 NO OF	- CONCEN		a. LONG T AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
METALS, CYANIDI	E, AND TO	TAL PHENC	DLS												
1M. Antimony, Total (7440-36-0)			X	<1	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		<2	<1e-03	(G, N)				1	ug/L	1bs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
5M, Chromium, Total (7440-47-3)		X		7.88	5e-03	(D)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		3.15	2e-03					à	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		<0.5	<3e-04	(G,N)				1	ug/L	lbs	NA	NA	NA
8M, Mercury, Total (7439-97-6)		X		<0.067	<4e-5	(H, N)				1-1-	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		<0.6	<4e-04	(H, N)				1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		<2	<1e-03	(G, N)				1	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<2e-04	(G)			-	1	ug/L	lbs	NA	NA	NA
12M. Thallium, Total (7440-28-0)			X	<0.6	<4e-04	(H)			1	ì	ug/L	1bs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		3.6	2e=03	(D)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<1e-03	(G)		1	1 _ 1	1	ug/L	1bs	NA	NA	NA
15M, Phenols, Total		X		<1.67	<1e-03	(E,N)			1 - 1	1	ug/L	lbs	NA	NA	NA
DIOXIN															

2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-5) DESCRIBE RESULTS The result was less than the detection limit <10.3 pg/L, however, the detection limit used was greater than the MQL of 10.0 pg/L

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

man de la compansa de la		2. MARK "X	u e		3. EFFLUENT								5, INTA	KE (option	ıl)
1. POLLUTANT AND CAS NUMBER	a	b.	c.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availa		VALUE (if av		d. NO. OF	a. CONCEN-		a, LONG T AVERAGE V		b. NO. OF
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE:
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<1E-03	(G)		I -		1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<1E-03	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(3)									
5V. Bromoform (75-25-2)		X		0.85	5E-04	(D)				1	ug/L	lbs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		<0.333	<2E-04	(G,N)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<1e-03	(E)				1	ug/L	lbs	NA	NA	NĄ
11V. Chloroform (67-66-3)		X		<0.333	<2E-04	(E,N)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)		X		<0.333	<2E-04	(E,N)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(5)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<2E-04	(G,L)				i	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

	2. MARK "X"		7			3. E	FFLUENT				4 UN	ITS	5. INTA	KE (opnon	al)
1. POLLUTANT AND	a.	b.	C.	a MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av		NO OF	- CONCEN		a. LONG T AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	CONCENTRATION	(2) MASS	ANALYSE.
GC/MS FRACTION	- VOLATII	E COMPO	UNDS (con	(inued)											
22V. Methylene Chloride (75-09-2)		X		<1.67	<1e-03	(G)	Egen L			1	ug/L	1bs	NA	NA	ŇA
23V, 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
24V, Tetrachloro- ethylene (127-18-4)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
25V, Toluene (108-88-3)		X		<0.333	<2e-04	(G,N,O)				1	ug/L	1bs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			×	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
27V 1,1,1-Trichloro- ethane (71-55-6)	1		X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)		1	X	<0.333	<2e-04	(G)	- 11			1	ug/L	1bs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)				i ju				173	
31V. Vinyl Chloride (75-01-4)			X	<0.333	<2e-04	(G)				1	ug/L	1bs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS	3												
1A. 2-Chlorophenol (95-57-8)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.03	<2e-03	(G)				i	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
4A, 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.05	<3e-03	(G)				1	ug/L	lbs	NA	NA	NA
6A, 2-Nitrophenol (88-75-5)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.03	<2e-03	(E)			-	1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)	- 11		X	<3.03	<2e-03	(E)		1	1	1	ug/L	1bs	NA	NA	NA.
9A. Pentachloro- phenol (87-86-5)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
11A, 2,4,6-Trichloro- phenol (88-05-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Los Alamos 1al Laborat EPA ID No. 90010515 nal Laboratory

CONTINUED FROM THE FRONT

		2. MARK "X		3. EFFLUENT								ITS		KE (opuona	()
1. POLLUTANT AND CAS NUMBER	a.	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	TESTING REQUIRED	BELIEVED PRESENT		(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/NI	EUTRAL CO	OMPOUND	S		te view a									
1B, Acenaphthene (83-32-9)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)	1	!! == !	X	<0.303	<2e-04	(G)		1 4	4 - 1	1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.94	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			×	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.303	<2e-04	(G)				1	ug/L	1bs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.03	<2e-03	(E)				1	ug/L	1bs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
14B. 4-Bromopheny Phenyl Ether (101-55-3)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
15B, Butyl Benzyl Phthalate (85-68-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.414	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
208. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-6 CONTINUE ON PAGE V-7

A. V. J. July W.	2. MARK "X"		u .			3. E	FFLUENT				4. UN	TS	5. INTA	KE (option	al)
1. POLLUTANT AND	a.	b.	c	a. MAXIMUM DA	VILY VALUE	b. MAXIMUM 30 ! (if availa		c LONG TERM VALUE (if ave		1 110 05	2011251		a LONG T AVERAGE V		L NO 05
CAS NUMBER (If available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	N - BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B, 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
23B, 3,3-Dichloro- benzidine (91-94-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
27B, 2,4-Dinitro- toluene (121-14-2)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.03	<2e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA.
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.303	<2e-04	(G)				i	ug/L	lbs	NA	NA	NA
32B, Fluorene (86-73-7)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
33B, Hexachloro- benzene (118-74-1)			X	<3.03	<2e-03	(G)				i	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)	11		X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
358, Hexachloro- cyclopentadiene (77-47-4)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.03	<2e-03	(G)				1	ug/L	1bs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.303	<2e-04	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.54	<2e-03	(G)			1 = 1	1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
41B, N-Nitro- sodimethylamine (62-75-9)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	ŅĀ	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			×	<3.03	<2e-03	(G)				1	úg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 390010515
CONTINUED FROM THE FRONT

1 POLLUTANT	2 MARK "X"					3, E	FFLUENT				4. UN	4. UNITS 5. INTAKE (option				
1. POLLUTANT AND	a,	b	c	a. MAXIMUM DA	NILY VALUE	b. MAXIMUM 30 I		c LONG TERM VALUE (if av		J NO OF	- CONCEN		a. LONG T AVERAGE V		b. NO. OF	
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE	
GC/MS FRACTION	-BASE/N	EUTRAL CO	MPOUND	S (continued)												
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.03	<2e-03	(G,M)				1	ug/L	1bs	NA	NA	NA	
44B, Phenanthrene (85-01-8)			X	<0.303	<2e-04	(E)				1	ug/L	lbs	NA	NA	NA	
45B, Pyrene (129-00-0)			X	<0.303	<2e-04	(G)				1	ug/L	1bs	NA	NA	NA	
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.03	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA	
GC/MS FRACTION	N - PESTIC	IDES														
1P. Aldrin (309-00-2)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA	
2P- α-BHC (319-84-6)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA	
3P. β-BHC (319-85-7)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA	
4P. γ-BHC (58-89-9)			X	<0.007	<4e-06	(G)	1			1	ug/L	lbs	NA	NA	NA	
5P. δ-BHC (319-86-8)			X	<0.007	<4e-06	(E)				1	ug/L	lbs	NA	NA	NA	
6P. Chlordane (57-74-9)			X	<0.0805	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA	
7P. 4,4'-DDT (50-29-3)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA	
8P. 4,4'-DDE (72-55-9)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA	
9P. 4,4'-DDD (72-54-8)			X	<0.0105	<6e-06	(G)		4		1	ug/L	lbs	NA	NA	NA	
10P. Dieldrin (60-57-1)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA	
11P. α-Enosulfan (115-29-7)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA	
12P. β-Endosulfan (115-29-7)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA	
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA	
14P_ Endrin (72-20-8)			X	<0.0105	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA	
15P, Endrin Aldehyde (7421-93-4)			X	<0.007	<4e-06	(G)				1	ug/L	1bs	NA	ÑA	NA	
16P, Heptachlor (76-44-8)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA	

EPA Form 3510-2C (8-90) PAGE V-9

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

OUTFALL NUMBER

NM0890010515

03A199

CONTINUED FRO	111 7 251 35 15 15 15	2. MARK "X	ni .			3 F	FFLUENT				4. UNITS		5. INTAKE (optional)		
1. POLLUTANT AND	a,	b	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)			Jan Sin		a. LONG TERM AVERAGE VALUE		
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	d, NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	- PESTICI	DES (contin	ued)												
17P, Heptachlor Epoxide (1024-57-3)			X	<0.007	<4e-06	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
22P, PCB-1248 (12672-29-6)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0354	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.158	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C **OUTFALL - 03A199**

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
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.
Н	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.
1	The analytical result provided is greater than the MDL but is below the EPA Region 6 MQL.
1	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.
М	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

15 of 15

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

U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

₽EPA 2C EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program NPDES

A. OUTFALL NUMBER	E	B. LATITUDE		C.	LONGITUDE		First Control of the
(list)	1, DEG,	2, MIN,	3, SEC,	1, DEG. 2, MIN. 3, SEC. D. RE		D. RECEIVING WATER (name)	
04A022	35.00	52.00	17.00	106.00	18.00	58.00	Mortandad Canyon, Water Quality
711022							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. OUT-	2. OPERATION(S) CON-	TRIBUTING FLOW	3. TREATMENT						
FALL NO. (list)	5. 51 E. 511 (no.)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b, LIST CO TABL	DES FROM E 2C-1				
04A022	Once Through Cooling Water	1,020 GPD	Dechlorination	2	E				
	- Circulating Tank/Sump		Reduction	2	L				
	- Aīr Washers								
04A022	Treated Emergency Cooling Water	1,008 GPD	Dechlorination	2	E				
	- TA-3-66 Foundry		Reduction	2	L				
	(NOT ROUTINE)								
04A022	Stormwater - TA3-66 Roof Drains	1,413 GPD	Declorination	2	E				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

				a cor	EQUENCY			4 FLOW			
				a DAYS PER				B. TOTAL	VOLUME		
		ERATION(s)		WEEK	b. MONTHS	a. FLOW RA	TE (in mgd)	(specify w			
1. OUTFALL NUMBER (list)	CONTRI	BUTING FLOW (list)		(specify average)	PER YEAR (specify average)	1, LONG TERM AVERAGE	2 MAXIMUM DAILY	1 LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATIO (in days)	
J4A022	Once Through Cool - Circulati - Air Washe	ng Tank/Si	шр	7	12	0.00102 MGD	0.0144 MGD	1,020 GALLONS	14,400 GALLONS	3.65	
	Emergency Cooling - TA-3-66 Fo		ot routine)	0.4	0.7	0.0010 MGD	D.028 MGD	1,008 GALLONS	28,000 GALLONS	22	
	Stormwater - TA-3-66 Ro	of Drains		0.9	1.6	0.0014 MGD	0,007 MGD	1,413 GALLONS	6,894 GALLONS	4.9	
III. PRODUCTI	ON						1 4				
A. Does an eff	uent guideline limitation YES (complete Item III-i		by EPA under S	at the contract of the contrac	the Clean Water		ur facility?				
B. Are the limit	ations in the applicable of		ine expressed i	n terms of pro		measure of ope	eration)?				
C. If you answ applicable of	ered "yes" to Item III-B, effluent guideline, and in	list the quan dicate the affe	ected outfalls.	sents an actua	al measurement		production, ex	pressed in the t	terms and uni	its used in th	
	i i	1. AV	ERAGE DAILY			. 244.222.000		2. AFFECTED OUTFALLS			
a. QUANTITY	PER DAY 6. UNITS	OF MEASU	RE	c. OPERAT	ION, PRODUCT (specify)	, MATERIAL, E	TC.	(list outfall numbers)			
NA	NA		AM					NA			
A. Are you no treatment of	MENTS ow required by any Fed equipment or practices of ditions, administrative or	rany other er	vironmental pro	ograms which ment compliar	may affect the d nce schedule lett	ischarges descriters, stipulations	bed in this app	lication? This ir	cludes, but is		
A. Are you no treatment of permit con	ow required by any Fed equipment or practices o	r any other er enforcement wing (able)	vironmental pro	ograms which ment compliar	may affect the dince schedule lett NO (go to lit	ischarges descri iers, stipulations em (V-B)	bed in this app , court orders,	olication? This in and grant or loa	cludes, but is	s not limited t	
A. Are you not treatment of permit contact. 1. IDENTIFICATION	ow required by any Fed equipment or practices o ditions, administrative or YES (complete the follo	r any other er enforcement wing (able)	orders, enforce	ograms which ment compliar	may affect the dince schedule lett NO (go to lit	ischarges descriters, stipulations	bed in this app , court orders,	olication? This in and grant or loa	ncludes, but is in conditions.	s not limited t	
A. Are you no treatment of permit conduction. 1. IDENTIFICATION AGRICATION A	ow required by any Fed equipment or practices of ditions, administrative or YES (complete the follo ATION OF CONDITION,	r any other er enforcement wing (able) 2, AF	orders, enforce	ograms which ment compliar ALLS DISCHARGE	may affect the dince schedule lett NO (go to lit	ischarges descri iers, stipulations em (V-B)	bed in this app , court orders,	olication? This in and grant or loa	ncludes, but is in conditions. FINAL COMP	s not limited	
treatment of permit con-	ow required by any Fed equipment or practices of ditions, administrative or YES (complete the follo ATION OF CONDITION,	r any other er enforcement wing table) 2, AF	evironmental pro orders, enforce FECTED OUTF.	ograms which ment compliar ALLS DISCHARGE	may affect the dince schedule lett NO (go to lie 3. BRIE	ischarges descri iers, stipulations em (V-B)	bed in this app , court orders,	olication? This in and grant or loa	ncludes, but is in conditions. FINAL COMP	S not limite	

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

CONTINUED FROM PAGE 2

NM0890010515

V. INTAKE AND EFFLUENT CHAR	ACTERISTICS		
A, B, & C: See instructions before		r each outfall – Annotate the outfall number in numbered V-1 through V-9.	n the space provided.
D. Use the space below to list any	of the pollutants listed in Table 2c-3 of the		n to believe is discharged or may be discharged lytical data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NA	NA	NA	NA
VI. POTENTIAL DISCHARGES NO Is any pollutant listed in Item V-C a YES (list all such pol	substance or a component of a substance w	which you currently use or manufacture as an NO (go to Item VI-B)	nintermediate or final product or byproduct?

EPA Form 3510-2C (8-90) PAGE 3 of 4 CONTINUE ON REVERSE Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM THE FRONT

YES (identify the test(s) ar	3 years? nd describe their purposes below)	NO (go to Section VIII)	
II. CONTRACT ANALYSIS INFORMA	TION		
ere any of the analyses reported in Ite	m V performed by a contract laboratory or consulting firm?	N The state of the	
Andrew Control of the	ss, and telephone number of, and pollutants analyzed by,	NO loudy Soution IN	
each such laboratory		NO (go to Section IX)	
	or firm below)		
A. NAME	B. ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED
	B. ADDRESS	(area code & no.)	(list)
	The state of the s		(list) VOC, SVOC, Pesticides, Metals, Radiochemistry,
A. NAME	B. ADDRESS	(area code & no.)	VOC, SVOC, Pesticides,
	B. ADDRESS	(area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD,
	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120,	(area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD,
EL Laboratories LLC	B. ADDRESS 2040 Savage Road, Charleston SC 29407	(area code & no.) (843)556-8171	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
EL Laboratories LLC	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(area code & no.) (843)556-8171	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843)556-8171	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
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EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc.	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM	(area code & no.) (843) 556-8171 (910) 795-0421	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc.	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. CERTIFICATION certify under penalty of law that this of	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directed evaluate the information submitted. Based on my inqui	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 action or supervision in accordar	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. CERTIFICATION certify under penalty of law that this of the personnel properly gather and firectly responsible for gathering the in	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my k	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 action or supervision in accordainy of the person or persons with nowledge and belief, true, accurately accur	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. CERTIFICATION certify under penalty of law that this of the personnel properly gather are lirectly responsible for gathering the interesting the interesting the personnel properly gather are significant penalties for submitting	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my k false information, including the possibility of fine and imprise	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 action or supervision in accordainy of the person or persons with nowledge and belief, true, accurately	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete. I am aware that the
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. CERTIFICATION certify under penalty of law that this of qualified personnel properly gather ar irrectly responsible for gathering the ir- irre significant penalties for submitting in NAME & OFFICIAL TITLE (type or pro-	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my dirend evaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my k false information, including the possibility of fine and imprise term!)	(grea code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (505) 929-4545 ction or supervision in accordarily of the person or persons with moveledge and belief, true, accument for knowing violations. B. PHONE NO. (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete. I am aware that the
ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. CCERTIFICATION certify under penalty of law that this of pualified personnel properly gather are significant penalties for submitting to NAME & OFFICIAL TITLE (type or puichael W. Hazen, Association)	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my k false information, including the possibility of fine and imprisement) Le Laboratory Director ESHQSS	(grea code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (505) 929-4545 ordin or supervision in accordating of the person or persons with mowledge and belief, true, accument for knowing violations. B. PHONE NO. (area code & no.) (505) 667-4218	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete. I am aware that the
EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. CERTIFICATION certify under penalty of law that this of qualified personnel properly gather are incressing in the penalties for submitting and NAME & OFFICIAL TITLE (type or penalties)	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 document and all attachments were prepared under my directly devaluate the information submitted. Based on my inquinformation, the information submitted is, to the best of my k false information, including the possibility of fine and imprisement) Le Laboratory Director ESHQSS	(grea code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (505) 929-4545 ction or supervision in accordarily of the person or persons with moveledge and belief, true, accument for knowing violations. B. PHONE NO. (area code & no.)	(list) VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli The manage the system or those personate, and complete. I am aware that the

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Oxicity has been made on any of your on the NO (go to Section VIII)	
NO (go to Section VIII)	
	NLY
GNATURE O	NLY
NO (go to Section Ιλ') C. TELEPHONE	D. POLLUTANTS ANALYZED
(area code & no.)	(list)
inquiry of the person or persons who my knowledge and belief, true, accura prisonment for knowing violations	e with a system designed to assure that manage the system or those persona te, and complete. I am aware that there
B. PHONE NO. (area code & no.)	
(505) 667-5105	
D. DATE SIGNED 3-19	* *
	C. TELEPHONE (area code & no.) direction or supervision in accordance inquiry of the person or persons who my knowledge and belief, true, accurant for knowing violations. B. PHONE NO. (area code & no.) (505) 667-5105 D. DATE SIGNED

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.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 04A022

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.

				2 EFFLU	ENT			3. UN (specify if		4. INTAKE (optional)		
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if avail		c. LONG TERM AVE		1 110 05	- 000050		a. LONG T AVERAGE		b. NO. OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO, OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.27	0.153	(D)				1	mg/L	1bs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	19.0	2.28	(D)				1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	<0.66	<0.0793	(E)				1	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (TSS)	13.4	1.61	13.4	0.475	3.631	0.0309	18	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	0.0343	0.00412	(D)				1	mg/L	lbs	NA	NA	NA
f, Flow	VALUE 0.0144	(A)	VALUE 0.0043	(A)	VALUE 0.001 (A	A)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 16.2	(B)	VALUE 12.8	(B)	VALUE 12.1 (E	()	13	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 23.1	(B)	VALUE 21.9	(B)	VALUE 20.8 (E	()	13	°C		VALUE NA		NA
I. pH	MINIMUM 7	MAXIMUM 8 - 2	MINIMUM 7.2	MAXIMUM 8.1			191	STANDARE	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.

