STATE OF IOWA
DEPARTMENT OF WATER, AIR AND WASTE MANAGEMENT
ACTIVATED SLUDGE

OPERATION PERMIT SYSTEM
MONTHLY MONITORING REPORT

April (MONTH) 1985 (YEAR)

FACILITY NAME Duane Arnold Energy Center
FACILITY NUMBER 5 7 0 0 1 0 4
DISCHARGE SERIAL NUMBER 0 0 2

CPD-69904 11/77

DATE	PRECIPITATION INCHES/DAY	RAW SEWAGE TEMPERATURE °F	RAW SEWAGE FLOW 1,000'S GPD	RAW SEWAGE BY-PASSED 1,000'S GPD	RAW SEWAGE pH	RAW SEWAGE SETTLEABLE SOLIDS ML/L	RAW SEWAGE SUSPENDED SOLIDS MG/L	RAW SEWAGE SUSPENDED SOLIDS LBS/DAY	RAW SEWAGE BOD5 MG/L	RAW SEWAGE BOD5 LBS/DAY	RAW SEWAGE AMMONIA NITROGEN MG/L	RAW SLUDGE 100'S GALS. PUMPED	RAW SLUDGE TOTAL SOLIDS %	RAW SLUDGE VOLATILE SOLIDS %	DIGESTER CONTENTS TEMPERATURE °F	DIGESTER CONTENTS pH	DIGESTER CONTENTS VOLATILE ACIDS MG/L	DIGESTER CONTENTS ALKALINITY MG/L	DIGESTED SLUDGE TOTAL SOLIDS %	DIGESTED SLUDGE VOLATILE SOLIDS %	DISPOSAL VOLUME UNIT 100 GALS.	AERATION TANK 1 DISSOLVED OXYGEN MG/L	AERATION TANK 1 MIXED LIQUOR SETTLEABLE SOLIDS ML/L	AERATION TANK 1 MIXED LIQUOR SUSPENDED SOLIDS MG/L	AERATION TANK 2 DISSOLVED OXYGEN MG/L	AERATION TANK 2 MIXED LIQUOR SETTLEABLE SOLIDS ML/L	AERATION TANK 2 MIXED LIQUOR SUSPENDED SOLIDS MG/L	WASTE SLUDGE RETURN ACTIVATED SLUDGE 1,000'S GPD	WASTE SLUDGE WASTED ACTIVATED SLUDGE 1,000'S GPD	FINAL EFFLUENT BOD5 MG/L	FINAL EFFLUENT BOD5 LBS/DAY	FINAL EFFLUENT SUSPENDED SOLIDS MG/L	FINAL EFFLUENT SUSPENDED SOLIDS LBS/DAY	FINAL EFFLUENT SETTLEABLE SOLIDS ML/L	FINAL EFFLUENT AMMONIA NITROGEN MG/L	FINAL EFFLUENT AMMONIA NITROGEN LBS/DAY	FINAL EFFLUENT DISSOLVED OXYGEN MG/L	FINAL EFFLUENT pH	FECAL COLIFORM NO./100 ml	RESIDUAL CHLORINE MG/L	RECEIVING STREAM FLOW-CFS
1			20.1		8.6		520	87	432	72											19	1.6		3343					41	6.8	16	2.7				1.5	6.9		0		
2																																										
3																																									
4			8.66																																						
5																																									
6			6.65																																						
7																																									
8			16.7		8.4		130	18.1	271	37.7												1.6		3264					39	5.4	45	6.3				1.4	6.8		0		
9																					19																				
10			16.3																																						
11																																									
12			13.7																																						
13																																									
14																																									
15			11.0																																						
16			11.0		8.5		112	10.3	161	14.7											19	1.7		3170					22	2.0	19	1.7				1.4	6.8		0		
17																																									
18																																									
19			12.3																																						
20			16.7																																						
21																																									
22			13.7		8.6		280	32	222	35.4												1.7		3870					28	3.2	45	5.1				1.6	6.8		0		
23																																									
24			11.0																		19																				
25																																									
26			21.9																		19																				
27																																									
28																																									
29			11.0		8.6		180	16.5	120	11												1.6		3460					24	2.2	23	2.1				1.5	7.3		0		
30																					19																				
31																																									
TOTAL				0																	114																				
AVG.			13.3				244	32.8	241	32.3											19	1.6		3425					31	3.9	29	3.6				1.5			0		
MAX.			21.9		8.6		520	87	432	72											19	1.7		3870					41	6.8	45	6.3				1.6	7.3		0		
MIN.			6.6		8.4																	1.6		3170												1.4	6.8		0		
CODE		742	743	775	701	741	740	740	760	760	704	780									780								760	760	740	740	741	704	704	703	701	763	703		
CODE		000	000	001	000	000	000	000	000	000	000	000									001								001	001	001	001	001	001	001	001	001	001	001		

INFLUENT 24 HOUR SAMPLE COLLECTION [000]

FLOW _____ MILLION GALLONS/DAY [74324]
BOD_5 _____ MG/L _____ LBS/DAY [76024]
SUSPENDED SOLIDS _____ MG/L _____ LBS/DAY [74024]
AMMONIA NITROGEN _____ MG/L _____ LBS/DAY [70424]

