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Office of Environmental Affairs
Southwest Regional Office

PPG INDUSTRIES, INC. INDUSTRIAL CHEMICAL DIVISION P. O. BOX 1000 LAKE CHARLES, LA. 70602

April 13, 1982

Mr. Richard Goudeau
Department of Natural Resources
Office of Environmental Affairs
Water Pollution Control Division
P.O. Box 3047
Lake Charles, LA 70602

Re: PPG's State Inspection of 4/6-7/82
NPDES Permit No. LA0000761

Dear Mr. Goudeau:

Listed below, per your request, are the recorded flows of the outfalls sampled during the State Inspection of April 6-7, 1982. Also, you will find attached a copy of the strip chart indicating pH at Outfall 001 for the same period.

Outfall 010	497 gpm
Outfall 011	205
Outfall 111	490
Outfall 017	356
Outfall 018	3824
Outfall 118	203
Outfall 019	56

Should you have any further questions, contact me at 491-4420 or Jim Wyche at 491-4830.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'Patrice M. McFarlain'.

PATRICE M. MCFARLAIN
Environmental Control Assistant

PMM:ap

Attachment

cc: W. J. Peard/J. E. Wyche/File #306.2.05

SL 023279

SAMPLE LOCATION: ITT Industries Inc. Lake Wales LA0000761
CITY OR INDUSTRY NAME AND LOCATION

OBSERVATIONS & REMARKS FOR PERIOD BEGINNING _____ hrs. ON April 6, 1982

SHIFT
SUPERVISOR:
SIGN YOUR
REMARKS!!!

OUTFALL NO.: 018 SAMPLE NO.: _____

Use company's sampler - move from 16 to 26
then push onto sample button - return to original
position (LSK)

Get flow in control room (OTC control room)

Chart $\times 160 = \text{GPM}$ or Scale $\times 1000$

① $3.5 \times \frac{1000}{1000} = 500$ (LSK)

② $3.5 \times 1000 = 3500$ (SK)

③ $4 \times 1000 = 4000$ PPA 15% greater flow

④ $4 \times 1000 = 4000$ PPA

⑤ $4 \times 1000 = 4000$ PPA

⑥ $4 \times 1000 = 4000$ PAB

⑦ $4 \times 1000 = 4000$ JDT

⑧ $3.5 \times 1000 = 3500$ JDT

CPA-HPS 3-3172

DATE: April 6, 1982 April 7, 1982

LA0000761

OUTFALL NO.: 18

SAMPLE NO.:

CREW A

Linda Korn, Bruce Hammett

CREW B

Pat Hammock, David Brightbill

CREW C

Bill Sarco, Dirk Kavanagh

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	0845	1245	1529	1847	2124	0012	0309	0609				
FLOW <u>gpm</u> <u>units</u>	00000000	3500	3500	4000	4000	4000	4000	4000	3500				
TEMPERATURE °	00000000	3500gpm											
pH	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
ADD-SOLIDS-COLOR-TURBIDITY	SAMPLE ON	120ml	120ml	135ml	135ml	135ml	135ml	135ml	120ml				
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter	120ml	120ml	135ml	135ml	135ml	135ml	135ml	120ml				
METALS	5ml. concentrated HNO ₃ per liter												
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40 mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect test hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR-initial each block	00000000	LSK	LSK	ARM	ARM	PRM	PRB	IDK	IDK				
LSK													

SL 023281

SAMPLE LOCATION: PPG Industries Inc. Lake Charles LA0000761
CITY OR INDUSTRY NAME AND LOCATION

OBSERVATIONS & REMARKS FOR PERIOD BEGINNING _____ hrs. ON April 6, 19 82

SHIFT
SUPERVISOR:

SIGN YOUR
REMARKS!!!

OUTFALL NO.: 010 SAMPLE NO.: _____

Read flow directly from chart in %

$$\#3 \quad \frac{16.5 - 14.5}{14.5} \times 100 = 13\frac{4}{5}\%$$

13% of 120 = 15.6 sample equals 105 ml

#5 110 ml figured in same fashion as above
using 16.5 + 15.