	2 MAI	RK "X"			3.	EFFLUENT				4. UNI	TS	5. INTAKE (optional)			
1. POLLUTANT AND	a	b,	a. MAXIMUM DA	VILY VALUE	b. MAXIMUM 30 I		c LONG TERM A (if availa		1.00 00	Stance.		a. LONG TERM A VALUE			
CAS NO. (if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES	
a. Bromide (24959-67-9)	X		<0.067	<0.008	(E)				1	mg/L	lbs	NA	ΝA	NA	
b, Chlorine, Total Residual	X		0 (0)	Ö	0 (0)	0	0 (0)	0	41	mg/L	1bs	NA	NA	NA	
c. Color	X		<5	NA	(E,N)				1	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		0.247	0.0297					1	mg/L	lbs	NA	NA	NA	
f. Nitrate-Nitrite (as N)	X		0.215	0.0258					1	mg/L	lbs	NA	NA	NA	

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

Los Alamos 1al Laboratory EPA ID No. 190010515 ITEM V-B CONTINUED FROM FRONT

1 DOLLUTANT	2 MA	RK "X"				EFFLUENT	1			4. UNI	TS	5. INTAKE (optional)		
1. POLLUTANT AND CAS NO.	a BELIEVED	b. BELIEVED	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AV (if availar		d. NO. OF	a. CONCEN-		a. LONG TE AVERAGE V		b. NO. OF
(if available)	PRESENT	ABSENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
g. Nitrogen, Total Organic (as N)	X		0.0434	0.00522	(D)				1	mg/L	lbs	NA	NA	NA
h. Oil and Grease		X	<1.44	<0.173	(E)				1	mg/L	lbs	NA	NA.	NA.
i. Phosphorus (as P), Total (7723-14-0)	X		0.0294	0.00353	(E)				i	mg/L	lbs	NA	NA	NA
. Radioactivity														
(1) Alpha, Total		X	<1.14	NA	(E)				1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		<2.21	NA	(E,N)				1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.534	NA	(E)				1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.19	NA	(E)				1	pCi/L	NA	NA	NA.	NA
k. Sulfate (as SO ₃) (14808-79-8)	×	141	2.48	0.298					1	mg/L	lbs	NA	NA	NA
I. Sulfide (as S)		X	<0.033	<4E-03	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)		X	Ö	0					1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		0.0266	0.0032	(D)				i	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)		×	<19.3	<0.0023	(H)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		64.3	0.00773	(1)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X	3.1	20.9	0.00251	(I)				1	ug/L	lbs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
s. Iron, Total (7439-89-6)	X	4.4	33.2	0.00399	(D)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	×		2800	0.336					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		1.67	2E-04	(I)				1	ug/L	1bs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<1E-04	(E)				1	ug/L	1bs	NA	NA	NA
w. Tin, Total (7440-31-5)	1	X	<1	<1E-04	(E)				1	ug/L	lbs	NA	NA	NA
x, Titanium, Total (7440-32-6)	X		<2	<2E-04	(E,N)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-2

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NM0890010515 04A022

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

the back of the		MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTAKE (optional)			
1. POLLUTANT AND	а	b:	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availal		c. LONG TERM VALUE (if ava		1 110 05	COMOCH		a, LONG T AVERAGE V		- NO O	
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED. ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OI ANALYSE	
METALS, CYANIDE	AND TOT	AL PHENO	LS													
1M, Antimony, Total (7440-36-0)			X	<1	<1E-04	(G)				1	ug/L	1bs	NA	NA	NA	
2M, Arsenic, Total (7440-38-2)		X		<2	<2E-04	(H,N)				1	ug/L	lbs	NA	NA	NA	
3M. Beryllium, Total (7440-41-7)			X	<0.2	<2E-05	(G)				1	ug/L	1bs	NA	NA	NA	
4M. Cadmium, Total (7440-43-9)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA	
5M. Chromium. Total (7440-47-3)		X		3.49	4E-04	(I,D)				1	ug/L	lbs	NA	NA	NA	
6M, Copper, Total (7440-50-8)		X		5.46	7E-04					1	ug/L	lbs	NA	NA	NA	
7M, Lead, Total (7439-92-1)			X	<0.5	<6E-05	(G)	4			1	ug/L	lbs	NA	NA	NA	
8M. Mercury, Total (7439-97-6)			X	<0.067	<8E-06	(H)				1	ug/L	lbs	NA	NA	NA	
9M. Nickel, Total (7440-02-0)			X	<0.6	<7E-05	(H)				1	ug/L	lbs	NA	NA	NA	
10M. Selenium, Total (7782-49-2)		X		<2	<2E-04	(G, N)				1	ug/L	1bs	NA	NA	NA	
11M. Silver, Total (7440-22-4)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA.	NA	
12M, Thallium, Total (7440-28-0)			X	<0.5	<7E-05	(H)			1	1	ug/L	lbs	NA	NA	NA	
13M, Zinc, Total (7440-66-6)		X		26.5	3E-03					1	ug/L	lbs	NA	NA	NA	
14M. Cyanide, Total (57-12-5)			X	<1.67	<2E-04	(G)			1	1	ug/L	lbs	NA	NA	NA	
15M. Phenols, Total			X	<1.67	<2E-04	(E)				1	ug/L	lbs	NA	NA	NA	
DIOXIN				· ·						-						

2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6) DESCRIBE RESULTS Analytical result is <11.7 pg/L (lower than the MDL). However, the MDL is greater than the EPA MQL 10 pg/L.

PAGE V-3

EPA Form 3510-2C (8-90)

CONTINUE ON REVERSE

Los Alamos 1al Laboratory
EPA ID No 390010515
CONTINUED FROM THE FRONT

3.74.1075SL.2V	3	2. MARK "X					FFLUENT				4. UNITS		5. INTAKE (optional		1)
1. POLLUTANT AND CAS NUMBER	a	b _i	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30) (if availa		VALUE (if ave		d. NO. OF	a. CONCEN-	Pari	a. LONG T AVERAGE \		L NO O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	b, NO. OF ANALYSE
GC/MS FRACTION	- VOLATII	E COMPO	UNDS												
1V. Accrolein (107-02-8)	1 = 1		X	<1.67	<2E-04	(G)				1	ug/L	1bs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<2E-04	(G)				1	ug/L	1bs	NA	NA	NA
3V. Benzene (71-43-2)			X	0.333	<4E-05	(G)) p		1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(』)									
5V. Bromoform (75-25-2)			X	<0.333	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
9V, Chloroethane (75-00-3)		233	X	<0.333	<4E-05	(E)				ì	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)		1 1	X	<1.67	<2e-4	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)			X	<0.333	<4E-05	(E)		1		1	ug/L	1bs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(5)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<4E-05	(E)	4			i	ug/L	lbs	NA	NA	NA
15V, 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<4E-05	(G)				1	ug/L	1bs	NA	NA.	NA
16V, 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<4E-05	(G, L)				i	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<4E-05	(E)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-4

		2. MARK "X	n.			3. E	FFLUENT				4. UN	ITS	5, INT	AKE (option	al)
1. POLLUTANT AND	a	b.	Ċ.	a. MAXIMUM DA	ULY VALUE	b MAXIMUM 30 (if availa		c LONG TERM VALUE (if ave		- NO 05	- concen		a. LONG T AVERAGE \	/ALUE	L NO 0
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO, OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS (con	timued)								-1-1			
22V, Methylene Chloride (75-09-2)			X	<1.67	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<4E-05	(G)	L			1	ug/L	lbs	NA	NA	NA
24V, Tetrachloro- ethylene (127-18-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)	11-7		X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA.	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<4E-05	(G)	-			1.1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<4E-05	(E)				1	ug/L	1bs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<4E-05	(G)			7	1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS								-					
1A. 2-Chlorophenol (95-57-8)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.0	<4E-04	(G)				1	ug/L	1bs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.0	<4E-04	(G)	7			i	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.0	<6E-04	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
7A, 4-Nitrophenal (100-02-7)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
BA. P-Chlaro-M- Cresol (59-50-7)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NĀ
9A. Pentachloro- phenol (87-86-5)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

* 00) (() = 1		2 MARK "X					FFLUENT		7.50		4. UN	ITS		KE (optiona	ul)
1. POLLUTANT AND CAS NUMBER	a	p.	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 E (if availal		c. LONG TERM VALUE (if ava	AVRG. ailable)	d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. OF
(if available)	TESTING REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.3	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.3	<4E-05	(E)				1	ug/L	1bs	NA	NA	NA
3B, Anthracene (120-12-7)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
4B, Benzidine (92-87-5)			X	<3.9	<5E-04	(G)				1	ug/L	1bs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.3	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
6B, Benzo (a) Pyrene (50-32-8)			X	<0,3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			×	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.3	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.3	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)			×	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<2E-04	(G)				1	ug/L	lbs	NA	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.3	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
14B. 4-Bromopheny Phenyl Ether (101-55-3)			×	<3.0	<4E-05	(E)				i	ug/L	lbs	NA	NA	NA
15B, Butyl Benzyl Phthalate (85-68-7)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.41	<5E-05	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

		MARK "X"	ů.			3. E	FFLUENT				4. UN	ITS	5, INTA	KE (opnone	ul)
1. POLLUTANT AND	a	b.	c	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (If ave		3 232 322			a, LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO, OF
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.0	<4E-04	(G)				1	ug/L	1bs	NA	NA	NA
24B, Diethyl Phthalate (84-66-2)			X	<0.3	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	E.0>	<4E-05	(G)				1	ug/L	1bs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.0	<4E-04	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.3	<4E-05	(E)				1	ug/L	1bs	NA	NA	NA
30B 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<4e-04	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA.	NA	NA
32B. Fluorene (86-73-7)	-		X	<0.3	<4E-05	(G)				1	ug/L	lbs	AN	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.0	<4E-04	(G)	1			1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.0	<4E-04	(G)	1			1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone (78-59-1)			X	<3.5	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
39B, Naphthalene (91-20-3)			X	<0.3	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3.0	<4E-04	(G)				1	ug/L	lbs	NA	NA	ÑA
42B. N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.0	<4E-04	(G)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

NPDES-F2C-18-008-R0, Form

utfall 04A022 March 2019

CONTINUED FROM THE FRONT

9 44 1144	1	2. MARK "X					FFLUENT				4. UN	ITS	5. INTA	KE (optiona	()
1 POLLUTANT AND CAS NUMBER	ā.	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availat		c. LONG TERM VALUE (if and		4 110 05	a CONCEN		a, LONG T AVERAGE V		L 410 01
(i) available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<4e-04	(G,M)				1	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.3	<4E-05	(E)				1	ug/L	lbs	NA	NA	NA
45B, Pyrene (129-00-0)			X	<0.3	<4E-05	(G)				1	ug/L	lbs	NA	NA	NA
46B, 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.0	<4E-04	(G)	1=1			1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.00739	<9E-07	(G)			I DE	1	ug/L	lbs	NA	NA	NA
2P, α-BHC (319-84-6)			X	<0.00739	<9E-07	(G)				1	ug/L	1bs	NA	NA	NA
3P β-BHC (319-85-7)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.00739	<9E-07	(E)				1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.85	<1E-05	(G)			l-s	1	ug/L	1bs	NA	NA	NA
7P_4,4'-DDT (50-29-3)			X	<0.0111	<1E-06	(G)			L.	1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
10P, Dieldrin (60-57-1)			X	<0.0111	<1E-06	(G)				1	ug/L	1bs	NA	NA	NA
11P, α-Enosulfan (115-29-7)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
12P, β-Endosulfan (115-29-7)			X	<0.0111	<1E-06	(G)			1	1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0111	<1E-06	(G)				1	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.00739	<9E-07	(G)		4		1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-8

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

OUTFALL NUMBER

CONTINUED FROM PAGE V-8

NM0890010515

04A022

		2. MARK "X	N			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a	b,	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c, LONG TERM VALUE (if ava		1 110 05	GONOEN		a. LONG T AVERAGE V		1, 110, 01
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	N - PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00739	<9E-07	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
24P. PCB-1016 (12674-11-2)			X	<0.0351	<4E-06	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.167	<2E-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 04A022

Α	Calculated using data collected between October 2017 and September 2018.
В	Summer (June, July, August) and Winter (December, January, February) temperatures were determined using data collected between October 2017 and September 2018.
С	The pH values provided were determined using data collected between October 2014 and September 2018.
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.
н	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.
1	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.
М	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).
	The analytical data collected for the 2019 permit application indicates that the pollutant was not detected in
N	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215 Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application 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.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

	3 VETTOLESS
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	E	3. LATITUDE		C.	LONGITUDE		A similar of a fall and a fall an
(list)	1. DEG.	2, MIN,	3 SEC.	1, DEG,	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
05A055	30.00	50.00	49.00	106.00	19.00	52.00	Ephemeral Tributary to Canon De Valle,
							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. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATMEN	NT	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b, LIST CO TABLE	DES FROM E 2C-1
05A055	High Explosives Wastewater Treatment	270 GPD	Slow Sand Filtration	i	V
	Facility (HEWTF)		Carbon Adsorption	2	А
	- Treated Effluent		Ion Exchange	2	J
			Evaporation	1	F
		5			

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90) PAGE 1 of 4 CONTINUE ON REVERSE

	torm runoff, leaks, or sp YES (complete the follow		albeilai ges	- 555000 11(NO (go to Sec					
				3. FR	REQUENCY			4. FLOW		
				a DAYS PE		a. FLOW RA	TE (money)	B. TOTAL (specify to		
1. OUTFALL NUMBER (list)		PERATION(s) IBUTING FLOV (list)	V	WEEK (specify average)	b, MONTHS PER YEAR (specify average)	1 LONG TERM AVERAGE	2 MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	C. DURATIO (in days)
5A 055	High Explosives V Facility (HEWTF)			0.1	0.1.	0.0003 MGD	0.0021 MGD	270 Gallons	2,120 Gallons	4
I. PRODUCTI	luent guideline limitation		by EPA under	Section 304 o	f the Clean Water		ur facility?			
3. Are the limit	YES (complete Item III- cations in the applicable		eline expressed	in terms of pro			eration)?			
	YES (complete Item III-	C)			NO (go to Se	ction IV)	Y			e de la compansión de l
applicable	ered "yes" to Item III-B, effluent guideline, and in	list the quar dicate the aff	ntity which repre fected outfalls.	sents an actu	ial measurement	of your level of	production, ex	pressed in the	terms and un	its used in the
		1. A\	ERAGE DAILY					2. AF	FECTED OUT	FALLS
a. QUANTITY	PER DAY b. UNITS	OF MEASU	IRE	c. OPERA	TION, PRODUCT (xpecify)	, MATERIAL, E	TC.		ist outfall numb	
NA	NA		NA		17. 22.			NA		
treatment e	MENTS ow required by any Fe equipment or practices of ditions, administrative of the complete the following the f	r any other e enforcemen	nvironmental pr	ograms which	may affect the d	ischarges descr ers, stipulations	bed in this app	olication? This is	ncludes, but is	
1. IDENTIFICA	ATION OF CONDITION	1	FECTED OUTF	ALLS		ALL DELLO	V. S.	4.1	FINAL COMP	LIANCE DAT
	EEMENT, ETC.	a NO	b. SOURCE OF		3, BRIEF	DESCRIPTION	N OF PROJEC	_	REQUIRED T	b PROJECTED
NA		NA	NA	J. G. T.	NA			NA		IA
discharges	L: You may attach add s) you now have underw									
construction	on.] MARK "X" IF DESCRI	PTION OF A	DDITIONAL CO	NTROL PRO	GRAMS IS ATTA	CHED				
EPA Form 35				A . A	E 2 of 4				CONTINU	E ON PAGE

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

CONTINUED FROM PAGE 2

NM0890010515

Use the space below to list any of	f the pollutants listed in Table 2c-3 of the instruc	tions, which you know or have reason to be	elieve is discharged or may be discha
from any outfall. For every pollutar	nt you list, briefly describe the reasons you believ	e it to be present and report any analytical	data in your possession.
1. POLLUTANT nitrotoluene (2C-3) yrene (2C-3 and 2C-4)	2. SOURCE High Explosives Waste Treatment Facility (HEWTF)	1. POLLUTANT	2. SOURCE
nium (2C-3)	- Chemicals identified on influent Waste Stream Profile forms.		
OTENTIAL DISCHARGES NOT	COVERED BY ANALYSIS		
y pollutant listed in Item V-C a su	bstance or a component of a substance which yo	ou currently use or manufacture as an intern	nediate or final product or byproduct?
OTENTIAL DISCHARGES NOT (y pollutant listed in Item V-C a su YES (list all such pollut	bstance or a component of a substance which yo	ou currently use or manufacture as an intern NO (go to Item VI-B)	nediate or final product or byproduct?
y pollutant listed in Item V-C a su	bstance or a component of a substance which yo	ou currently use or manufacture as an intern NO (go to Item VI-B)	nediate or final product or byproduct?
y pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern	nediate or final product or byproduct?
y pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
y pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?
pollutant listed in Item V-C a su	bstance or a component of a substance which yo	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?