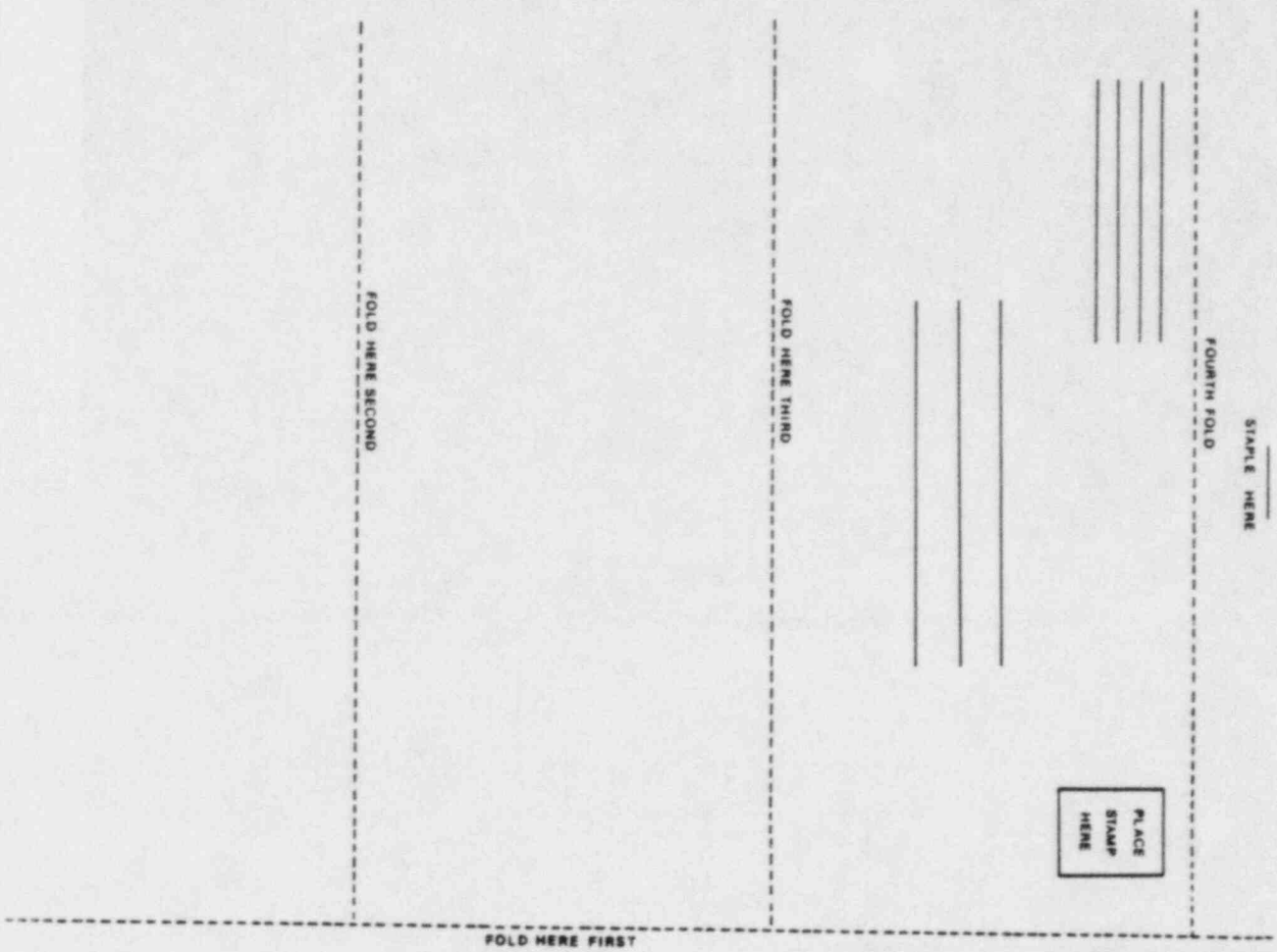
EFFLUENT 24 HOUR SAMPLE COLLECTION [000]

FECAL COLIFORM _____ ORGANISMS/100 ML [76324*]
BOD_5 _____ MG/L _____ LBS/DAY [76024]
SUSPENDED SOLIDS _____ MG/L _____ LBS/DAY [74024]
AMMONIA NITROGEN _____ MG/L _____ LBS/DAY [70424]

Thomas Plumb
SIGNATURE OF EXECUTIVE OFFICER OR AGENT

Contract Operator / A&T Consultants
TITLE

WAWM FORM 35-7 (Jul 1, 83)
(Replaces DEQ Form WQMD VII, which may be used)



REMARKS: _____

IMPORTANT

MAKE SURE YOU HAVE CORRECTLY ENTERED FACILITY NAME, FACILITY NUMBER, DISCHARGE SERIAL NUMBER, AND REPORTING PERIOD.

MAKE SURE YOU HAVE CORRECTLY ENTERED ALL AVERAGES, MAXIMUMS, AND MINIMUMS.

ALL ENTRIES MUST BE LEGIBLE.

MAINTAIN A COPY OF THIS REPORT FOR YOUR RECORDS.

THIS REPORT MUST BE SUBMITTED TO THE DEPARTMENT OF WATER, AIR AND WASTE MANAGEMENT, BY THE 10TH DAY OF THE MONTH FOLLOWING THE MONTH BEING REPORTED.