02-1118 3-9-72

SAMPLE LOCATION: ITT Industries, Inc., Lake Charles

SAMPLING CREW SUPERVISORS SIGNATURES.

DATE: April 6, 1982 April 7, 1982

START SAMPLING

END SAMPLING

LA0000761

OUTFALL NO.: 010

SAMPLE NO.: _____

CREW A Linda Korn, Bruce HammattCREW B Pat Hammack, David BrightbillCREW C Bill Sacco, Dick Kavanagh

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
✓ TIME (hours)	00000000	0835	1235	1520	1838	2115	0005	0301	0603				
✓ FLOW <u>70</u> units	00000000	16.5	21	14.5	23	15	19	22	24				
TEMPERATURE °	00000000												
4	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
BOD-SOLIDS-COLOR-TURBIDITY	SAMPLE ON												
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
✓ METALS Chromium	5ml. concentrated HNO ₃ per liter	120ml	150ml	105ml	155ml	110ml	140ml	150ml	155ml				
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40 mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
✓ SUPERVISOR - initial each block	00000000	LSK	ZSK	PAK	KMA	PAK	DBB	LDK	LDK				

SL 023284

SAMPLE LOCATION: HYG Industries, Inc., Lake Charles LA 000761
CITY OR INDUSTRY NAME AND LOCATION

OBSERVATIONS & REMARKS FOR PERIOD BEGINNING _____ NO. ON April 6, 19 82

SHIFT
SUPERVISOR:
SIGN YOUR
REMARKS!!!

OUTFALL NO.: 017 SAMPLE NO.: _____

Read Slow directly from chart in %

① 52%

③ $\frac{52-62}{62} \times 100 = 19.8\%$ 20% of 120 = 24 ml

⑧ $\frac{52}{120} \sim \frac{72}{x} = 166$ 15K

$$\begin{array}{r} 120 \\ 24 \\ \hline 8400 \\ 8400 \end{array}$$

$$\begin{array}{r} 166 \\ 52 \overline{) 8640} \\ \underline{82} \\ 3440 \\ \underline{312} \\ 220 \\ \underline{212} \\ 8 \end{array}$$

SAMPLE LOCATION: 110 LINDSAY, INC. 6716 WILLIAMS
CITY OR INDUSTRY NAME AND LOCATION LA0000761

DATE: April 6, 1982 April 7, 1982
START SAMPLING END SAMPLING

OUTFALL NO.: 017 SAMPLE NO.: _____

CREW A Linda KERN, Bruce Hammett
CREW B Pat Hammack, David Brightbill
CREW C Bill Sarco, Dink Karanagh

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
✓ TIME (hours)	00000000	0915	1300	1547	1714	2148	0033	0342	0629				
✓ FLOW <u>7.2</u>	00000000	52	55	62	62	62	62	62	72				
TEMPERATURE °	00000000												
H	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	00
✓ BOD (SOLIDS) COLOR-TURBIDITY	SAMPLE ON	120ml	125ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
✓ METALS <u>Lead</u>	5ml. concentrated HNO ₃ per liter	120ml	125ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml	140ml
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	10ml. 0.1% NaOH per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-Initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
✓ SUPERVISOR-initial each block	00000000	LSK	LSK	LSK	LSK	LSK	LSK	LSK	LSK	LSK	LSK	LSK	LSK
SL 023285													

CITY OR INDUSTRY NAME AND LOCATION

**SHIFT
SUPERVISOR:**

**SIGN YOUR
REMARKS!!!**

SL 023286

SAMPLE LOCATION: Y I V LINDASIRIES, INC. LAKE CHARLES

SAMPLING CREW SUPERVISORS SIGNATURES:

DATE: April 6, 1982 April 7, 1982

OUTFALL NO.: 011 SAMPLE NO.:

CREW A Linda Korn, Bruce Hammett
CREW B Pat Hammack, David Brightbill
CREW C Bill Sarco, Dick Kavanagh