TANKS WITH THE PARTY OF THE PAR	3 years?		discharges or on a receiving water in
YES (identify the test(s) an	nd describe their purposes below)	NO (go to Section VIII)	
VA.			
VIII. CONTRACT ANALYSIS INFORMA			
Were any of the analyses reported in Ite	m V performed by a contract laboratory or consulting fi	rm?	
YES (list the name, addre each such laboratory	ss, and telephone number of, and pollutants analyzed by,	NO (go to Section Ιλ')	
A. NAME	B. ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED
A. INAIVIE			11: 40
	2040 Gayago Poa-	(area code & no.)	(list)
GEL Laboratories LLC	2040 Savage Road Charleston SC 29407	(area code & no.)	Biological Oxygen Demand, General Chemistry
			Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile
GEL Laboratories LLC New Mexico Water Testing	Charleston SC 29407	(843) 556-8171	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds
GEL Laboratories LLC New Mexico Water Testing Laboratory, Inc.	Charleston SC 29407 401 North Coronado Ave Espanola, NM 87532 3306 Kitty Hawk Road Suite 120	(843) 556-8171 (505) 929-4545	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds
GEL Laboratories LLC New Mexico Water Testing Laboratory, Inc.	Charleston SC 29407 401 North Coronado Ave Espanola, NM 87532 3306 Kitty Hawk Road Suite 120	(843) 556-8171 (505) 929-4545	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds E.Coli
New Mexico Water Testing Laboratory, Inc. Cape Fear Analytical LLC IX. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather and directly responsible for gathering the lie	Charleston SC 29407 401 North Coronado Ave Espanola, NM 87532 3306 Kitty Hawk Road Suite 120 Wilmington, NC 28405	(843) 556-8171 (505) 929-4545 (910) 795-0421 (direction or supervision in accordal inquiry of the person or persons with my knowledge and belief, true, accidations and selection of the person or persons with the person or person with the person or persons with the person or person or person or person with the person or per	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds E.Coli TCDD (dioxin)
New Mexico Water Testing Laboratory, Inc. Cape Fear Analytical LLC IX. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather and directly responsible for gathering the lie	Charleston SC 29407 401 North Coronado Ave Espanola, NM 87532 3306 Kitty Hawk Road Suite 120 Wilmington, NC 28405 document and all attachments were prepared under my and evaluate the information submitted. Based on my information, the information submitted is, to the best of false information, including the possibility of fine and in	(843) 556-8171 (505) 929-4545 (910) 795-0421 (direction or supervision in accordal inquiry of the person or persons with my knowledge and belief, true, accidations and selection of the person or persons with the person or person with the person or persons with the person or person or person or person with the person or per	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds E.Coli TCDD (dioxin) TCDD (dioxin)
New Mexico Water Testing Laboratory, Inc. Cape Fear Analytical LLC IX. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather and directly responsible for gathering the live are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or p.	Charleston SC 29407 401 North Coronado Ave Espanola, NM 87532 3306 Kitty Hawk Road Suite 120 Wilmington, NC 28405 document and all attachments were prepared under my and evaluate the information submitted. Based on my information, the information submitted is, to the best of false information, including the possibility of fine and in	(843) 556-8171 (505) 929-4545 (910) 795-0421 (direction or supervision in accordatinguiry of the person or persons with which with the person of the person or persons with the person of the person or persons with the person of the person or persons with the person of the person of the person or persons with the person of the person or persons with the person of the person of the person or persons with the person of the	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds E.Coli TCDD (dioxin) TCDD (dioxin)
New Mexico Water Testing Laboratory, Inc. Cape Fear Analytical LLC IX. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather and directly responsible for gathering the liare significant penalties for submitting A. NAME & OFFICIAL TITLE (type or p.	Charleston SC 29407 401 North Coronado Ave Espanola, NM 87532 3306 Kitty Hawk Road Suite 120 Wilmington, NC 28405 document and all attachments were prepared under my and evaluate the information submitted. Based on my information, the information submitted is, to the best of false information, including the possibility of fine and in truit)	(910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421 (910) 795-0421	Biological Oxygen Demand, General Chemistry Pesticides, Polychlorinated Biphenyls, Radiochemistry, Semi-volatile Organic Compounds Total Metals, Total Suspended Solids, Volatile Organic Compounds E.Coli TCDD (dioxin) TCDD (dioxin)

VII. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to believe	that any biological test for acute or cl	hronic toxicity has been made on any of your o	lischarges or on a receiving water in
relation to your discharge within the last 3 years? YES (identify the test(s) and describ		NO (go to Section VIII)	
EVIDA	DAOFFOD	CIONIATURE	NILAZ
EXIRA	A PAGE FOR	SIGNATURE O	NLY
1 ·			
VIII, CONTRACT ANALYSIS INFORMATION			
		outhing firms?	
Were any of the analyses reported in Item V perfo			
☐ YES (list the name, address, and tell each such laboratory or firm be	ephone number of, and pollutants analyze	ed by, NO (go to Section IX)	
A. NAME	B. ADDRESS	C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAIVIE	B. ADDRESS	(area code & no.)	(list)
4			
		11	
		- 11	
		6111	
IX. CERTIFICATION			
I certify under penalty of law that this document			
qualified personnel properly gather and evalual directly responsible for gathering the information			
are significant penalties for submitting false infor	mation, including the possibility of fine		
A. NAME & OFFICIAL TITLE (type or print)		B. PHONE NO. (area code & no.)	
William S. Goodryn, Manager Los	Alamos Field Office	(505) 667-5105	
C. SIGNATURE		D. DATE SIGNED	
III Vil and day		3-25-19	
1 Ville To			

EPA Form 3510-2C (8-90)

PAGE 4 of 4

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

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 05A055

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.

				2. EFFLU	ENT			3. UN (specify if			(optional)	
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availe		c, LONG TERM AVR (if available		1.110.05	GONOEN		a LONG T AVERAGE		L NO OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	5.98	1.1e-1					1	mg/L	lbs	NA	NA	NA
b. Chemical Oxygen Demand (COD)	99.0	1.75					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	1.50	2.65e-2	(D)				1	mg/L	lbs	NA	NA	NA
d, Total Suspended Solids (TSS)	<0.57	<1e+2	(E)				1	mg/L	lbs	NA	NA	NA
e. Ammonia (as N)	2.27	4.02e-2	(0)				1	mg/L	lbs	NA	NA	NA
f, Flow	VALUE 0,0021	(A)	VALUE 0.0021	(A)	VALUE 0.0003 (A)	est.	MGD	NA	VALUE NA		NA
g Temperature (winter)	VALUE 14.5	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 23.7	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA
i. pH	MINIMUM 6.5 (C)	MAXIMUM 8.7 (C)	MINIMUM NA	MAXIMUM NA		-110	NA	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.

	2. MA	RK "X"			3.	EFFLUENT				4. UNIT	rs	5. INT	AKE (option	al)
1. POLLUTANT AND	а	b	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I (if availal	The second secon	c. LONG TERM AV	TO DESCRIPTION OF THE PARTY OF	10000			a. LONG TERM A VALUE		
CAS NO. (if available)	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a Bromide (24959-67-9)	X	7 7 1	5.76	0.1					1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		0.02	3.5e-04	(I)				1	mg/L	lbs	NA	NA	NA
c. Color		X	<5	NA	(E)				1	PCU	NA	NA	NA	NA
d. Fecal Coliform		X	<1	NA	(E,K)			150	1	cfu/100m	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		2.87	0.051					1.	mg/L	1bs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		29.5	0.522					1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 390010515
ITEM V-B CONTINUED FROM FRONT

		RK "X"				EFFLUENT				4. UNI	TS	5. INT.	AKE (opnon	ul)
1. POLLUTANT AND CAS NO.	a. BELIEVED	ь	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM AV (if availab		d. NO. OF	- CONGEN		a LONG TI AVERAGE V	ERM	1
(if available)	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		3.88	0.69					1	mg/L	lbs	NA	NA	NA
h. Oil and Grease	X		<1.59	<0.028	(E,N)				1	mg/L	lbs	NA	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		5 : 65	0.1					1	mg/L	lbs	NA	NA	NA
j. Radioactivity														
(1) Alpha, Total		X	0	NA	(E)				1.	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		85.9	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		<0.1819	NA	(E,N)	Ŷ			1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total	X		<0.0759	NA	(E,N)				1	pCi/L	Na	NA	NA	NA
k. Sulfate (as SO ₂) (14808-79-8)	X		987	17.46					1	mg/L	lbs	NA	NA	NA
I, Sulfide (as S)		X	<0.033	<6e-04	(E)				1	mg/L	lbs	NA	NA.	NA
m. Sulfite (us SO ₃) (14265-45-3)	X		O	0					1	mg/L	lbs	NA	NA	NA
n. Surfactants		X	<0.017	<3e-04	(E,F)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)		X	<19.3	<0.341	(H)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		1.47	0.026	(D,I)				1	ug/L	1bs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		1510	26.7					1	ug/L	1bs	NA	NA	NA
r. Cobalt, Total (7440-48-4)		X	<0.3	<5.3e-3	(G)				1	ug/L	lbs	NA	NA	Na
s. Iron, Total (7439-89-6)	X		66.7	1.18	(D)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)		X	<10	<0.177	(E)				1	ug/L	lbs	NA	NA	NA
u Molybdenum, Total (7439-98-7)	X		34.7	0.614					1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)		X	<1	<0.018	(E)				1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)		X	<1	<0.018	(E)				1	ug/L	lbs	NA	NA	NA
x. Titanium, Total (7440-32-6)		X	<2	<0.035	(E)				1	ug/L	1bs	NA	NA	NA

7 of 15

EPA I.D. NUMBER (copy from Item I of Form I) OUTFALL NUMBER
NM0890010515 05A055

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

3 - 1 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		2 MARK "X	"			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	17)
1 POLLUTANT AND	a	h	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c LONG TERM VALUE (if ave		1,10,05	CONOCH		a. LONG T AVERAGE V		L NO 0
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b NO OF
METALS, CYANIDE	, AND TO	TAL PHENO	DLS												
1M. Antimony, Total (7440-36-0)		X		22.1	0.039	(1)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		22.9	0.405	(D)				1	ug/L	1bs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)		X		0.2	0.0035	(1)				1	ug/L	1bs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)		-	X	<0.3	<0.005	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)		X		1.56	0.0276	(D,I)				1	ug/L	lbs	NA	NA	NA
6M. Copper, Total (7440-50-8)		X		11.2	0.1982					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)		X		3.49	0.0617	(D)				1	ug/L	lbs	N.A.	NA	NA
8M. Mercury, Total (7439-97-6)		X		0.085	0.0015	(D)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		5.26	0.0931					1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		X		9.25	0.1637	(D)				1	ug/L	lbs	NA	NA	AN
11M. Silver, Total (7440-22-4)			X	<0.3	<0.005	(G)				1	ug/L	1bs	NA	NA	NA
12M. Thallium Total (7440-28-0)		1	X	<0.6	<0.011	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		49.8	0.8811					1	ug/L	1bs	NA	NA	NA
14M. Cyanide, Total (57-12-5)			X	<1.67	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
15M, Phenols, Total		X		<1.67	<3e-05	(E,N)				1	ug/L	lbs	NA	NA	NA
DIOXIN															
2,3,7,8-Tetra- chtorodibenzo-P-			V	DESCRIBE RESU	LTS Analys	ical Result is a	I pg/L (le	sa than the MDL).	Howver,	the MDL is	greater than	the EPA MOI	OF IN pg/L [H]		

EPA Form 3510-2C (8-90)

PAGE V-3

CONTINUE ON REVERSE

Dioxin (1764-01-6)

CONTRACTOR !		2. MARK "X	ni .			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (option	al)
1. POLLUTANT AND	a.	b.	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 ((if availat		c. LONG TERM VALUE (if ava	nlable)	1 10 05	GONOEN		a. LONG T AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<3e-05	(G)				1	ug/L	1bs	NA	NA	NA
2V, Acrylonitrile (107-13-1)			X	<1.67	<3e-50	(G)				1	ug/L	lbs	NA	NA	NA
3V. Benzene (71-43-2)			X	<0,33	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
4V. Bis (Chloro- methyl) Ether (542-88-1)						(J)									1101
5V. Bromoform (75-25-2)			X	<0.33	<6e-06	(G)				1	ug/L	1bs	NA	NA	NA
6V. Carbon Tetrachloride (56-23-5)		f.= 1	X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<3e-05	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloraform (67-66-3)			X	<0.333	<6e-06	(E,O)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(J)									
14V 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<6e-06	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<6e-06	(G)				1	ug/L	1bs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<6e-06	(G)				1	ug/L	1bs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<6e-06	(G,L)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<6e-06	(E)				1	ug/L	1bs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-4

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-4

9 6 20 00 20 00	- 3	2. MARK "X					FFLUENT				4. UN	ITS		KE (option	11)
1. POLLUTANT AND	8,	b	C,	a. MAXIMUM DA	JLY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if av		d. NO. OF	a, CONCEN-		a LONG T AVERAGE V		b. NO. O
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATIL	E COMPO	JNDS (con	tinued)											
22V Methylene Chloride (75-09-2)			X	<1.67	<3e-05	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
25V Toluene (108-88-3)			X	<0.333	<6e-06	(G, O)				1	ug/L	1bs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
27V_1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<6e-06	(E)	1			1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)	1					(J)				1					141
31V. Vinyl Chloride (75-01-4)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- ACID CO	MPOUNDS													V-107 II
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<5e-05	(G)				1	ug/L	1bs	NA	NA.	NA
2A, 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
4A, 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<5e-05	(G)				1	ug/L	1bs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<9e-05	(G)				1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<5e-05	(E)				i	ug/L	lbs	NA	NA	NA
BA, P-Chloro-M- Cresol (59-50-7)			X	<3.00	<5e-05	(E)				i	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<5e-05	(G)			11 22 =	1	ug/L	1bs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- ohenol (88-05-2)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	ŇΑ	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Los Alamos nal Laboratory
EPA ID No. 390010515
CONTINUED FROM THE FRONT

de Landones Victor		2. MARK "X	2				FFLUENT				4. UN	ITS		KE (options	(I)
1 POLLUTANT AND CAS NUMBER	a	b.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		VALUE (if and		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
3B. Anthracene (120-12-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.90	<7e-05	(G)				1	ug/L	lbs	NA	NA	NA
5B. Benzo (a) Anthracene (56-55-3)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (<i>ghi</i>) Perylene (191-24-2)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
10B. Bis (2-Chlaro- ethoxy) Methane (111-91-1)		1	×	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA.
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			×	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bjs (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<3e-05	(G)				1	ug/L	İbs	NĀ	NA	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
14B, 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
16B, 2-Chloro- naphthalene (91-58-7)			X	<0.410	<7e-06	(G)				î.	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.00	<5e-05	(E)				1	ug/L	lbs	NA	NA	NA
18B. Chrysene (218-01-9)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
19B. Dibenzo (a,h) Anthracene (53-70-3)			X	<0.300	<5e-06	(G)			1	1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	ŅA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<6e-06	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

Los Alamos National Laboratory EPA ID No. NM0890010515 CONTINUED FROM PAGE V-6

A CONTRACTOR		2. MARK "X	"			3. E	FFLUENT				4. UN	ITS		KE (option	7/)
1. POLLUTANT AND	а	b.	c.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availab		c. LONG TERN VALUE (if ava		1 110 05	covery		a LONG T AVERAGE V	ERM ALUE	
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	CONCENTRATION	(2) MASS	b NO. OI
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichlcro- benzene (106-46-7)			X	<0.333	<6e-06	(G)				1	ug/L	1bs	NA	NA	NA
23B, 3,3-Dichlcro- benzidine (91-94-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- taluene (121-14-2)			X	<3.00	<5e-05	(G,O)		100		1	ug/L	lbs	NA	NA	NA
289. 2,6-Dinitro- toluene (605-20-2)			X	<3.00	<5e-05	(E,O)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (<i>as Azo-</i> benzene) (122-66-7)			X	<3.0	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.300	<5e-06	(G)				1	ug/L	1bs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.300	<5e-06	(G)				1	ug/L	1bs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- outadiene (87-68-3)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
35B, Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
38B, Isopharone 78-59-1)			X	<3.50	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
39B. Naphthalene 91-20-3)			X	<0.300	<5e-06	(E)				1	ug/L	1bs	NA	NA	NA
10B, Nitrobenzene 98-95-3)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
11B. N-Nitro- sodimethylamine 62-75-9)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
12B. N-Nitrosodi- N-Propylamine 621-64-7)			X	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

utfall 05A055 March 2019

0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 3	2. MARK "X	il .				FFLUENT				4. UN	ITS	5. INTA	KE (optiona	d)
1. POLLUTANT AND CAS NUMBER	a.	ь	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 E (if availab		c. LONG TERM VALUE (if ave		d. NO. OF	a. CONCEN-		a LONG TH AVERAGE V		L NO 0
(if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/NI	EUTRAL CO	DMPOUND	S (continued)											
43B. N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<5E-05	(G,M)				ì	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.300	<5e-06	(E)				1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.300	<5e-06	(G)				1	ug/L	lbs	NA	NA	NA
46B: 1,2,4-Tri- chlorobenzene (120-82-1)			×	<3.00	<5e-05	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	V - PESTIC	IDES													
1P_Aldrin (309-00-2)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
2P ₋ α-BHC (319-84-6)			X	<0.0070	<1e-07	(G)				1	ug/L	1bs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)			X	<0.0070	<1e-07	(E)) = 1	í	ug/L	1bs	NA	NA	NA
6P_Chlordane (57-74-9)			X	<0.0805	<1e-60	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.0105	<2e-07	(G)				1	ug/L	1bs	NA	NA	NA
8P_4,4'-DDE (72-55-9)			X	<0.0105	<2e-07	(G)			J	1	ug/L	lbs	NA	NA	NA
9P_4,4'-DDD (72-54-8)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.0105	<2e-07	(G)				1	ug/L	1bs	NA	NA	NA
11P _a α-Enosulfan (115-29-7)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
12P. β-Endosulfan (115-29-7)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0105	<2e-07	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)			X	<0.0105	<2e-07	(G)				Ĩ.	ug/L	lbs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-8

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

OUTFALL NUMBER

NM0 8 9 0 0 1 0 5 15

0 5 A 0 5 5

CONTINUED FROM PAGE V-8

T. E. S. Line	1	MARK "X"	10			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	11)
1. POLLUTANT AND	a	b.	C,	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(if availab		c. LONG TERM VALUE (if ava		1 410 05	20110511		a. LONG TI AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO, OF ANALYSES
GC/MS FRACTION	- PESTICI	DES (contin	ued)												
17P, Heptachlor Epoxide (1024-57-3)			X	<0.0070	<1e-07	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0732	<1e-06	(G)			F9	1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
23P. PCB-1260 (11096-82-5)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
24P, PCB-1016 (12674-11-2)			X	<0.0732	<1e-06	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.1580	<3e-06	(G)		1		1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 05A055

A	The flow rates provided are estimated based upon tank capacity and a maximum flow rate to the outfall of 3 gpm.
В	The temperatures provided are based upon historical data provided in the 2004 NPDES Permit Application.
С	The pH range provided are based upon historical data provided in the 2004 NPDES Permit Application and field parameter data collected in August of 2019.
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.
Н	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.
Ĭ.	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.
м	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).
Ŋ	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.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.

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 Consolidated Permits Program

I. OUTFALL	LOCATION
------------	----------

OUTFALL NUMBER	- 1	B. LATITUDE		C. LONGITUDE			Section of Marian Const.
(list)	1 DEG	2 MIN	3 SEC	1 DEG	2. MIN.	3 SEC	D. RECEIVING WATER (name)
13S	35.00	51.00	8.00	106.00	16.00	33.00	Canada del Buey, Ephemeral Reach in
							Water Quality Segment 20.6.128 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. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATMEN	NT	
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST COL TABLE	ES FROM 2C-1
13S	Sanitary Wastewater (SWWS) System	228,908 GPD	Grit Removal	i	M
	Treated Effluent		Mixing	1	0
			Screening	1	T
			Sedimentation (settling)	- 1	(I
	2		Dechlorination	3	E
			Disinfection (chlorine)	2	E)
1			Activated Sludge	g	A
			Pre-Aeration	3	E
		(sludge)	Composting	5	G
		(sludge)	Drying Beds	5	ĬI.
		(sludge)	Landfill	ŝ	Q
1					
7					
					-

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

. = Complete me jouton	ing table)	the discharges described in	NO (go to Sec					
		3, F	REQUENCY			4. FLOW		
3.02				o ELOWIDA	TE (In man)			
		(specify	PER YEAR	1. LONG TERM AVERAGE	2, MAXIMUM DAILY		1	C. DURATION (in days)
Sanitary Wastewat Treated Effluent	er System	(SWWS) 7	12	0.0229 MGD	0.418 MGD	228,808 GALLONS	418,000 GALLONS	365
luent guideline limitation	The state of the s	by EPA under Section 304			ur facility?			
		ine expressed in terms of p			ration)?			
ered "yes" to Item III-B,	list the quant				production, ex	pressed in the	terms and ur	its used in the
	dicate the affe	ected outfalls.						
	A TOTAL CONTRACTOR OF	c OPER		MATERIAL E	C			
PER DAY b. UNITS	OF MEASU	RE C. OPEN	(specify)	, IVIATERIAL, E	O.	(ist outfall num	ners)
ow required by any Fed equipment or practices o ditions, administrative or	r any other er enforcement	vironmental programs which	ch may affect the di iance schedule lett	ischarges descri ers, stipulations	bed in this app	olication? This i	ncludes, but i	s not limited to
YES (complete the follo		TEATED OUTEAU S	NO (go to ne	em IV-B)	A Joseph	Ti	EINIAL COME	I IANCE DATE
ATION OF COMPITION	/ AF	ECTED OUTFALLS	3. BRIEF	DESCRIPTION	OF PROJEC	T 4.	FINAL COMP	LIMINGE DATE
ATION OF CONDITION, EEMENT, ETC.							DEDIURES !	271100000
	a. NO.	b, SOURCE OF DISCHARGE	NA			a. NA	REQUIRED	b. PROJECTED
	Sanitary Wastewat Treated Effluent Juent guideline limitation YES (complete Item III-I tations in the applicable of YES (complete Item III-I wered "yes" to Item III-B, effluent guideline, and in YPER DAY D. UNITS NA MENTS OW required by any Fedequipment or practices of ditions, administrative or	Sanitary Wastewater System Treated Effluent DON Juent guideline limitation promulgated by YES (complete Item III-B) tations in the applicable effluent guidel by YES (complete Item III-C) wered "yes" to Item III-B, list the quant effluent guideline, and indicate the affer 1. AVI Y PER DAY b. UNITS OF MEASUR NA MENTS Tow required by any Federal, State of equipment or practices or any other enditions, administrative or enforcement.	2. OPERATION(s) (Isst) Sanitary Wastewater System (SWWS) Treated Effluent ON Juent guideline limitation promulgated by EPA under Section 304 YES (complete Item III-B) attains in the applicable effluent guideline expressed in terms of plations in the applicable effluent guideline expressed in terms of plating yes to Item III-C) Vered "yes" to Item III-B, list the quantity which represents an acceffluent guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTI Y PER DAY b. UNITS OF MEASURE NA NA MENTS To Per Day NA MENTS To Per Day NA MENTS To Per Day Description of the programs which additions, administrative or enforcement orders, enforcement complete in the programs which additions, administrative or enforcement orders, enforcement complete in the programs which additions, administrative or enforcement orders, enforcement complete in the programs which additions, administrative or enforcement orders, enforcement complete in the programs which additions, administrative or enforcement orders, enforcement complete in the programs which are programs which additions, administrative or enforcement orders, enforcement complete in the programs which are programs	CONTRIBUTING FLOW (Inst) Sanitary Wastewater System (SWWS) Treated Effluent Interest guideline limitation promulgated by EPA under Section 304 of the Clean Water YES (complete Item III-B) Altaions in the applicable effluent guideline expressed in terms of production (or other YES (complete Item III-C) YES (complete Item III-C) AND (go to Section 304 of the Clean Water YES (complete Item III-C) YES (complete Item III-C) AND (go to Section 304 of the Clean Water YES (complete Item III-C) YES (complete Item III-C) AND NO (go to Section 304 of the Clean Water NO (go to Section 304 of the Clean Water NO (go to Section 305 of Section 304 of the Clean Water YES (complete Item III-C) AND NO (go to Section 304 of the Clean Water NO (go to Section 305 of Section 305 of Section 306	2. OPERATION(s) CONTRIBUTING FLOW (list) Sanitary Wastewater System (SWWS) Treated Effluent ON Juent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to you you contain the applicable effluent guideline expressed in terms of production (or other measure of ope YES (complete Item III-B). Justices in the applicable effluent guideline expressed in terms of production (or other measure of ope YeS (complete Item III-C) VES (complete Item III-C) Vered 'yes' to Item III-B, list the quantity which represents an actual measurement of your level of effluent guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION Y PER DAY D. UNITS OF MEASURE C. OPERATION, PRODUCT, MATERIAL, ET (specify) NA MENTS OW required by any Federal, State or local authority to meet any implementation schedule for gequipment or practices or any other environmental programs which may affect the discharges describitions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, diffining schedule letters, stipulations, administrative or enforcement orders, enforcement compliance schedule letters, stipulations,	a. DAYS PER WEEK (Journal of Contributing Flow (Journal of Contrib	a. DAYS PER WEEK (Service) CONTRIBUTING FLOW (furt) Sanitary Wastewater System (SWWS) Treated Effluent 1. LONG TERM (specify marriage) No (go to Section IV) Testions in the applicable effluent guideline expressed in terms of production (or other measure of operation)? YES (complete Item III-B) AVERAGE DAILY Which represents an actual measurement of your level of production, expressed in the effluent guideline, and indicate the affected outfalls. 1. AVERAGE DAILY PRODUCTION Y PER DAY NA MENTS OVERATION(s) LONG TERM (specify marriage) 1. LONG TERM (specify marriage) 2. LONG (specify marriage) 2. LONG (specify marriage) 3. LONG TERM (spe	2. OPERATION(s) CONTRIBUTING FLOW B. DAYS PER (seed):

EPA Form 3510-2C (8-90) CONTINUE ON PAGE 3 EPA I.D. NUMBER (copy from Item 1 of Form 1)

CONTINUED FROM PAGE 2

NM0890010515

	nt you list, briefly describe the reasons you believe it	to be present and report any analytical of	elieve is discharged or may be dischar data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2, SOURCE
iline (2C-3) rbon Disulfide (2C-3) esol (2C-3) rontium (2C-3) yrene (2C-3) anium (2C-3) nadium (2C-3)	Sanitary Wastewater System (SWWS) Effluent. A review of the waste stream profiles associated with the water treated at the SWWS identified the 7 Form 2C-3 pollutants listed in Section V.D.1.		
OTENTIAL DISCHARGES NOT or pollutant listed in Item V-C a su	bstance or a component of a substance which you o	currently use or manufacture as an intern (go to Item VI-B)	nediate or final product or byproduct?

YES (identify the test(s) an	3 years? d describe their purposes below)	NO (go to Section VIII)	
I. CONTRACT ANALYSIS INFORMA			
YES (list the name, addres	m V performed by a contract laboratory or consulting firm? is, and telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED
A. NAME			
A NAME	B. ADDRESS	(area code & no.)	(list) OC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD,
A NAME EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120,	(area code & no.) (843) 556-8171	OC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
A. NAME EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. C. CERTIFICATION certify under penalty of law that this of qualified personnel properly gather are significant penalties for submitting to an expension of the person of the person of the penalties for submitting to an expension of the penalties for submitting to the penalties for submi	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ocument and all attachments were prepared under my dired evaluate the information submitted. Based on my inquision, the information submitted is, to the best of my k false information, including the possibility of fine and imprise tint)	(grea code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 (505) 929-4545 ction or supervision in accordary of the person or persons we nowledge and belief, true, accument for knowing violations. B. PHONE NO. (area code & no.)	OC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli Dioxins and Furans E-coli
A. NAME EL Laboratories LLC ape Fear Analytical LLC ew Mexico Water Testing aboratory Inc. C. CERTIFICATION I certify under penalty of law that this of qualified personnel properly gather are significant penalties for submitting the incre significant penalties for submitting to A. NAME & OFFICIAL TITLE (type or present the content of the conten	B. ADDRESS 2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405 401 North Coronado Ave, Espanola, NM 87532 ocument and all attachments were prepared under my dire devaluate the information submitted. Based on my inquisiformation, the information submitted is, to the best of my k false information, including the possibility of fine and imprise int) see Laboratory Director ESHQSS	(area code & no.) (843) 556-8171 (910) 795-0421 (505) 929-4545 ction or supervision in accordary of the person or persons we nowledge and belief, true, accument for knowing violations.	OC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS Dioxins and Furans E-Coli Dioxins and Furans E-coli

CONTINUED FROM THE FRONT 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, NO (go to Section IX) each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED A. NAME B. ADDRESS (area code & no.) (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 & OFFIGIAL TITLE (type or print) B. PHONE NO. (area code & no.) William S odrum, Manager Los Alamos Field Office (505) 667-5105 D. DATE SIGNED

EPA Form 3510-2C (8-90)

PAGE 4 of 4

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.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO. 138

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.

				2. EFFLU	ENT			3. UN (specify i)			4. INTAKE (optional)	
	a. MAXIMUM DA	ALLY VALUE	b. MAXIMUM 30 (if avail		c, LONG TERM AVR (if available		1 10 05	CONOCH		a. LONG T AVERAGE		L NO OF
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	1.59	5.546	(D)				1	mg/L	lbs	NA	NA	NA.
b. Chemical Oxygen Demand (COD)	67.5	235.5					1	mg/L	lbs	NA	NA	NA
c. Total Organic Carbon (TOC)	6.04	21.07					i	mg/L	lbs	NA	NA	NA
d. Total Suspended Solids (7SS)	5.08	17.72					1	mg/L	lbs	NA	NA	NA
e. Ammonía (as N)	0.215	0.75	(P)				1	mg/L	lbs	NA	NA	NA
f. Flow	VALUE 0.418	(A)	VALUE 0.2529	(A)	VALUE 0.229 (2	<u>(</u>)	365	MGD	NA	VALUE NA		NA
g. Temperature (winter)	VALUE 8.0 (в)	VALUE NA		VALUE NA		0	°C		VALUE NA		NA
h. Temperature (summer)	VALUE 25.5	(B)	VALUE NA	2	VALUE NA		0	°C		VALUE NA		NA
i. pH	MINIMUM 7.5 (C)	MAXIMUM 7.7 (C)	MINIMUM 7.5 (C)	MAXIMUM 7.7 (C)			2	STANDARD	UNITS			100

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 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

	2. MA	RK "X"			3,	EFFLUENT				4. UNI	rs	5, INT	AKE (option	al)
1. POLLUTANT AND	a.	b.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I		c. LONG TERM AV (if availar		27/27/201			a. LONG TERM A VALUE	The second second	CALAZ
CAS NO (if available)	PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		0.126	0.4395	(D)				1	mg/L	lbs	NA	NA	NA
b. Chlorine, Total Residual	X		1.62 (C,P)	5.6512	1.62 (C,P)	3.419	0.985(C,P)	1.881	2	mg/L	lbs	NA	NA	NA
c. Color	X		10	NA					1	PCU	NA	NA	NA	NA
d. Fecal Coliform	X		2	(L)					î	#/100mL	NA	NA	NA	NA
e. Fluoride (16984-48-8)	X		0.348	1.214					1	mg/L	lbs	NA	NA	NA
f Nitrate-Nitrite (as N)	X		0.0498	0.1737	(D)				1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-1 CONTINUE ON REVERSE

Cutfall 13S

__ March 2019

Los Alamos (nal Laboratory EPA ID No. No. 0890010515 ITEM V-B CONTINUED FROM FRONT

	2. MA	RK "X"	-			EFFLUENT				4. UNI	TS	5. INT.	AKE (option	al)
AND CAS NO.	a. BELIEVED	b, BELIEVED	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (If availa		c. LONG TERM AV (if availab		d. NO. OF	a. CONCEN-	- 1	a. LONG TI AVERAGE V		. 110.05
(if available)	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
j. Nitrogen, Fotal Organic (as V)	X		0.991	3.457	(P)				1	mg/L	1bs	NA	NA	NA
ı. Oil and Grease		X	<1.49	<5.198	(E)				i	mg/L	lbs	NA	NA	NA
Phosphorus as P), Total 7723-14-0)	X		3.12	10.884	(P)				1	mg/L	lbs	NA	NA	NA
Radioactivity														
(1) Alpha, Total	X	- 1	<1.16		(0)			1	1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		13.2	NA					1	pCi/L	NA	NA	NA	NA
(3) Radium, Total		X	<0.487	NA					1	pCi/L	NA	NA	NA	NA
(4) Radium 226, Total		X	<0.31	NA	4				1	pCi/L	NA	NA	NA	NA
k. Sulfate (as S(2)) (14808-79-8)	×		19.3	67.326					1	mg/L	lbs	NA	NA	NA
Sulfide (as:5)		X	<0.033	<0.1151				1	1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	×		0	0	(P)				1	mg/L	lbs	NA	NA	NA
n, Surfactants	X		0.0389	0.1357	(D)				1	mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)	X		21.7	0.0757	(D)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		21.8	0.0760	(1)				1	ug/L	lbs	NA	NA	NA
g. Boron, Total (7440-42-8)	X		51.9	0.1810	(1)				1	ug/L	1bs	NA	NA	NA
Cobalt, Total 7440-48-4)	X		<0.3	<0.0010	(G, O)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		49.7	0.1734	(D)			1	1	ug/L	lbs	NA	ÑΑ	NA
. Magnesium, Total (7439-95-4)	×		6570	22.92					1	ug/L	1bs	NA	NA	NA
J. Molybdenum, Fotal 7439-98-7)	X		1.85	0.0065	(I)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Fotal 7439-96-5)	X		31.8	0.1109					1	ug/L	lbs	NA	NA	NA
v. Tin, Total 7440-31-5)		X	<1	<0.0035	(E)				1	ug/L	lbs	NA	NA	NA
k, Titanium, Total (7440-32-6)	X		<2	<0.0070	(E,O)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-2 CONTINUE ON PAGE V-3 EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER
NM0890010515 13S

CONTINUED FROM PAGE 3 OF FORM 2-C.

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater, Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

Service Control		MARK "X				3. E	FFLUENT				4 UN	ITS	5. INTA	KE (options	af)
1. POLLUTANT AND	a	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERM VALUE (if aw			aguarti		a. LONG T AVERAGE V		1. 10. 01
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF
METALS, CYANIDI	E, AND TOT	TAL PHENO	DLS												
1M. Antimony, Total (7440-36-0)			X	<1	<4e-03	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)		X		3	0.0105	(D)				1	ug/L	lbs	NA	NA.	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<7e-04	(G)				1	ug/L	lbs	NA	NA	NA
4M, Cadmium, Total (7440-43-9)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA.	NA	NA
5M, Chromium, Total (7440-47-3)		X		<3	<0.011	(G,O)				1	ug/L	lbs	NA	NA	NA
6M, Copper, Total (7440-50-8)		X		1.2	4e-03					I	ug/L	lbs	NA	NA	NA
7M. Lead, Total 7439-92-1)			X	<0.5	<2e-03	(G)				1	ug/L	lbs	NA	NA	NA
BM Mercury, Total 7439-97-6)		X		<0.067	<2e-04	(H,O)			7-90	1	ug/L	1bs	NA	NA	NA
BM. Nickel, Total 7440-02-0)		X		<0.6	<2e-03	(H,O)				ī	ug/L	lbs	NA	NA	NA
0M. Selenium Total (7782-49-2)		X		<2	<7e-03	(G,O)				1	ug/L	lbs	NA	NA	NA
11M, Silver, Total 7440-22-4)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
2M, Thallium, otal (7440-28-0)			X	<0.6	<2e-03	(H)				à	ug/L	lbs	NA	NA	NA
3M, Zinc, Total 7440-66-6)		X		48.5	0.1692					i	ug/L	lbs	NA	NA	NA
4M. Cyanide, otal (57-12-5)			X	<1.67	<6e-03	(G)				1	ug/L	1bs	NA	NA	NA
5M. Phenois, otal		X		2,21	0.0077	(D,P)				1	ug/L	lbs	NA	NA	NA
NIXOI						-									

2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6) DESCRIBE RESULTS Analytical Result = <11.3 pg/L (lower than the MDL) however, the MDL used is greater than EPA MQL of 1D pg/L

EPA Form 3510-2C (8-90) PAGE V-3 CONTINUE ON REVERSE

4 DOLLLITANT	- 1	2. MARK "X"					FFLUENT				4 UN	ITS		KE (optiona	11)
1. POLLUTANT AND CAS NUMBER	a TESTING	b. BELIEVED	c. BELIEVED	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 t (if availal		c. LONG TERM VALUE (if ave		4 NO OF	a CONCEN-		a LONG T AVERAGE V		b. NO. 0
(if available)	REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATIL	E COMPO	JNDS												
1V. Accrolein (107-02-8)			X	<1.67	<6e-03	(G)				1	ug/L	lbs	NA	NA	NA
2V. Acrylonitrile (107-13-1)			X	<1.67	<6e-03	(G)				1	ug/L	1bs	NA	NA	NA
3V. Benzene (71-43-2)		X		0.68	2e-03	(D,P)				1	ug/L	1bs	NA	NA	NA
4V, Bis (Chloro- methyl) Ether (542-88-1)						(J)									
5V. Bromoform (75-25-2)		X		4.46	2e-02	(I)				1	ug/L	lbs	NA	NA	NA
6V, Carbon Tetrachloride (56-23-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
7V. Chlorobenzene (108-90-7)			X	<0.333	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		25.2	9e-02	(I)				1	ug/L	lbs	NA	NA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X	<1.67	<0.006	(E)				1	ug/L	lbs	NA	NA	NA
11V. Chloroform (67-66-3)		X		20.2	7e-02	(P)				1	ug/L	lbs	NA	NA	NA
12V. Dichloro- bromomethane (75-27-4)		×		32.6	1e-01					1	ug/L	lbs	NA	NA	NA
13V, Dichloro- difluoromethane (75-71-8)						(J)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
15V. 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
17V, 1,2-Dichloro- propane (78-87-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichloro- propylene (542-75-6)			X	<0.333	<1e-03	(G, M)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)		X		<0.333	<1e-03	(G, P)				1	ug/L	lbs	NA	NA	NA
20V. Methyl Bromide (74-83-9)			X	<0.337	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
21V. Methyl Chloride (74-87-3)			X	<0.333	<1e-03	(E)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-4

CONTINUE ON PAGE V-5

CONTINUED FROM		2. MARK "X	ь			3. 8	FFLUENT				4. UN	ITS		KE (option	d)
1. POLLUTANT AND	a	ь.	c	a. MAXIMUM DA	NLY VALUE	b MAXIMUM 30 (if availa		c. LONG TERM VALUE (if ave		, NO. 05	CONOCH		a. LONG T AVERAGE \	/ALUE	b. NO. C
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS (con	tinued)											
22V. Methylene Chloride (75-09-2)			X	<1.67	<6e-03	(G)				1	ug/L	lbs	NA	NA	NA
23V. 1,1,2,2- Tetrachloroethane (79-34-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
24V. Tetrachloro- ethylene (127-18-4)			X	<0.333	<1e-03	(G)	100			1	ug/L	lbs	NA	NA	NA
25V. Toluene (108-88-3)		X		<0.333	<1e-03	(G, P)				1.	ug/L	1bs	NA	NA	NA
26V. 1,2-Trans- Dichloroethylene (156-60-5)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
27V. 1,1,1-Trichloro- ethane (71-55-6)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
28V. 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<1e-03	(E)				1	ug/L	1bs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
30V. Trichloro- fluoromethane (75-69-4)						(J)									
31V. Vinyl Chloride (75-01-4)			X	<0.333	<1e-03	(G)	1			1	ug/L	1bs	NA	NA	NA
GC/MS FRACTION	- ACID CC	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<1e-02	(G)				1	ug/L	1bs	NA	NA	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
3A, 2,4-Dimethyl- phenol (105-67-9)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
4A. 4,6-Dinitro-O- Cresol (534-52-1)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
5A. 2,4-Dinitro- phenol (51-28-5)			X	<5.00	<2e-02	(G)			4	1	ug/L	lbs	NA	NA	NA
6A. 2-Nitrophenol (88-75-5)			X	<3,00	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
7A. 4-Nitrophenol (100-02-7)			X	<3.00	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.00	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
9A. Pentachloro- phenol (87-86-5)			X	<3.00	<1e-02	(G)	1=1			1	ug/L	1bs	NA	NA	NA
10A. Phenol (108-95-2)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
11A. 2,4,6-Trichloro- phenol (88-05-2)			X	<3.00	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