		A L I O U T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	0745	0810	1554	1921	1956	0045	0348	0638				
FLOW <u>76</u> units	00000000	31	30.5	31.5	33	37	35	36	26				
TEMPERATURE °	00000000												
PH	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
BOD (SOLIDS) COLOR-TURBIDITY	SAMPLE ON	120ml	120ml	120ml	125ml	140ml	135ml	135ml	104ml				
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
METALS <u>MERCURY</u>	5ml. concentrated HNO ₃ per liter	120ml	120ml	120ml	125ml	140ml	135ml	135ml	104ml				
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40 mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR-initial each block	00000000	LSL	LSK	DATA	DATA	DATA	DATA	JDK	JDK				

SL 023287

SAMPLE LOCATION: PPG Industries, Inc. Lake Charles LA0000761
CITY OR INDUSTRY NAME AND LOCATION

OBSERVATIONS & REMARKS FOR PERIOD BEGINNING _____ hrs. ON April 6, 19 82

SUPERVISOR: SIGN YOUR REMARKS!!!
--

OUTFALL NO.: 019 SAMPLE NO.: _____

CL- cont
norm
For Glow, add Brine Solids Sump + Strong!! bubble Air
Brine Solids - read direct gpm (red)
Acid - blue ink, read right column on right

- ① $40 + 2 = 42$ gpm
- ② $37 + 2 = 39$ gpm
- ③ $44 + 2 = 46$ gpm P/A $42-46 \times 100 = 10\% \Rightarrow 1.30$ ml $\frac{46}{46}$
- ④ $42 + 1 = 43$ gpm P/A
- ⑤ $43 + 1 = 44$ gpm P/A
- ⑥ $38 + 1 = 39$ gpm JAK
- ⑦ $40 + 1 = 41$ gpm JAK
- ⑧ $40 + 1 = 41$ gpm JAK

SAMPLE LOCATION: PPG Industries, Inc., Lake Charles
 CITY OR INDUSTRY NAME AND LOCATION
 DATE: Apr 6, 1982 April 7, 1982 LA0000761
 START SAMPLING END SAMPLING
 OUTFALL NO.: 019 SAMPLE NO.: _____

SAMPLING CREW SUPERVISORS SIGNATURES:

CREW A Linda Kern, Bruce Hammett
 CREW B Pat Hammack, David Brightbill
 CREW C Bill Sarco, Dick Kavanagh

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	1010	1320	1605	1936	2215	0102	0405	0700				
FLOW <u>gpm</u>	00000000	42	39	46	43	44	39	41	41				
TEMPERATURE °	00000000												
PH	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
BOD (SOLIDS) COLOR-TURBIDITY	SAMPLE ON	120L	110L	130ml	120ml	125ml	110ml	110ml	110L				
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
METALS	5ml. concentrated HNO ₃ per liter												
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CaSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-Initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR - initial each block	00000000	LSK	LSK	KXH	RAV	RAV	ADB	LDK	LDK				

SL 023289

SAMPLE LOCATION: FFG Industries, Inc. Lake Charles LA0000701
CITY OR INDUSTRY NAME AND LOCATION

OBSERVATIONS & REMARKS FOR PERIOD BEGINNING _____ hrs. ON April 6, 1982

SHIFT
SUPERVISOR:
SIGN YOUR
REMARKS!!!

OUTFALL NO.: 111 SAMPLE NO.: _____

Sample in small manifold
Chart X 10 = 6 PM

① $53 \times 10 = 530 \text{ gpm}$

③ $50 \times 10 = 500 \text{ gpm}$ $\frac{530 - 500}{500} \times 100 = 7.2\%$ $7.2\% \text{ of } 120 = 125 \text{ ml}$

115 ml sample should have been taken 125 ml
was instead. P.H.H.