Committee of the latest of the		2. MARK "X"				3. E	FFLUENT				4 UN	ITS	5. INTA	KE (options	ul)
1 POLLUTANT AND CAS NUMBER	a	b.	C.	a. MAXIMUM DA	AILY VALUE	b, MAXIMUM 30 I (if availab		c. LONG TERM VALUE (if ave		1.400.05	20110511		a, LONG T AVERAGE V		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE
GC/MS FRACTION	- BASE/NI	EUTRAL CO	MPOUND	S										1-1-7 (1).1-2	
1B. Acenaphthene (83-32-9)			X	< 0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (208-96-8)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
3B, Anthracene (120-12-7)			X	< 0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
4B. Benzidine (92-87-5)			X	<3.9	<1e-02	(G)			1	1	ug/L	lbs	NA	NA	NA
5B, Benzo (a) Anthracene (56-55-3)			X	E.0>	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
6B. Benzo (a) Pyrene (50-32-8)			X	<0.3	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (205-99-2)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
8B. Benzo (ghi) Perylene (191-24-2)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)		(III)	X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
10B, Bis (2-Chloro- ethoxy) Methane (111-91-1)			X	<3.0	<1e-02	(E)				i	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
12B. Bis (2- Chloroisopropyl) Ether (102-80-1)			X	<1.67	<0.006	(G)				1	ug/L	lbs	NA	NA.	NA
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)		X		6.54	2e-02	(I)				i	ug/L	lbs	NA	NA	NA
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<3.0	<1e-02	(E)				1	ug/L	1,bs	NA	NA	NA
15B. Butyl Benzyl Phthalate (85-68-7)	1		X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
16B. 2-Chloro- naphthalene (91-58-7)			X	<0.41	1E-03	(G)				1	ug/L	1bs	NA	NA	NA.
17B, 4-Chloro- phenyl Phenyl Ether (7005-72-3)			X	<3.0	<1e-02	(E)				1	ug/L	1bs	NA	NΑ	NA
18B. Chrysene (218-01-9)			X	E, 0>	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
19B. Dibenzo (a,h) Arithracene (53-70-3)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
20B. 1,2-Dichloro- benzene (95-50-1)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NĄ
21B. 1,3-Di-chloro- benzene (541-73-1)			X	<0.333	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA.

EPA Form 3510-2C (8-90)

PAGE V-6

CONTINUE ON PAGE V-7

Land Miles		2. MARK "X				3. E	FFLUENT				4. UN	ITS	5 INTA	KE (option	1/)
1. POLLUTANT AND	a	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if av		I NO OF	COMPEN		a LONG T AVERAGE \		, NO. 05
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL C	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
23B, 3,3-Dichloro- benzidine (91-94-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
248. Diethyl Phthalate (84-66-2)			X	<0.3	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	AN	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)	. 1		X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
28B. 2,6-Dinitro- toluene (606-20-2)			X	<3.0	<1e-02	(E)				1	ug/L	lbs	NA	NA	NA
29B. Di-N-Octyl Phtnalate (117-84-0)			X	<0.3	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
328. Fluorene (86-73-7)			X	<0.3	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	AN	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3,0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorone 78-59-1)			X	<3.5	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
398, Naphthalene 91-20-3)			X	<0.3	<1e-03	(E)			1	1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene 98-95-3)			X	<3.0	<1e-02	(G)		- 1		1	ug/L	lbs	NA	NA	NA
11B. N-Nitro- sodimethylamine 62-75-9)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
2B N-Nitrosodi- N-Propylamine 621-64-7)			X	<3.0	<1e-02	(G)				1	ug/L	1bs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

A DOLLUTANT	1	2. MARK "X"					FFLUENT		-		4. UN	TS		KE (optiona	()
1. POLLUTANT AND CAS NUMBER	a	b. BELIEVED	C C	a MAXIMUM DA		b. MAXIMUM 30 I		c. LONG TERM VALUE (if and		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	TESTING REQUIRED	PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	MPOUND												
43B N-Nitro- sodiphenylamine (86-30-6)			X	<3.0	<1e-02	(N)				ì	ug/L	lbs	NA	NA	NA
44B. Phenanthrene (85-01-8)			X	<0.3	<1e-03	(E)			1-53	1	ug/L	lbs	NA	NA	NA
45B. Pyrene (129-00-0)			X	<0.3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.0	<1e-02	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	- PESTIC	IDES													
1P. Aldrin (309-00-2)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
2P_α-BHC (319-84-6)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
3P. β-BHC (319-85-7)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
4P. γ-BHC (58-89-9)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
5P. δ-BHC (319-86-8)		X		0.0558	2e-04					1	ug/L	lbs	NA	NA	NA
6P. Chlordane (57-74-9)			X	<0.081	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
7P. 4,4'-DDT (50-29-3)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
8P. 4,4'-DDE (72-55-9)			X	<0.011	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
9P. 4,4'-DDD (72-54-8)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
10P. Dieldrin (60-57-1)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
11P. α-Enosulfan (115-29-7)			X	<0.007	<2e-05	(G)				Ĭ	ug/L	1bs	NA	NA	NA
12P_β-Endosulfan (115-29-7)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
13P. Endosulfan Sulfate (1031-07-8)			X	<0.011	<4e-05	(G)				1	ug/L	lbs	NA	NA	NA
14P. Endrin (72-20-8)	-		X	<0.011	<4e-05	(G)				1	ug/L	1bs	NA	NA	NA
15P. Endrin Aldehyde (7421-93-4)			X	<0.007	<2e-05	(G)				1	ug/L	1bs	NA	NA	NA
16P. Heptachlor (76-44-8)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-8

CONTINUE ON PAGE V-9

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

OUTFALL NUMBER

NM0890010515

13S

CONTINUED FROM PAGE V-8

	1	MARK "X				3. E	FFLUENT				4. UN	ITS	5. INTA	AKE (option	ul)
1. POLLUTANT AND	a	b,	C	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I		c. LONG TERM VALUE (if ava		1 110 05	20110511		a. LONG T AVERAGE V		L NO 05
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.007	<2e-05	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
21P. PCB-1232 (11141-16-5)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
22P. PCB-1248 (12672-29-6)		X		<0.0333	<1e-04	(G,K,P)				1	ug/L	lbs	NA	NA	NA
23P, PCB-1260 (11096-82-5)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
24P, PCB-1016 (12674-11-2)		X		<0.0333	<1e-04	(G, K, P)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.16	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

2019 NPDES Permit Reapplication - Footnotes for the Form 2C OUTFALL - 13S

A	Calculated using data collected between October 2017 and September 2018.
В	The temperatures provided are based upon historical data provided in the 2004 NPDES Permit Application.
С	The pH range and total residual chlorine are based upon field data collected in September 2018.
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.
Н	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.
1	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.
к	Results were obtained using the EPA Aroclor Method 608.3. PCBs are believed to be present in low concentrations based upon Waste Stream Profiles for wastewater treated at SWWS and sampling data collected by operations.
L	The E. Coli result is provided as an indicator for Fecal Coliform.
M	Result is for cis- and trans-1,3 dichloropropylene.
N	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).
o	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.
Р	Identified as a potential pollutant from one of the sources discharging to the outfall.

LA-UR-19-22215
Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application

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.

2C SEPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

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	E	B. LATITUDE		C,	LONGITUDE		A CALLANDOL AND AND CA
(list)	1. DEG.	2 MIN.	3, SEC,	1, DEG	2 MIN	3. SEC.	D. RECEIVING WATER (name)
051	35.00	51.00	54.00	106.00	17.00	54.00	Effluent Canyon, Tributary in Mortandad
							Canyon, Water Quality Segment
			1				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. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATMENT						
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CO TABLI					
051	Radioactive Liquid Waste Treatment	20,000 GPD (Batch)	Evaporation	1	F				
	Facility (RLWTF) Treated Effluent		Mixing	1	0				
	- 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	С				
)			Ion Exchange	2	J				
			Neutralization	2	к				
			Landfill	5	Q				
			Pressure Filtration	5	R				
			Vacuum Filtration	5	Ū				
		-							
100									
			+						

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)

PAGE 1 of 4

CONTINUE ON REVERSE

				3. FREQ	LIENCY			4 FLOW	4. FLOW		
			a DAY	'S PER	ZOLINGT			B. TOTAL	VOLUME	_	
4 0007540		2. OPERATION(s)	WE	EK	b. MONTHS	a FLOW RA		(specify w	ith units)	a DUDATIO	
1. OUTFALL NUMBER (/ist)		CONTRIBUTING FLOW (list)		ecify rage)	PER YEAR (specify average)	1 LONG TERM AVERAGE	2 MAXIMUM DAILY	1 LONG TERM AVERAGE	2 MAXIMUM DAILY	C. DURATION (In days)	
51		ve Liquid Waste Tre (RLWTF) Treated Ef(12	0.02 MGD	0.04 MQD	20,000 GALLONS	39,840 GALLONS	208	
I. PRODUCTION		Here Hadren transport for the dead to	- FRA - de Service de	204 -614	Ol Wa						
A. Does an eπi	YES (cample)	e limitation promulgated b te Item III-B)	y EPA under Section 3		NO (go to Set		ir facility?				
B. Are the limit	ations in the a	applicable effluent guideling	ne expressed in terms		uction (or other NO (go to Sea		ration)?				
C. If you answ	ered "yes" to I	Item III-B, list the quantit	y which represents an				production, ex	pressed in the	terms and uni	ts used in the	
applicable 6	emiuent guidelli	ine, and indicate the affect 1. AVE	RAGE DAILY PRODU	CTION	, -			0.45	FOTER OUT	FALL 00	
OLIANITIE	DCD DAY	b. UNITS OF MEASUR	c. OP	ERATIO		, MATERIAL, E	C.		FECTED OUT st outfall numb		
a. QUANTITY	(Sec. 1997 47)	NA	NA.		(specify)			ŊA			
IV. IMPROVEN A. Are you not reatment e	MENTS ow required by equipment or p ditions, adminis	Werento at the second	NA local authority to me	which ma	implementation	scharges descri ers, stipulations,	he construction	on, upgrading colication? This in	cludes, but is	of wastewate not limited to	
IV. IMPROVEM A. Are younge treatment congressions.	MENTS ow required by equipment or productions, administrations, administration of CO	oy any Federal, State or cractices or any other envistrative or enforcement of the following table)	NA local authority to me	which ma	implementation ay affect the die schedule letted NO (go to Ite	scharges descri ers, stipulations,	he construction bed in this appropriate court orders,	on, upgrading collication? This in and grant or loa	cludes, but is	not limited to	
IV. IMPROVEM A. Are you not reatment to permit conc.	MENTS ow required by equipment or p ditions, adminis YES (comple	oy any Federal, State or oractices or any other envistrative or enforcement of the following table) ONDITION, 2. AFFI	local authority to me vironmental programs virders, enforcement co	which ma	implementation ay affect the dise schedule lette NO (go to lite 3, BRIEF	scharges descri ers, stipulations, em IV-B)	he construction bed in this appropriate court orders,	on, upgrading of objection? This is and grant or load	ncludes, but is n conditions.	not limited to	

EPA Form 3510-2C (8-90) PAGE 2 of 4 CONTINUE ON PAGE 3

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

COL	NTINI	IFD	FROM	PAGE 2

NM0890010515

1. POLLUTANT	2. SOURCE	1, POLLUTANT	2. SOURCE
esol rontium anium nadium lene rconium	Identified on a Waste Stream Profile associated with the influent treated at the RLW Treatment Facility		
	6-		
POTENTIAL DISCHARGES NOT	COVERED BY ANALYSIS	East of the last o	
	ubstance or a component of a substance which you co	urrently use or manufacture as an inter	mediate or final product or byproduct?
YES (list all such pollu	uants below) ✓ NO (go to Item VI-B)	

EPA Form 3510-2C (8-90)

PAGE 3 of 4

CONTINUE ON REVERSE

II. BIOLOGICAL TOXICITY TESTING	o believe that any biological test for acute or chronic toxici	hy has been made an any of your d	cobargos os an a regolidad water in
ation to your discharge within the last	o delieve that any biological test for acute or chronic toxici 3 years? nd describe their purposes below)	NO (go to Section VIII)	scriarges of on a receiving water in
ole Effluent Lethality 4	18-hr acute, Critical dilution 100% wi	th a dilution series o	E 32%, 42%, 56%, 75%, and
Daphnia pulex, 3-h	composite		
SULTS for Sample Collect	ted September 24, 2018: NOEC = 100%,	PASS	
YES (list the name, addre each such laborator)	em V performed by a contract laboratory or consulting firm ess, and telephone number of, and pollutants analyzed by, or firm below)	NO (go to Section IX) C. TELEPHONE	D. POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no.)	(list)
EL Laboratories LLC ape Fear Analytical LLC	2040 Savage Road, Charleston SC 29407 3306 Kitty Hawk Road, Suite 120, Wilmington NC 28405	(843)556-8171 (910)795-0421	VOC, SVOC, Pesticides, Metals, Radiochemistry, General Chemistry, BOD, TSS
ew Mexico Water Testing aboratory Inc.	401 North Coronado Ave, Espanola, NM 87532	(505) 929-4545	E-Coli
acific EcoRisk	2250 Cordelia Rd., Fairfield CA 94534	(707) 207-7760	Whole Effluent Toxicity
K. CERTIFICATION		iraction or supprission in accordance	e with a system designed to assure the
I certify under penalty of law that this	document and all attachments were prepared under my di	wing of the parson or parsons	manage the eyetem or these same
qualified personnel properly gather a directly responsible for gathering the i are significant penalties for submitting	nd evaluate the information submitted. Based on my inconformation, the information submitted is, to the best of my false information, including the possibility of fine and impr	uiry of the person or persons who knowledge and belief, true, accura isonment for knowing violations	manage the system or those person
qualified personnel properly gather a directly responsible for gathering the i are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or p	nd evaluate the information submitted. Based on my inc nformation, the information submitted is, to the best of my false information, including the possibility of fine and impr	uiry of the person or persons who knowledge and belief, true, accura- isonment for knowing violations. B. PHONE NO. (area code & no.)	manage the system or those person
qualified personnel properly gather a directly responsible for gathering the it are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or p ichael W. Hazen, Associa	nd evaluate the information submitted. Based on my inconformation, the information submitted is, to the best of my false information, including the possibility of fine and impr	uiry of the person or persons who knowledge and belief, true, accura- isonment for knowing violations. B. PHONE NO. (area code & no.) (505) 667-4218	manage the system or those perso
qualified personnel properly gather a directly responsible for gathering the i are significant penalties for submitting A. NAME & OFFICIAL TITLE (type or p	nd evaluate the information submitted. Based on my inc nformation, the information submitted is, to the best of my false information, including the possibility of fine and impr	uiry of the person or persons who knowledge and belief, true, accura- isonment for knowing violations. B. PHONE NO. (area code & no.)	manage the system or those person

EPA Form 3510-2C (8-90)

PAGE 4 of 4

/II. BIOLOGICAL TOXICITY TESTING DATA			
Do you have any knowledge or reason to believe elation to your discharge within the last 3 years? YES (identify the test(s) and describ.	,	c toxicity has been made on any of your d	lischarges or on a receiving water in
EXTRA	A PAGE FOR S	IGNATURE O	NLY
II. CONTRACT ANALYSIS INFORMATION ere any of the analyses reported in Item V performance and the seach such laboratory or firm be A. NAME	ephone number of, and pollutants analyzed by,	NO (go to Section IX) C. TELEPHONE	D, POLLUTANTS ANALYZED
A. NAME	B. ADDRESS	(area code & no.)	(list)
CERTIFICATION			
certify under penalty of law that this document a ualified personnel properly gather and evaluat rectly responsible for gathering the information	te the information submitted. Based on m , the information submitted is, to the best of	y inquiry of the person or persons who of my knowledge and belief, true, accurat	manage the system or those persor
certify under penalty of law that this document a valified personnel properly gather and evaluat rectly responsible for gathering the information re significant penalties for submitting false inform	te the information submitted. Based on m , the information submitted is, to the best of	y inquiry of the person or persons who of my knowledge and belief, true, accurat	manage the system or those person
CERTIFICATION certify under penalty of law that this document a ualified personnel properly gather and evaluating the information re significant penalties for submitting false information NAME & OFFICIAL TITLE (type or print) .lliam S. Googlrum, Manager Los	te the information submitted. Based on m to the information submitted is, to the best of mation, including the possibility of fine and	y inquiry of the person or persons who of my knowledge and belief, true, accurat imprisonment for knowing violations.	manage the system or those person

EPA Form 3510-2C (8-90)

PAGE 4 of 4

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.

EPA I.D. NUMBER (copy from Item 1 of Form 1) NM0890010515

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.

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.

		2. EFFLUENT							ITS [blank]	4 INTAKE (optional)			
	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVR (if available		1 1/2 25	COMOCH		a. LONG T AVERAGE		b. NO. OF	
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	
a. Biochemical Oxygen Demand (BOD)	10.2	3.39		100			1	mg/L	lbs	NA	NA	NA	
b. Chemical Oxygen Demand (COD)	19	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	(0)	1-1			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	
g, Temperature (winter)	VALUE 24.0	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA	
h. Temperature (summer)	VALUE 20.0	(B)	VALUE NA		VALUE NA		est.	°C		VALUE NA		NA	
l. pH	MINIMUM 6.1 (C)	MAXIMUM 8.9 (C)	MINIMUM NA	MAXIMUM NA			est.	STANDARI	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 Comments . T	2. MA	RK "X"			3.	EFFLUENT				4. UNI	rs	5. INT/	AKE (option	al)
(if available) BELI	а	b	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERM AV (if availal		N. Karalar			a LONG TERM A VALUE		10000
	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d NO. OF ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
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	(1,0)				1.	mg/L	lbs	NA	NA	NA
c. Color	X		5	NA	(F)				1	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	(0)				1	mg/L	lbs	NA	NA	NA
f. Nitrate-Nitrite (as N)	X		5.3	1.76	(0)				1	mg/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-1

CONTINUE ON REVERSE

Los Alamosia la Laboratory
EPA ID No. 190010515
ITEM V-B CONTINUED FROM FRONT

1 POLLUTANT	2. MA	RK "X"				EFFLUENT				4. UNI	TS		AKE (option	11)
AND CAS NO.	a.	p.	a. MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM A' (if availa		d. NO. OF	a CONCEN-		a. LONG TI AVERAGE V		L 110 0F
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1). CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.787	2.6e-01					1	mg/L	1bs	NA	NA	NA
h. Oil and Grease	X		<1.54	<0.512	(E,N)				1	mg/L	lbs	NĀ	NA	NA
i. Phosphorus (as P), Total (7723-14-0)	X		0.0692	2.3e-02					1	mg/L	lbs	NA	NA	Na
j. Radioactivity														11.0
(1) Alpha, Total	X		61.4	NA					1	pCi/L	NA	NA	NA	NA
(2) Beta, Total	X		9.72	NA					ì	pCi/L	NA	NA	NA	NA
(3) Radium, Total	X		2.05	NA					1	pCi/L	NA.	NA	NA	NA
(4) Radium 226, Total	X		1.25	NA					1	pCi/L	NA	NA	NA	NA
k. Sulfate (as SO ₂) (14808-79-8)	×		51.0	17.0	(0)				1	mg/L	lbs	NA	NA	NA.
l. Sulfide (as S)		X	<0.033	<1e-02	(E)				1	mg/L	lbs	NA	NA	NA
m. Sulfite (as SO ₃) (14265-45-3)	X		0.9	0.299	(0)				1	mg/L	lbs	NA	NA	NA
n. Surfactants	X		<0.017	<6e-03	(F,E,N)					mg/L	lbs	NA	NA	NA
o. Aluminum, Total (7429-90-5)		×	<19.3	<6e-03	(H)				1	ug/L	lbs	NA	NA	NA
p. Barium, Total (7440-39-3)	X		2.54	8.5e-04	(1)				1	ug/L	lbs	NA	NA	NA
q. Boron, Total (7440-42-8)	X		56.6	1.88e-2	(1)				1	ug/L	lbs	NA	NA	NA.
r. Cobalt, Total (7440-48-4)	X		0.343	1.1e-04	(D,I)				1	ug/L	lbs	NA	NA	NA
s. Iron, Total (7439-89-6)	X		49.3	1.6e-02	(D,O)				1	ug/L	lbs	NA	NA	NA
t. Magnesium, Total (7439-95-4)	X	= 1	1660	5.5e-01					1	ug/L	lbs	NA	NA	NA
u. Molybdenum, Total (7439-98-7)	X		4.43	1.5e-03	(1)				1	ug/L	lbs	NA	NA	NA
v. Manganese, Total (7439-96-5)	×		38.1	1.3e-02					1	ug/L	lbs	NA	NA	NA
w. Tin, Total (7440-31-5)	X		16.1	5.4e-03					i	ug/L	1bs	NA	NA	NA
x. Titanium, Total (7440-32-6)		X	<2.0	<7e-04	(E)				1	ug/L	lbs	NA	NA	NA

EPA I.D. NUMBER (copy from Item 1 of Form 1) **OUTFALL NUMBER** NM0890010515 051

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for, Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cvanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these poliutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or

2 2 1 7 1 2 V X V		MARK "X				3, E	FFLUENT				4. UN	ITS	5. INTA	KE (option	af)
1. POLLUTANT AND	а	b.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERM VALUE (if ava		1 110 05	CONOCN		a. LONG TI AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
METALS, CYANIDI	E, AND TOT	AL PHENC	LS						·						
1M. Antimony, Total (7440-36-0)			X	<1.0	<3e-04	(G)				1	ug/L	lbs	NA	NA	NA
2M. Arsenic, Total (7440-38-2)			X	<2.0	<7e-04	(H)				1	ug/L	lbs	NA	NA	NA
3M. Beryllium, Total (7440-41-7)			X	<0.2	<7e-05	(G, O)	1			1	ug/L	lbs	NA	NA	NA
4M. Cadmium, Total (7440-43-9)			X	<0.3	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
5M. Chromium, Total (7440-47-3)			X	<3	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
6M, Copper, Total (7440-50-8)		X		7,35	2e-03					1	ug/L	lbs	NA	NA	NA
7M. Lead, Total (7439-92-1)			X	<0.5	<2e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
8M. Mercury, Total (7439-97-6)			X	<0.067	<2e-05	(H)				1	ug/L	lbs	NA	NA	NA
9M. Nickel, Total (7440-02-0)		X		12.2	4e-03					1	ug/L	lbs	NA	NA	NA
10M. Selenium, Total (7782-49-2)		-31	X	<2	<7e-04	(G)			12	Ī	ug/L	lbs	NA	NA	NA
11M. Silver, Total (7440-22-4)			X	<0.3	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
12M, Thallium, Total (7440-28-0)			X	<0.6	<2e-04	(H)				1	ug/L	lbs	NA	NA	NA
13M. Zinc, Total (7440-66-6)		X		3.83	1e-03	(D,I,O)				1	ug/L	lbs	NA	NA	NA
14M. Cyanide, Total (57-12-5)		T-1	X	<1.67	<6e-04	(G)				1	ug/L	lbs	NA	NA	NA
15M. Phenols, Total		X		2.54	9e-04	(D)				1	ug/L	1bs	NA	NA	NA
DIOXIN						-									

chlorodibenzo-P-Dioxin (1764-01-6)

PAGE V-3 CONTINUE ON REVERSE EPA Form 3510-2C (8-90)

EPA ID No... 390010515 CONTINUED FROM THE FRONT

5 20 30 30 4 30 2		2. MARK "X					FFLUENT				4. UN	ITS	the second secon	KE (optiona	il)
1, POLLUTANT AND CAS NUMBER	a	ь.	C.	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availai		c. LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE \		b. NO. OF
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- VOLATII	LE COMPO	UNDS												
1V. Accrolein (107-02-8)			X	<1.67	<6e-04	(G,O)				1	ug/L	1bs	NA	ŇA	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 (Chloro- methyl) 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)		11.22.5	X	<0.333	<1e-04	(G, O)				1	ug/L	1bs	NA	NA	NA
8V. Chlorodi- bromomethane (124-48-1)		X		1.02	3e-04	(I)				1	ug/L	lbs	NA	ŇA	NA
9V. Chloroethane (75-00-3)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
10V, 2-Chlora- ethylvinyl Ether (110-75-8)			X	<1.67	<6e-04	(E)				1	ug/L	1bs	NA	NA	AN
11V. Chloroform (67-66-3)		X		1.5	5e-04	(0)				1	ug/L	lbs	NA	NA	NA
12V, Dichloro- bromomethane (75-27-4)		×		0.41	1e-04	(D)				1	ug/L	lbs	NA	NA	NA
13V. Dichloro- difluoromethane (75-71-8)						(J)									
14V. 1,1-Dichloro- ethane (75-34-3)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
15V 1,2-Dichloro- ethane (107-06-2)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
16V. 1,1-Dichloro- ethylene (75-35-4)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
17V. 1,2-Dichloro- propane (78-87-5)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
18V. 1,3-Dichlaro- propylene (542-75-6)			X	<0.333	<1e-04	(G,L,O)				1	ug/L	lbs	NA	NA	NA
19V. Ethylbenzene (100-41-4)			X	<0.333	<1e-04	(G,O)				1	ug/L	1bs	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

EPA Form 3510-2C (8-90)

PAGE V-4

CONTINUE ON PAGE V-5

2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	2 MARK "X	n .			3. E	FFLUENT				4 UN	ITS	5. INT/	AKE (option	al)
1. POLLUTANT AND	а	b	c.	a MAXIMUM DA	AILY VALUE	b. MAXIMUM 30 (if availa		c. LONG TERM VALUE (if av			anvaru		a, LONG T AVERAGE V		
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	a CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF
GC/MS FRACTION	- VOLATIL	E COMPO	UNDS (com	inued)											
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. Tetrachloro- ethylene (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-Trichloro- ethane (71-55-6)			X	<0.333	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
28V 1,1,2-Trichloro- ethane (79-00-5)			X	<0.333	<1e-04	(E)				1	ug/L	lbs	NA	NA	NA
29V Trichloro- ethylene (79-01-6)			X	<0.333	<1e-04	(G,O)				1	ug/L	1bs	NA	NA	NA
30V Trichloro- fluoromethane (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 CO	MPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA.	NA
2A. 2,4-Dichloro- phenol (120-83-2)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
3A. 2,4-Dimethyl- phenol (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-Dinitro- phenol (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)			1.00	1	ug/L	lbs	NA	NA	NA
8A. P-Chloro-M- Cresol (59-50-7)			X	<3.00	<1e-03	(E)			142	1	ug/L	1bs	NA	NA	NĀ
9A. Pentachloro- phenol (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	ŅĀ	NA
11A. 2,4,5-Trichloro- phenol (88-05-2)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90) PAGE V-5 CONTINUE ON REVERSE

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a administration of		2. MARK "X		11 -			FFLUENT				4. UN	ITS	5. INTAKE (optional)		
1. POLLUTANT AND CAS NUMBER	a	b.	с	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		VALUE (if and		d. NO. OF	a. CONCEN-		a. LONG T AVERAGE V		b. NO. O
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSE
GC/MS FRACTION	- BASE/N	EUTRAL CO	DMPOUND	S											
1B. Acenaphthene (83-32-9)			X	<0.30	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
2B. Acenaphtylene (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)		111		1	ug/L	lbs	NA	NA	NA
7B. 3,4-Benzo- fluoranthene (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	1bs	NA	NA	NA
9B. Benzo (k) Fluoranthene (207-08-9)			X	<0.30	<1e-04	(G)				ì	ug/L	lbs	NA	NA	NA
10B. Bis (2-("hloro- ethoxy) Methane (111-91-1)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
11B. Bis (2-Chloro- ethyl) 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-Ethyl- hexyl) 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-Chloro- naphthalene (91-58-7)			X	<0.410	<1e-4	(G)				1	ug/L	lbs	NA	NA	NA
17B. 4-Chloro- phenyl 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-Dichloro- benzene (95-50-1)			X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA
21B. 1,3-Di-chloro- benzene (541-73-1)	1 1		X	<0.333	<1e-04	(G,O)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-6

CONTINUE ON PAGE V-7

FOR VIEW	2 MARK "X"			3. EFFLUENT							4 UNITS		5. INTAKE (optional		
1 POLLUTANT AND	а	b	C.	a. MAXIMUM DA	A STATE OF THE PARTY OF THE PAR	b. MAXIMUM 30 I		VALUE (if ava		1 110 05	antiocti.		a. LONG T AVERAGE V		L NO 05
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSE:
GC/MS FRACTION	- BASE/N	EUTRAL CO	OMPOUND	S (continued)											
228. 1,4-Dichloro- benzene (106-46-7)			X	<0.333	<1e-04	(G, O)				1	ug/L	lbs	NA	NA	NA
23B. 3,3-Dichloro- benzidine (91-94-1)			X	<3.00	<1e-03	(G,O)				1	ug/L	lbs	NA	NA	NA
24B. Diethyl Phthalate (84-66-2)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
25B. Dimethyl Phthalate (131 -11-3)		X		<0.300	<1e-04	(G,N)				1	ug/L	lbs	NA	NA	NA
26B. Di-N-Butyl Phthalate (84-74-2)		1.2.4	X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
27B. 2,4-Dinitro- toluene (121-14-2)			X	<3,00	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
28B, 2,6-Dinitro- toluene (606-20-2)			X	<3.00	<1e-03	(E)				1	ug/L	lbs	NA	NA	NA
29B, Di-N-Octyl Phthalate (117-84-0)			X	<0.300	<1e-04	(E)			11	1	ug/L	1bs	NA	NA	NA
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)			X	<3.0	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
31B. Fluoranthene (206-44-0)	-		X	<0.300	<1e-04	(G)				i	ug/L	lbs	NA	NA	NA
32B. Fluorene (86-73-7)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
33B. Hexachloro- benzene (118-74-1)			X	<3.00	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
34B. Hexachloro- butadiene (87-68-3)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
35B. Hexachloro- cyclopentadiene (77-47-4)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
36B Hexachloro- ethane (67-72-1)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)			X	<0.300	<1e-04	(G)				1	ug/L	lbs	NA	NA	NA
38B. Isophorane (78-59-1)			X	<3.50	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
39B. Naphthalene (91-20-3)			X	<0.300	<1e-04	(E,O)				1	ug/L	lbs	NA	NA	NA
40B. Nitrobenzene (98-95-3)			X	<3.00	<1e-03	(G)				1	ug/L	1bs	NA	NA	NA
41B. N-Nitro- sodimethylamine (62-75-9)			X	<3,00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
42B, N-Nitrosodi- N-Propylamine (621-64-7)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA.	NA	NA

EPA Form 3510-2C (8-90) PAGE V-7 CONTINUE ON REVERSE

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Los Alamos nal Laboratory EPA ID No. 90010515 CONTINUED FROM THE FRONT

A STATE OF		2. MARK "X	0			3. E	FFLUENT				4. UN	ITS	5. INTA	KE (optiona	(1)
1, POLLUTANT AND CAS NUMBER	а	ь.	c	a. MAXIMUM DA	ILY VALUE	b. MAXIMUM 30 [(ıf availal		c. LONG TERM VALUE (if ava		4 NO OF	a. CONCEN-		a. LONG T AVERAGE V		- NO OF
(if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- BASE/NI	EUTRAL CO	OMPOUND	S (continued)											
43B, N-Nitro- sodiphenylamine (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)	-0-			1	ug/L	lbs	NA	NA	NA
46B. 1,2,4-Tri- chlorobenzene (120-82-1)			X	<3.00	<1e-03	(G)				1	ug/L	lbs	NA	NA	NA
GC/MS FRACTION	N - PESTIC	IDES													
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)		7 = - 1		1	ug/L	1bs	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	1bs	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-Enosultan (115-29-7)			X	<0.00739	<2e-06	(G)				î	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	1bs	NA	NA	AA
14P. Endrin (72-20-8)			X	<0.01110	<4e-06	(G)		1		1	ug/L	lbs	NA	NA	NA
15P, Endrin Aldehyde (7421-93-4)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
16P_Heptachlor (76-44-8)			X	<0.00739	<2e-06	(G)				ì	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-8

CONTINUE ON PAGE V-9

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

NM0890010515

051

CONTINUED FRO						M0890010515		05	, 5						
	2	2. MARK "X	n.		3. EFFLUENT						4. UNITS		5. INTAKE (aptional		of)
1. POLLUTANT AND CAS NUMBER (if available)	a	b.	C.	a. MAXIMUM DA	AILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)				a, LONG TERM AVERAGE VALUE		b. NO. OF
	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION	- PESTICI	DES (contin	ued)												
17P. Heptachlor Epoxide (1024-57-3)			X	<0.00739	<2e-06	(G)				1	ug/L	lbs	NA	NA	NA
18P. PCB-1242 (53469-21-9)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
19P. PCB-1254 (11097-69-1)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
20P. PCB-1221 (11104-28-2)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
21P, PCB-1232 (11141-16-5)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
22P, PCB-1248 (12672-29-6)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
23P, PCB-1260 (11096-82-5)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
24P PCB-1016 (12674-11-2)			X	<0.0351	<1e-05	(G)				1	ug/L	lbs	NA	NA	NA
25P. Toxaphene (8001-35-2)			X	<0.1670	<6e-05	(G)				1	ug/L	lbs	NA	NA	NA

EPA Form 3510-2C (8-90)

PAGE V-9

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

	Estimated based upon the size of an effluent tank, the volume of influent received, and the total volume of
Α	effluent generated. The facility can discharge a maximum of 1 effluent tank every 4 hours (2 tanks in an 8
	hour shift).
В	The temperature range provided was estimated by RLW operations based upon knowledge of process.
С	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.
н	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.
1	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.
	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
М	measured as diphenylamine).
	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
N	marked as "believed present" in the previous permit application submitted in 2012.
0	Identified as a potential pollutant from one of the sources discharging to the outfall.



LOS ALAMOS NATIONAL LABORATORY

Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application Permit No. NM0028355

LA-UR-19-22215 March 2019

For: Los Alamos National Laboratory Los Alamos, NM

Submitted By: U.S. Department of Energy – National Nuclear Security Administration, Los Alamos Field Office and Triad National Security, LLC

Prepared By:
Los Alamos National Laboratory
Environmental Protection and Compliance Division
Compliance Programs Group



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VOLUME I

Section	Title
Introduction	Los Alamos National Laboratory Industrial and Sanitary Outfalls 2019 NPDES Permit Re-Application
Form 1	U.S. Environmental Protection Agency (EPA) Form 1- "General Information"
Form 2	U.S. Environmental Protection Agency (EPA) Form 2
001	Outfall 001 - Form 2C, Fact Sheet and Attachments
13S	Outfall 13S – Form 2C, Fact Sheet and Attachments
03A027	Outfall 03A027 – Form 2C, Fact Sheet and Attachments
03A048	Outfall 03A048 – Form 2C, Fact Sheet and Attachments
03A113	Outfall 03A113 – Form 2C, Fact Sheet and Attachments
03A160	Outfall 03A160 – Form 2C, Fact Sheet and Attachments
03A181	Outfall 03A181 – Form 2C, Fact Sheet and Attachments
03A199	Outfall 03A199 – Form 2C, Fact Sheet and Attachments
04A022	Outfall 04A022 – Form 2C, Fact Sheet and Attachments
051	Outfall 051 – Form 2C, Fact Sheet and Attachments
05A055	Outfall 05A055 – Form 2C, Fact Sheet and Attachments

VOLUME II

Appendix	Title
Α	List of Environmental Permits at the Los Alamos National Laboratory
В	Hazardous Waste Management Facility Maps
С	Map 1 - Los Alamos National Laboratory Technical Area Map
D	Map 2 - Sanitary Sewer and Storm Drain Systems and National Pollutant Discharge Elimination System (NPDES) Outfall Locations
E	Map 3 – Location Map of Water Supply Wells, Monitoring Wells, Springs, and Other Surface Water Bodies
F	Signature Authority Letter
G	Historical and Existing National Pollutant Discharge Elimination System (NPDES) Outfall Status Summary
Н	Notice of Changed Conditions and/or Planned Changes (March 2012 – February 2019)
I	LA-UR-18-20700, EP2018-0036, Surface Water Data at Los Alamos National Laboratory, Water Year 2014
J	2017 Drinking Water Quality Data Report
К	Executive Summary of the Los Alamos National Laboratory's National Pollutant Discharge Elimination System (NPDES) Permit Re-Application Implementation Plan
L	Sampling and Analysis Plan for Los Alamos National Laboratory's National Pollutant Discharge Elimination System (NPDES) Permit Re-Application
М	State of New Mexico Classified Stream Segments, 20.6.4 NMAC