④ $54 \times 10 = 540 \text{ gpm}$ 180 ml

⑤ $54 \times 10 = 540 \text{ gpm}$ 120 ml

SAMPLE LOCATION: TTC Industries, Inc. Lake Charles
 CITY OR INDUSTRY NAME AND LOCATION LA 70007
 DATE: April 6, 1982 April 7, 1982
 BY: [Signature] END SAMPLING
 OUTFALL NO.: 111 SAMPLE NO.: _____

SAMPLING CREW SUPERVISORS SIGNATURES:

CREW A Linda Korn, Bruce Hammett
 CREW B Pat Hammett, David Brightbill
 CREW C Bill Sarco, Dirk Kavanagh

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	0948	1315	1557	0731	2207	0055	0358	0654				
FLOW <u>gpm</u>	00000000	530	520	500	540	540	520	520	540				
TEMPERATURE °	00000000												
PH	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
BOD-SOLIDS-COLOR-TURBIDITY	SAMPLE ON WET ICE												
SULFATE-FLUORIDE-CHLORIDE	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
METALS <u>necessary</u>	5ml. concentrated HNO ₃ per liter	120ml	120ml	15ml	120ml	120ml	120ml	120ml	120ml	120ml			
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CeSO ₄ per liter H ₃ PO ₄ to pH 4.0 @ ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40mg. HgCl ₂ per liter @ place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR-initial each block	00000000	LSK	LSK	RAA	RAA	RAA	DBB	DDK	DDK				

SAMPLE LOCATION TTOT ind
CITY OR INDUSTRY NAME AND LOCATION

OBSERVATIONS & REMARKS FOR PERIOD BEGINNING 0905 hrs. ON 6 Apr, 19 82

SHIFT
SUPERVISOR:
SIGN YOUR
REMARKS!!!

OUTFALL NO.: 118 SAMPLE NO.: _____

~~Get flow in control room~~

~~3550 gpm (spec)~~

Read flow directly from chart in 2

#4 $\frac{64-59}{59} \times 100 = 8.4\%$ $8.4\% \text{ of } 120 = 9.6$ 110 ml sample ^{PLA}

#5 110 ml PLA

#7 $\frac{64-14}{14} \times 100 = \frac{50}{14}$ $.22 \times 120 = 26.40$ ml _{4 ft}

$\frac{14}{64} \quad .215$
 $64 \overline{) 14.0}$
 $\underline{128}$
 120
 $\underline{64}$
 560
 $\underline{576}$
 120
 $\underline{22}$
 24
 $\underline{24}$
 26.40

SAMPLE LOCATION: PPG Industries Inc, Lake Charles
 CITY OR INDUSTRY NAME AND LOCATION
 DATE: 4-6-82 4-7-82 LA-0000761
 START SAMPLING END SAMPLING
 OUTFALL NO.: 118 SAMPLE NO.: _____

SAMPLING CREW SUPERVISORS SIGNATURES:

CREW A

CREW B

CREW C

Hammatt, Korn
Hammatt, Brizbill
Spice, Fawcett

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	0905	1252	1539	1908	2137	0004	0324	0620				
FLOW <u>7</u> units	00000000	64	63	63	59	58	58	14	14				
TEMPERATURE °	00000000												
H	00000000												
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
ADD-SOLIDS-COLOR-TURBIDITY	SAMPLE ON	120ml	120ml	120ml	110ml	110ml	110ml	26ml	26ml				
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml concentrated H ₂ SO ₄ per liter												
TOC	2ml concentrated H ₂ SO ₄ per liter H ₂ O ₂	120ml	120ml	120ml	110ml	110ml	110ml	26ml	26ml				
METALS	5ml concentrated HNO ₃ per liter												
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40 mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR-initial each block	00000000	LSK	LSL	PKA	PKA	PKA	DBB	JDK	JDK				

SAMPLE LOCATION: 114 MD Lake Wales

SAMPLING CREW SUPERVISORS SIGNATURES:

DATE: 4-82

CITY OR INDUSTRY NAME AND LOCATION

START SAMPLING

END SAMPLING

OUTFALL NO.: 024 SAMPLE NO.: _____

CREW A _____

CREW B _____

CREW C _____

take pH, etc 1/shift one time only

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	1130											
FLOW _____ units	00000000												
TEMPERATURE °	00000000	24.6											
	00000000	8.24											
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
BOD-SOLIDS-COLOR-TURBIDITY	SAMPLE ON												
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
METALS	5ml. concentrated HNO ₃ per liter												
COLIFORM-One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
JLFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS-nitrogen and phosphorus	40 mg HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-Initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR-initial each block	00000000	LSK											
conductivity	mmhos	.919											

SAMPLE LOCATION: YFG Ind - Lake Charles

SAMPLING CREW SUPERVISORS SIGNATURES.