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TABLE OF CONTENTS

EXE	CUTIVE SUMMARY	VI
1.0	NPDES PERMIT RE-APPLICATION	1
	1.1 GENERAL FORM 1	1
	1.2 FORM 2C	
2.0	BACKGROUND	2
	2.1 LABORATORY ORGANIZATION	
	2.2 LABORATORY RESEARCH ACTIVITIES	
	2.3 NPDES PERMIT NM0028355	
	2.5 OTHER ENVIRONMENTAL PERMITS	
3.0	ENVIRONMENTAL SETTING	5
	3.1 LOCATION	5
	3.2 CLIMATE	
	3.3 GEOLOGY	
	3.4 HYDROLOGY	
	3.4.2 Groundwater	
	3.5 SOIL CONDITIONS	
4.0	OUTFALL DESCRIPTIONS AND CLASSIFICATIONS	10
5.0	WASTE ACCEPTANCE, CHARACTERIZATION, AND CERTIFICATION	11
6.0	2019 NPDES RE-APPLICATION PROJECT	
	6.1 Outfall Survey	
	6.2 OUTFALL EFFLUENT SAMPLING AND ANALYSIS	
	6.3 DOCUMENT CONTROL/RECORDS MANAGEMENT	
7 0		
7.0	REFERENCES	13
LIST	OF FIGURES	
No.	Title	
1	Location of Los Alamos National Laboratory	
2	Generalized Cross-Section of the Los Alamos National Laboratory Area	
3	Primary Watersheds at Los Alamos National Laboratory	
4	Illustration of Geological and Hydrological Relationships on the Pajarito Plateau	
LIST	OF TABLES	
No.		
1	Historical Summary of NPDES Permit NM0028355	
2	Existing Permitted NPDES Outfalls	
3	List of Outfalls Included in the Permit Re-Application Package	



ACRONYMS/ABBREVIATIONS

CWA Clean Water Act

DOE U.S. Department of Energy
EA Environmental Assessment

ENV-DO Environmental Protection Division
EPA Environmental Protection Agency

EPC-CP Environmental Protection and Compliance – Compliance Programs
ESHQSS Environment, Safety, Health & Quality, and Safeguards & Security

°F Fahrenheit ft feet/foot

HEWTF High Explosives Wastewater Treatment Facility

IPSP Industrial Point Source PermitIWD Integrated Work Document

LANL Los Alamos National Laboratory

LDCC Laboratory Data Communications Center

NEPA National Environmental Policy Act
NMAC New Mexico Administrative Code

NMED New Mexico Environment Department
NNSA National Nuclear Security Administration

NPDES National Pollutant Discharge Elimination System

QA quality assurance

RCRA Resource Conservation and Recovery Act
RLWTF Radioactive Liquid Waste Treatment Facility

SAP Sampling and Analysis Plan SMO Sample Management Office

SWEIS Site Wide Environmental Impact Statement

SWWS Sanitary Waste Water System

TA Technical Area

WAC Waste Acceptance Criteria

WCATS Waste Compliance and Tracking System

WSP Waste Stream Profile





EPA ID No. NM0890010515

EXECUTIVE SUMMARY

The Los Alamos National Laboratory (Laboratory) must apply for renewal of the existing Industrial and Sanitary Point-Source National Pollutant Discharge Elimination System (NPDES) Permit No. NM0028355 issued by the U.S. Environmental Protection Agency (EPA) under the requirements specified in the Clean Water Act Section 402 and Code of Federal Regulations, Title 40, Section 122. The existing permit expires on September 30, 2019. The NPDES permit and regulations require the Laboratory to submit a re-application 180 days prior to the expiration of the existing permit, April 4, 2019. The attached document, forms, Appendices, and Attachments constitute the Laboratory's permit reapplication for the following eleven (11) outfalls:

- 001 Power Plant
- 13S Sanitary Waste Water System Facility
- 03A027 Treated Cooling Water
- 03A048 Treated Cooling Water
- 03A113 Treated Cooling Water
- 03A160 Treated Cooling Water
- 03A181 Treated Cooling Water
- 03A199 Treated Cooling Water
- 04A022 Once Through Cooling Water and Roof Drains
- 051 Radioactive Liquid Waste Treatment Facility Effluent
- 05A055 High Explosives Wastewater Treatment Facility Effluent

The Laboratory is categorized as an industrial or commercial facility that is renewing an existing NPDES permit with no new outfalls. This categorization requires that the permit reapplication include an EPA Form 1 and EPA Form 2C. This 2019 Permit Re-Application includes a Form 1 that provides general information such as the nature of business, name, mailing address, location, and other existing permits that apply to Laboratory operations. It also includes a Form 2C and fact sheet for each outfall. The Form 2C, fact sheet, and the fact sheet attachments provide detailed information regarding the location of the outfall, sources of influent water, production levels, and the analytical data for potential contaminants in the effluent discharged from the outfall.



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LOS ALAMOS NATIONAL LABORATORY INDUSTRIAL AND SANITARY OUTFALLS 2019 NPDES PERMIT RE-APPLICATION

The current Los Alamos National Laboratory (LANL or Laboratory), National Pollutant Discharge Elimination System (NPDES) Industrial and Sanitary Discharge Permit No. NM0028355 will expire September 30, 2019. The NPDES permit and regulations require the Permittees to submit a re-application to the U.S. Environmental Protection Agency (EPA) 180 days prior to the expiration of the existing permit, April 4, 2019. This document serves as the 2019 NPDES Permit Re-Application package for the renewal of NPDES Permit No. NM0028355 submitted to the EPA by the U.S. Department of Energy (DOE) – National Nuclear Security Administration (NNSA) and the Triad National Security, LLC. The DOE/NNSA and Triad are hereinafter referred to as the "copermittees or permittees."

This 2019 NPDES Permit Re-Application package has been prepared and is submitted in accordance with the provisions of the Clean Water Act (CWA) (33 U.S.C. 1251 – 1387) and the NPDES Permit Program requirements provided in 40 CFR 122.21. It is the intent of the package to provide the EPA and permit writer, New Mexico Environment Department, and others with adequate background information concerning each outfall, the surrounding environmental conditions, and associated future activities at the Laboratory to promote review of the technical data and preparation of the permit. The Permittees would like to invite EPA and New Mexico Environment Department (NMED) representatives to visit the Laboratory during the review process to gain firsthand knowledge and understanding of the information provided, identify potential issues, and answer any questions regarding proposed changes to the permitted outfalls and NPDES facilities presented in this reapplication package.

Due to the complex nature of the NPDES Permit Re-Application and potential need for supplemental information, the applicant requests that all previous applications, modifications, maps, data, and pertinent correspondence submitted in reference to NPDES Permit No. NM0028355 transmitted to the EPA up to the time the new permit is issued, be considered part of this re-application. The applicant will continue to provide copies of all such information to the EPA Permit Writer as new information becomes available.

1.0 NPDES PERMIT RE-APPLICATION

The 2019 NPDES Permit Re-Application requires that detailed information be provided for each point source outfall. The information required includes the location of each outfall; a detailed description of all sources and processes that contribute to each outfall discharge; the volume and frequency of the discharges; and analytical data for the discharges. The Laboratory is categorized as an industrial or commercial facility that is renewing an existing NPDES permit with no new outfalls. This categorization requires that the permit reapplication include an EPA Form 1 and EPA Form 2C. This application is organized into two volumes. Volume I includes an introduction and a set of alphabetically organized (A through L) appendices that provide the maps required by the Form 1 and other supplemental information to support the application. Volume II provides the Form 1 and an application package that consists of the Form 2C and fact sheet for each individual outfall.

1.1 General Form 1

The Form 1 is used to present general information such as the nature of business, name, mailing address, location, and other existing permits that apply to Laboratory operations. This permit application includes a section that is labeled Form 1 in Volume I. This section provides the completed Form 1 with its associated footnotes and applicable certifications. The following Appendices (located in Volume II) provide details regarding the Laboratory's existing environmental permits and the maps requested in Form 1 Section X and XI, respectively:

- Appendix A A list of other environmental permits that are applicable to Laboratory Operations
- Appendix B Topographic maps of each hazardous waste treatment, storage, and/or disposal unit.
- Appendix C Topographic map of the LANL technical areas (TA) and Boundaries

EPA ID No. NM0890010515

- Appendix D A Topographic map of all springs, rivers, and other surface water bodies
- Appendix E A Topographic Map of the area extending to at least one mile beyond the property boundaries that shows the outline of the facility and the location of each outfall. Detailed location maps for each intake and discharge structures are provided with each outfall Form 2C and Fact Sheet.

1.2 Form 2C

The Form 2C is used to provide detailed information regarding the location of the outfall, sources of influent water, production levels, and the analytical data for potential contaminants in the effluent discharged from the outfall. The Form 2C for each outfall is provided in Volume I as a section that corresponds to the respective outfall ID number (e.g., 001, 03A048, 051). In addition to the Form 2C, each outfall section includes a fact sheet that is intended to demonstrate compliance with the Form 2C requirements. The fact sheets provide additional detail and the supporting documentation that is requested by form for each outfall. Supporting documentation includes location maps, process schematics, water balances, photographs, a Discharge Monitoring Report Summary, and chemical safety data sheets, as applicable to each outfall. This permit application provides a Form 2C and fact sheet for the following eleven (11) outfalls:

- 001 Power Plant
- 13S Sanitary Waste Water System (SWWS) Facility
- 03A027 Treated Cooling Water
- 03A048 Treated Cooling Water
- 03A113 Treated Cooling Water
- 03A160 Treated Cooling Water
- 03A181 Treated Cooling Water
- 03A199 Treated Cooling Water
- 04A022 Once Through Cooling Water and Roof Drains
- 051 Radioactive Liquid Waste Treatment Facility (RLWTF) Effluent
- 05A055 High Explosives Wastewater Treatment Facility (HEWTF) Effluent

2.0 BACKGROUND

2.1 Laboratory Organization

The Laboratory is currently operated by Triad National Security, LLC on behalf of the U.S. Department of Energy (DOE) and thus is a co-permittee of the NPDES Permit. As co-permittee, Traid is responsible for Laboratory site compliance with the regulatory requirements of the NPDES permit and all other environmental permits granted to the Laboratory. The Environment, Safety, Health & Quality, and Safeguards & Security (ESHQSS) Directorate, Environmental Protection and Compliance (EPC-DO) provides environmental protection leadership, service, and support to meet the Laboratory's environmental protection obligations and public assurance needs. The Triad senior management has delegated the authority and responsibility to the Associate Laboratory Director of ESHQSS and/or Division Leader of the EPC-DO to act as the certifying official for environmental compliance permit applications. The Associate Laboratory Director of ESHQSS will be a signatory on the 2019 NPDES Permit Re-Application as designated by the letter provided in Appendix F.

2.2 Laboratory Research Activities

The Laboratory is a complex organization comprised of multiple disciplines and programs that include stockpile stewardship and extensive basic research in physics, chemistry, metallurgy, mathematics, computers, earth sciences, and electronics. Its current mission is to solve national security challenges through scientific excellence. The current goals of the Laboratory are to deliver national nuclear security and broader global security mission solutions and to foster excellence in science and engineering disciplines essential for national

security missions by attracting, inspiring, and developing world-class talent to ensure a vital future workplace and by enabling mission delivery through next-generation facilities, infrastructure, and operational excellence.

2.3 NPDES Permit NM0028355

The Laboratory has had an approved NPDES Permit since 1978. Table 1 summarizes the permit activities associated over the last 41 years. Appendix G provides a list of all historical and existing outfalls.

Table 1
Historical Summary of NPDES Permit NM0028355

Applica		NPDES	Permit	Outfalls Eliminated and/or Removed					
Date	No. Outfalls	Effective Date	No. Outfalls						
Prior to 1990	141	NA	NA	24 outfalls eliminated prior to the effective date of the first permit.					
1990	117	9/1/2003	34	83 outfalls were eliminated due to the completion of the Waste Stream Characterization and Corrections Project and the Outfall Reduction Project.					
1998	35	2/1/2001	21	 14 outfalls were not permitted because the supply wells associated with them were transferred from U.S. Department of Energy to Los Alamos County before the permit was issued. Request made to EPA to delete 4 outfalls (03A024, 03A047, 03A049, and 05A097) in August of 2004 because they were no longer in use. 					
2004	17	8/1/2007	15	 03A158 was not permitted because the TA-21-209 cooling tower was decommissioned and the outfall eliminated before the permit was issued. 03A028 was not permitted because the TA-15-185 and TA-15-202 Phermex facilities were decommissioned before the permit was issued. 03A021 and 03A185 were tied to the Sanitary Waste Water System (SWWS) Plant in 2010 as part of the Outfall Reduction Project. Outfalls 02A129 (TA-21 Steam Plant) and 03A130 (TA-11 cooling tower) no longer discharge to the environment. 					
2012	11	10/1/2014	11	Permitted 11 outfalls.					
2015	11	5/1/2015	11	 Permit Modification to change the maximum and monthly average temperature limits. Revised the designation of outfall 03A022 to a 04A022. 					

The existing NPDES Industrial and Sanitary Discharge Permit No. NM0028355 became effective on October 1, 2014 with final modifications implemented May 2015 (LA-UR-15-23948). This permit includes 11 outfalls located at seven (7) Technical Areas (TAs) spread out over an approximately 36 square mile area within the Laboratory boundaries (Table 2).

Table 2
Existing Permitted NPDES Outfalls

Outfall Category	Number of Outfalls	Designation
Power Plant (001)	1	001
Sanitary Wastewater System Facility (13S)	1	13S
Radioactive Liquid Waste Treatment Facility (051)	1	051
		03A027
		03A048
Tracted Cooling Weter (02A)	6	03A113
Treated Cooling Water (03A)	0	03A160
		03A181
		03A199
Non-Contact Cooling Water, Storm Water, and Roof Drain Water (04A)	1	04A022
High Explosive Wastewater Treatment Facility (05A)	1	05A055

The permit requires weekly, monthly, quarterly, yearly, and term sampling to demonstrate compliance with different outfall specific effluent quality limits. The existing permit requires the Permittees to give notice to the EPA of any planned physical alterations or additions that could significantly change the nature or increase the quantity and/or quality of pollutants discharged from any of its permitted outfalls. The existing permit includes 14 Notices of Changed Condition/Planned Change. Appendix H provides a copy of each Notice of Changed Condition/Planned Change that was submitted to the EPA from March 2012 through February 2019.

2.4 NEPA Considerations

A National Environmental Policy Act (NEPA) categorical exclusion for the Waste Stream Corrections Project was issued by DOE in January 1996 and an *Environmental Assessment (EA) for Effluent Reduction* was completed by the LANL in September 1996. This categorical exclusion and EA support the reduction/elimination of the discharges from all of the LANL outfalls except the following:

- Outfall 001, TA-3 Power Plant
- Outfall 05A055, TA-16 HEWTF
- Outfall 13S, TA-46 SWWS
- Outfall 051, TA-50 Radioactive Liquid Waste Treatment Facility
- Outfall 03A199, Laboratory Data Communications Center (LDCC) Cooling Tower

The TA-16 HEWTF (Outfall 05A055) was analyzed under a separate evaluation which provided a NEPA determination that the project was determined to be covered under an existing DOE-approved categorical exclusion for Safety and Environmental Improvements at LANL. The outfall reduction project for RLWTF (Outfall 051) was included as an option in the Final Site-Wide Environmental Impact Statement (SWEIS) for Continued Operation of Los Alamos National Laboratory (DOE 2008a). In September 2008, the National Nuclear Security Administration (NNSA) issued the first Record of Decision for the 2008 SWEIS (DOE 2008b). The NNSA chose to implement the No Action Alternative with the addition of some element of the Expanded Operations Alternative. Final design of a new RLWTF was a part of the Expanded Operations Alternative that were approved to move forward. Mitigation commitments associated with this project are included in the Mitigation Action Plan for the 2008 SWEIS.

In 2008, a Permit Requirements Identification request was submitted for the proposed actions reducing or eliminating discharges from the LDCC Cooling Tower (Outfall 03A199); TA-46 SWWS (13S); and the TA-3 Power Plant (Outfall 001). In August 2010, an EA for the Expansion of the Sanitary Effluent Recycling Facility and Environmental Restoration of Reach S-2 of Sandia Canyon at LANL and associated Finding of No Significant

Impacts was issued by the NNSA. The NNSA determined that by using adaptive management practices in the implementation of specific resource mitigation commitments, the potential for adverse environmental effects from the proposed actions would be minimal.

2.5 Other Environmental Permits

The Laboratory operations are regulated under various state and federal environmental regulations (e.g., Clean Air Act, CWA, etc.) through operating permits. These documents are designed by the regulatory agencies to allow Laboratory operations to be conducted while assuring that the public, air, land, soils, water, and biota are protected. Appendix A provides a detailed list of the environmental permits at LANL includes issuing dates, revision dates, expiration date, and the administering agency.

3.0 ENVIRONMENTAL SETTING

3.1 Location

The Laboratory and the associated residential and commercial areas of Los Alamos and White Rock are located in Los Alamos County, in north-central New Mexico, approximately 60 miles north-northeast of Albuquerque and 25 miles northwest of Santa Fe as shown on Figure 1. The Laboratory currently encompasses about 36 square miles and is situated on the Pajarito Plateau, a series of finger-like mesas and canyons at the eastern edge of the Jemez Mountains, bordered on the east by White Rock Canyon and the Rio Grande. Mesa tops range in elevation from approximately 7,800 feet (ft) on the flanks of the Jemez Mountains to about 6,200 ft at the edge of White Rock Canyon. Most Laboratory and community developments are confined to the mesa tops.

The land surrounding the Laboratory is largely undeveloped and large tracts of land north, west, and south of the Laboratory site are held by the Santa Fe National Forest, the U.S. Bureau of Land Management, Bandelier National Monument, the U.S. General Services Administration, and Los Alamos County. The Pueblo de San Ildefonso borders the Laboratory to the east. Santa Clara Pueblo is north of the Laboratory but does not share a border. The Laboratory is divided into 49 TAs, which are defined areas that may contain building sites, experimental areas, support facilities, roads, and utility rights-of-way (Appendix C).

3.2 Climate

The Los Alamos area has a semiarid mountain climate where more water is lost through evaporation and transpiration than is received as annual precipitation. Annual temperatures and amounts of precipitation vary across the site because of the 1,000-ft elevation change and the complex topography. Four distinct seasons occur in Los Alamos County. Winters are generally mild, with occasional winter storms. Spring is the windiest season. Summer is the rainy season, with frequent afternoon thunderstorms. Fall is typically dry, cool, and calm. Daily temperatures are highly variable. On average, winter temperatures range from 30°F to 50°F during the daytime and from 15 degrees Fahrenheit (°F) to 25°F during the nighttime. The Sangre de Cristo Mountains to the east of the Rio Grande act as a barrier to wintertime arctic air masses, making the occurrence of local subzero temperatures rare. On average, summer temperatures range from 70°F to 88°F during the daytime and from 50°F to 59°F during the night. From 1981 to 2010, the average annual precipitation (which includes both rain and the water equivalent of frozen precipitation) was 19 inches and the average annual snowfall amount was 59 inches. The rainy season begins in early July and ends in early September. Afternoon thunderstorms form as moist air from the Pacific Ocean and the Gulf of Mexico lifts over the Jemez Mountains. Thunderstorms yield short, heavy downpours and an abundance of lightning. Local lightning density, among the highest in the United States, is estimated at 15 strikes per square mile per year.