DATE: 4-8-82

CITY OR INDUSTRY NAME AND LOCATION

START SAMPLING

END SAMPLING

OUTFALL NO.: 005

SAMPLE NO.: _____

CREW A

Hammatt, Kori

CREW B

CREW C

one time only

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000	1140											
FLOW _____ units	00000000												
TEMPERATURE °	00000000	28.0											
	00000000	7.15											
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
BOD - SOLIDS - COLOR - TURBIDITY	SAMPLE ON												
SULFATE - FLUORIDE - CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
METALS	5ml. concentrated HNO ₃ per liter												
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
NUTRIENTS - nitrogen and phosphorus	40mg. HgCl ₂ per liter & place on ice												
PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY - Initial test sample	Crew A return to lab. on collection												
BIOASSAY - Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERVISOR - initial each block	00000000	LSR											
conductivity mmo		.86											

SAMPLE LOCATION: 7101 INDUSTRIES Lake County
CITY OR INDUSTRY NAME AND LOCATION

DATE: 6-82
AT SAMPLING

OUTFALL NO.: 001

SAMPLE NO.:

SAMPLING CREW SUPERVISORS SIGNATURES:

CREW A

CREW B

CREW C

one time grab

		A L I Q U O T S											
FIELD DATA	PRESERVATIVES	1	2	3	4	5	6	7	8	9	10	11	12
TIME (hours)	00000000		1345										
FLOW <u>units</u>	00000000												
TEMPERATURE °C	00000000		24.9										
	00000000		7.44										
DISSOLVED O ₂ mg/l.	00000000												
RESIDUAL CHLORINE	00000000												
SAMPLES	00000000	000	000	000	000	000	000	000	000	000	000	000	000
BOD-SOLIDS-COLOR-TURBIDITY	SAMPLE ON												
SULFATE-FLUORIDE-CHLORIDE	WET ICE												
OIL and GREASE - One grab sample per shift	2ml. concentrated H ₂ SO ₄ per liter and place on ice												
COD	2ml. concentrated H ₂ SO ₄ per liter												
TOC	2ml. concentrated H ₂ SO ₄ per liter												
METALS	5ml. concentrated HNO ₃ per liter												
COLIFORM - One grab sample per shift	Return to lab. in prepared container on ice												
PHENOL	1.0 gram. CuSO ₄ per liter H ₃ PO ₄ to pH 4.0 & ice												
SULFIDE	2ml. one molar ZnAc per liter												
CYANIDE	NaOH to pH 10 (approx. 2ml. per liter)												
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PESTICIDES	Return to lab. in prepared container on ice												
BIOASSAY-initial test sample	Crew A return to lab. on collection												
BIOASSAY-Full size sample	Crew C collect last hour and return to lab.												
MASS SPEC. SAMPLE	Return to lab. in container provided												
SUPERISOR-initial. each block	00000000												
Conductivity	mmhos		13.8										

4/22/82

COMPLIANCE MONITORING

ed: April 6 and 7, 1982

Date Received: April 7, 1982

Company PPG, Lake Charles, Louisiana

E R	ANALYZED VALUE	ANALYST	DATE/TIME	METHOD
-93 ✓	1.0	ESS	4/7/82 1 PM	Membrane Electrode
-127	*0.6	"	"	"
-93 ✓	22.0	MSH	4/7/82	Gravimetric
-127 ✓	240.0	"	"	"
-89 ✓	2.0	"	"	"
-92 ✓	4.0	"	"	"
-95 ✓	16.0	"	"	"
-94 ✓	**9.4	"	"	Astro Ecology Auto Analyzer
-128 ✓	455.0	"	"	"
-91 ✓	**0.54	ESS/FSM	4/7/82	A. A. Graphite Furnace
-87 ✓	0.0080	"	4/12/82	"
-88 ✓	1.89	FSM	4/13/82	Hydride System A. A. Graphite Furnace
-90 ✓	2.05	"	"	"
decrease interference.				