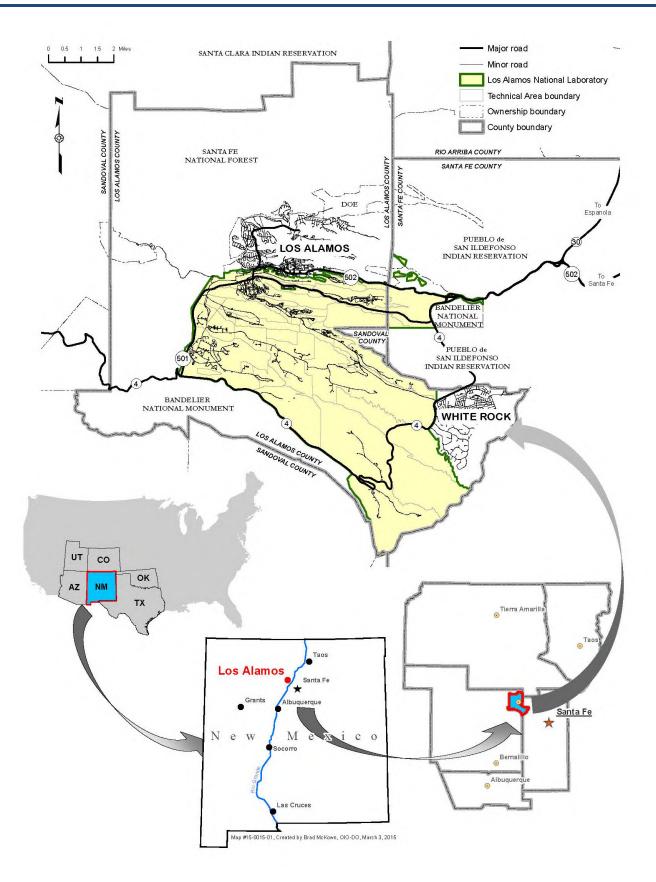


Figure 1 - Location of Los Alamos National Laboratory

3.3 Geology

The Laboratory is located in Northern New Mexico on the Pajarito Plateau (Figure 2). The Pajarito Plateau extends from the Rio Grande in the east to the Sierra de los Valles range of Jemez Mountains in the west. Rocks that compose Bandelier Tuff cap the Pajarito Plateau. The tuff was formed from ash and other volcanic materials that erupted from the Jemez Mountains volcanic center approximately 1.2 to 1.6 million years ago. The tuff is more than 1,000 ft thick in the western part of the plateau and thins to about 260 ft next to the Rio Grande.

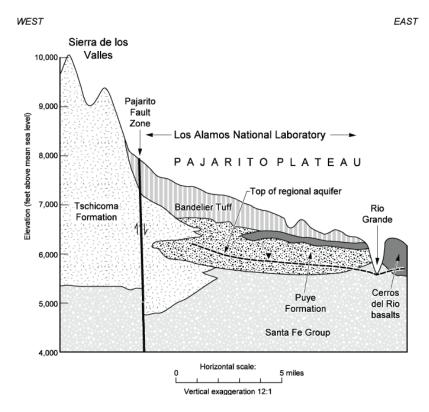


Figure 2 - Generalized Cross-Section of the Los Alamos National Laboratory Area

On the western part of the Pajarito Plateau, the Bandelier Tuff overlaps the Tschicoma Formation, which consists of older volcanic deposits. The Puye Formation, a largely unconsolidated sedimentary conglomerate, underlies the tuff beneath the central and eastern portion of the plateau. The Cerros del Rio basalt flows, which originated mostly from a volcanic center east of the Rio Grande, extend into the Puye Formation beneath the Laboratory. These formations all overlie the sediments of the Santa Fe Group, which cross the Rio Grande valley and are more than 3300 ft thick.

3.4 Hydrology

3.4.1 Surface Water

The Laboratory property contains all or parts of seven primary watersheds that drain directly into the Rio Grande. Listed from north to south, the major canyons for these watersheds are Los Alamos, Sandia, Mortandad, Pajarito, Water, Ancho, and Chaquehui as shown on Figure 3. Each of these watersheds includes tributary canyons of various sizes. Los Alamos, Pajarito, and Water Canyons have their headwaters west of the Laboratory in the eastern Jemez Mountains, mostly within the Santa Fe National Forest. The remainder the primary watersheds have their headwaters on the Pajarito Plateau. Only the Ancho Canyon watershed is entirely located on Laboratory land.



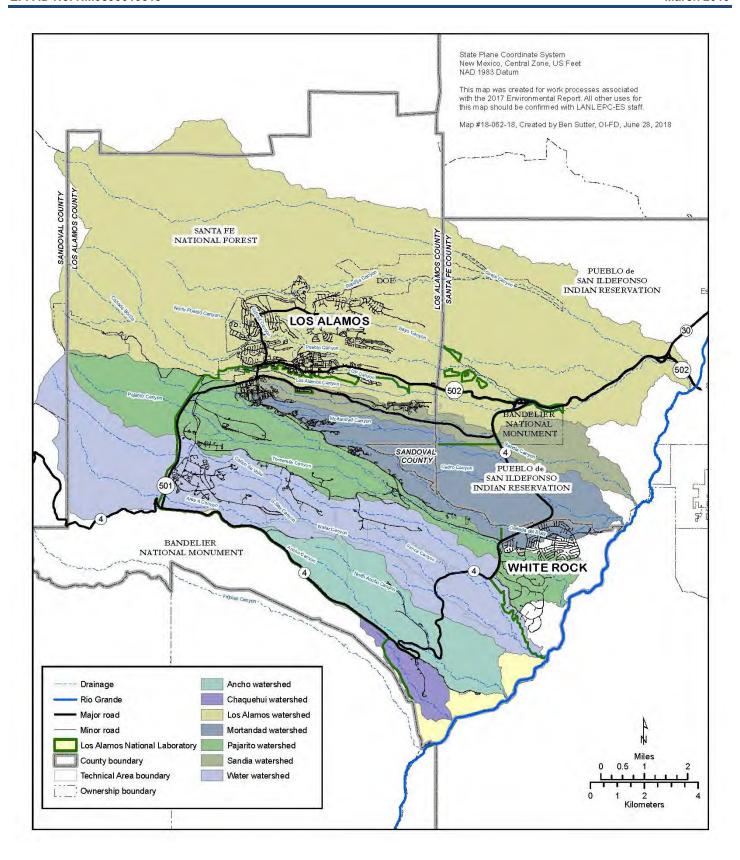


Figure 3 - Primary Watersheds at Los Alamos National Laboratory

Surface water in the Los Alamos region occurs primarily as ephemeral flow, which is associated with individual storms and lasting only a few hours to days, or intermittent flow, which is associated with events like snow melt and lasts only a few days to weeks. Springs on the edge of the Jemez Mountains that flow year-round do supply continuous water into western sections of some canyons on Laboratory property, but the amount of water is not enough to maintain surface flows to the eastern Laboratory boundary.

Except during major runoff events, the cumulative flow of wastewater discharges do not reach the Rio Grande. The intermittent runoff leaving Laboratory property is measured at gage stations located in each watershed. These flow measurements are periodically published in the Watershed Periodic Monitoring Reports or in reports for a given water year. Appendix I provides the most recent Surface Water Data report for Water Year 2014. Appendix E provides a scaled full size map showing the location of the springs/base flow associated with each watershed and the locations of the outfalls associated with this re-application document.

3.4.2 Groundwater

The Laboratory is located on top of a thick zone of mainly unsaturated rock and sediments, with the primary aquifer found 600 - 1,200 ft below the ground surface. Groundwater occurs beneath the Pajarito Plateau in three modes: (1) perched alluvial groundwater in canyon bottoms; (2) zones of intermediate-depth perched groundwater whose location is controlled by availability of recharge and by subsurface changes in permeability; and (3) the regional aquifer beneath the Pajarito Plateau as shown on Figure 4.

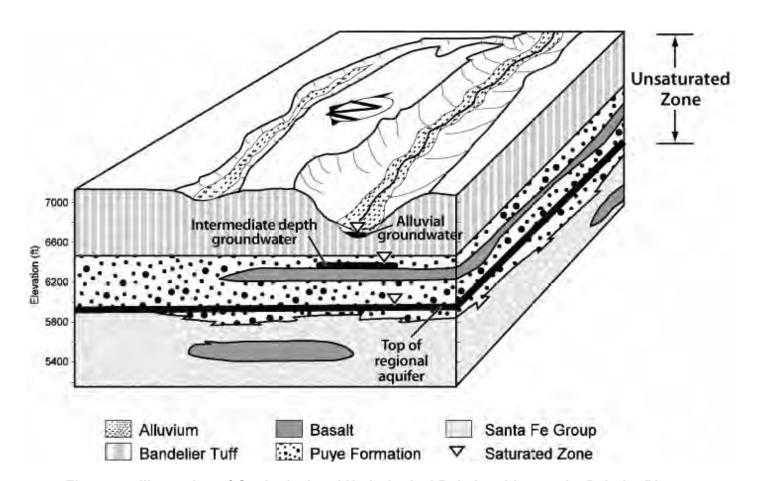


Figure 4 – Illustration of Geological and Hydrological Relationships on the Pajarito Plateau



EPA ID No. NM0890010515

Perched alluvial groundwater is a limited area of saturated rocks and sediments directly below canyon bottoms. Surface water percolates through the alluvium until downward flow is disrupted by less permeable layers of rock, resulting in shallow perched bodies of groundwater. Most of the canyons on the Pajarito Plateau have infrequent surface water flow and, therefore, little or no alluvial groundwater. A few canyons have saturated alluvium in their western ends supported by runoff from the Jemez Mountains. In some locations, surface water is supplemented or maintained by discharges from Laboratory outfalls. As alluvial groundwater moves down a canyon, it either evaporates, is used by plants, or percolates into underlying rock.

Perched-intermediate groundwater occurs within the lower part of the Bandelier Tuff and the underlying Puye Formation and Cerros del Rio basalt underneath some canyons (Figure 4). These intermediate-depth groundwater bodies are formed in part by water moving downward from alluvial groundwater until the water reaches a layer of relatively impermeable rock. Depths of the perched-intermediate groundwater zones vary. For example, the depth to perched-intermediate groundwater is approximately 120 ft beneath Pueblo Canyon, 450 ft beneath Sandia Canyon, and 500 to 750 ft beneath Mortandad Canyon.

The uppermost level of water in the regional aquifer (known as the water table) occurs at a depth of approximately 1,200 ft below ground surface along the western edge of the plateau and 600 ft below ground surface along the eastern edge. Studies indicate that water from the Sierra de los Valles is the main source of recharge for the regional aquifer (LANL 2005). Groundwater in the regional aquifer generally flows east or southeast. The speed of groundwater flow varies but is typically around 30 ft per year. The regional aquifer is separated from alluvial and perched-intermediate groundwater by layers of unsaturated tuff, basalt, and sediment with generally low moisture content (<10 percent). The limited extent of the alluvial and intermediate groundwater bodies, along with unsaturated rock that underlies them, restricts their contribution to recharging the regional aquifer, although locally they are important parts of the complete pathway to the regional aquifer.

The Laboratory uses groundwater for its potable water supply to laboratory facilities, sanitary facilities, and operations support facilities (cooling towers, power plant etc.). This groundwater contains various levels of natural elements that are dissolved as the water passes through the sub-surface geology. Appendix J provides the sampling results for well water as collected by the Los Alamos County Safe Drinking Water Act Sampling Program for 2017.

3.5 Soil Conditions

Most of the Laboratory facilities are located on mesa tops, where the soils are generally well-drained and thin. The parent materials are approximately 95% Bandelier Tuff, volcanic rocks of the Tschicoma and Puye Formations, and the Cerros de Rio Basalts of the Chino Mesa, and the remnants of the El Cajete pumice. The remaining 5% was formed from colluviums, alluvium, andesitic rocks of the Paliza Canyon Formation, Cerro Rubio Quartz Latites, and tuffs associated with the sediments of the Cerro Toledo Rhyolite. The textures of the these soils range from very fine sandy loams and clay loams to gravelly, sandy loams and stony, silty clay loams.

4.0 OUTFALL DESCRIPTIONS AND CLASSIFICATIONS

This 2019 NPDES Permit Application Package includes documentation for 11 industrial and sanitary outfalls as shown in Table 3 and the map provided as Appendix D. These outfalls discharge into 4 of the watersheds in the LANL region, with the amount of discharge varying from year to year. Detailed treatment descriptions and future proposed changes to NPDES permitted facilities and outfalls are found in the EPA Form 2C Applications and Fact Sheets for each outfall.

Table 3
List of Outfalls Included in the Permit Application Package

Outfall ID No.	Location	Receiving Stream ^a	Watershed
001	TA-3	Perennial Reach of Sandia Canyon, Water Quality Segment 20.6.4.126 NMAC	Sandia
13S	TA-46	Canada del Buey, Water Quality Segment 20.6.4.128 NMAC	Canada del Buey b
03A027	TA-3	Perennial Reach of Sandia Canyon. Water Quality Segment 20.6.4.126 NMAC	Sandia
03A048	TA-53	Ephemeral Tributary to Los Alamos Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Los Alamos
03A113	TA-53	Ephemeral Reach of Sandia Canyon, Water Quality Segment 20.6.4.126 NMAC	Sandia
03A160	TA-35	Ten Site Canyon, Tributary to Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
03A181	TA-55	Effluent Canyon, Ephemeral Reach of Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
03A199	TA-3	Ephemeral Tributary to Upper Sandia Canyon Water Quality Segment 20.6.4.126 NMAC	Sandia
04A022	TA-3	Ephemeral Reach of Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
051	TA-50	Effluent Canyon, Ephemeral Reach of Mortandad Canyon, Water Quality Segment Number 20.6.4.128 NMAC	Mortandad
05A055	TA-16	Ephemeral Tributary to Canon De Valle, Water Quality Segment Number 20.6.4.128 NMAC	Water/CdV

- a. See Appendix M for a map showing the New Mexico Water Quality Stream Segments.
- b. Treated effluent from Outfall 13S is pumped to the TA-3 Re-Use tank and discharged to Outfall 001. To date, the TA-46 SWWS Plant has never discharged into Canada del Buey. Canada del Buey is a tributary to Mortandad Canyon.

NMAC = New Mexico Administrative Code

5.0 WASTE ACCEPTANCE, CHARACTERIZATION, AND CERTIFICATION

The Laboratory's waste management requirements are consistent with the applicable DOE orders, and state and federal regulations. All waste generators at the Laboratory are required to properly identify and document the characterization of any solid, hazardous, radioactive, or mixed waste pursuant to P409, *Waste Management* and the waste acceptance criteria (WAC) provided in P409-1, LANL Waste Acceptance Criteria and PA-AP-01039, *Waste Acceptance Criteria for Transuranic Radioactive Liquid Waste*. The WAC for the wastewater treatment facilities that may discharge to an NPDES permitted outfall are based on the NPDES effluent limits, New Mexico Water Quality Standards, Resource Conservation and Recovery Act Universal Treatment Standards, and/or other federal and state requirements. The treatment processes and capacities of these facilities are also considered during the development of the WAC.

The Laboratory utilizes the waste stream profile (WSP) to provide a complete and concise description of each waste stream including the details of the generating process. The WSP process provides generators with guidance to help make the determination of the physical, chemical, and radiological characteristics of the waste with sufficient accuracy to permit proper segregation, treatment, and disposal appropriate facility WAC. A WSP is required for all waste streams to be discharged or transported to the SWWS, RLWTF, and/or the HEWTF. The WSPs are typically prepared by the generator with the assistance of a Waste Management Coordinator who then enters the information into the Waste Compliance and Tracking System (WCATS). The WCATS system automatically routes the WSP for approval by the appropriate organizations/personnel and allows for the generator to attach characterization data, acceptable knowledge data and other information necessary to properly document the waste stream.

6.0 2019 NPDES RE-APPLICATION PROJECT

The data and information used to prepare this 2019 NPDES Permit Re-Application document was prepared by a project team that consisted of representatives from DOE, Environmental Protection and Compliance Division's Compliance Program (ECP-CP) Group, Outfall owners, and Facility Operations Directors/Managers. The project team responsibilities and activities were outlined in a project Implementation Plan (Appendix K). The following sections provide a brief discussion of the work activities and the procedures and processes that were utilized by personnel to ensure that the information provided in this re-application document is complete and accurate.

6.1 Outfall Survey

The outfall survey was to accumulate records, logs, operating procedures, sampling data, compliance inspection reports, topography maps, chemical inventories, WSPs, Safety Data Sheets, Notice of Change/Plans to Change, and previous Laboratory discharge non-compliance records and reports to support completion of the Form 2C for each outfall. The outfall survey included site visits to each of the 11 outfalls and their associated treatment facilities to take photographs, provide confirmation of the sources and processes, verify the outfall location, and collect documentation.

6.2 Outfall Effluent Sampling and Analysis

The Permittees prepared a project specific Sampling and Analysis Plan (SAP) (Appendix L) to ensure that representative samples were collected, preserved, and managed in accordance with the EPA application Form 2C. All samples were collected in accordance with the project specific SAP; EPC-CP-QP-005, Sampling at NPDES Permitted Point-Source Outfalls; and EPC-CP-IWD-005, IWD Part 1, NDPES Outfall Sampling. The samples were shipped by the Sample Management Office (SMO) to a LANL approved analytical laboratory required to use EPA approved methods and follow DOE contract requirements.

All analytical data, upon receipt from the laboratory, was formally validated. After the data was validated it was forwarded to ECP-CP from the SMO and hand entered onto the Form 2C. The accuracy of the hand entered data was independently verified and the review documented, forwarded to the appropriate record series, and a hard copy sent to ECP-CP.

6.3 Document Control/Records Management

Effective document control, record keeping, and data management was conducted in accordance with ADESH-AP-007, *Document Control*; ADESH-AP-006, *Records Management*; and EPC-CP-QAPP-NPDES, Quality Assurance Project Plan for the NPDES Industrial Point Source Permit (IPSP) Self-Monitoring Program.

6.4 Quality Assurance

The quality assurance (QA) for the project was performed in accordance with SD330, Los Alamos National Laboratory Quality Assurance Program, ADESH-QAP-001, Quality Assurance Plan, and EPC-CP-QAPP-NPDES IPSP, Quality Assurance Project Plan for the NPDES Industrial Point Source Permit (IPSP) Self-Monitoring Program. Quality assurance reviews for data accuracy were conducted throughout the project to ensure that data collected from the outfall surveys, site visits, and sampling activities were reasonable and adequately documented. These QA reviews were initially be conducted by project personnel as the data was collected and/or received. Questionable or undocumented data initiated additional investigations with outfall owners/operators. To ensure accuracy, all collected or compiled data was compared and evaluated against existing data obtained from other internal and external entities.

Formal reviews were also conducted by subject matter experts, the outfall owners; and EPC-CP personnel. These included formal comment review and response to ensure that all changes were documented.

7.0 REFERENCES

ADESH-AP-006: Records Management.

ADESH-AP-007: Document Control.

ADESH-QAP-001: Quality Assurance Plan.

DOE 2008a: "Final Site-Wide Environmental Impact Statement for the Continued Operation of Los Alamos National Laboratory, Los Alamos, New Mexico," U.S. Department of Energy report DOE/EIS-0380 (May 16, 2008).

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