



Chevrolet · Pontiac · Canada Group  
Headquarters  
General Motors Corporation  
30001 Van Dyke Avenue  
Warren, Michigan 48090-9020

March 6, 1985

Mr. D. O. Cummins  
Groundwater Quality Division  
Michigan Department of Natural Resources  
Region III  
Box 30028  
Lansing, MI 48909

Dear Dan,

Enclosed please find the results of the analyses performed on groundwater samples collected at the Linden Road Landfill site on August 2 and 3, 1984. This sampling at the site represents the fourth quarter sampling requirement. During this sampling, each sample for **metals analysis was filtered** in the field and acidified. Present during the sampling was Mr. Mark Valacek from the Genesee County Health Department. Samples were split with Mr. Valacek for subsequent analysis by the Michigan DNR labs.

For this fourth sampling at the Linden Road site a full analysis was performed on each well sample obtained. From the analysis, a concentration of 26 ppb of methylene chloride was detected in monitor well 8d, and a concentration of 30 ppb of N-Nitrosodiphenylamine was detected in monitor well 2s. Both quantities are unexplainable, as past samplings of these wells have shown only non-detectable levels of these compounds. Please recall from the April 25, 1984 sampling of monitor well 6s, a quantity of 24 ppb of trans-1/2 dichloroethene was reported but was not detected during the August sampling of 6s. These trace contaminations are being investigated to determine if sampling or further handling and analysis of the samples is introducing the problem.

As a result of this fourth quarterly sampling at the site, our commitment to conduct the monitoring for a one year time period is complete. It is our proposal to reduce the number of wells sampled to 6, and monitor on an annual basis. The selected wells would be 1d, 3d, 6d, 4d, 2s and 8d. Results from this annual sampling will be forwarded to your office should you so desire. Please review this latest set of data and advise this office of your position as soon as possible.

Mr. D. O. Cummins  
Michigan Department of Natural Resources  
March 6, 1985  
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Should you have any questions or concerns, please contact  
either Reg Sobczynski or myself at (313) 575-5663.

Sincerely

CHEVROLET-PONTIAC-CANADA GROUP  
General Motors Corporation

*T. M. Strauss*

T. M. Strauss  
Environmental Engineering  
Facilities Planning

0769R

cc: M. Valacek

LINDEN ROAD OBSERVATION WELL WATER TABLE LOG

DATE: 8/2 : 8/3/84

WELL NO.	CASING ELE. FT.-M.S.L.	DEPTH TO WATER FT.	WATER TABLE ELE. FT.-M.S.L.	REMARKS
1-D	754.35	33	721.35	
2-D	761.27	46	715.27	
3-D	766.70	47	719.70	
8/2 4-D	770.31	51	719.31	
8/2 5-D	761.71	44	717.71	
8/2 6-D	746.77	28.5	718.27	
7-D	762.56	44	718.56	
8-D	767.05	49	718.05	No Oil ? Grease No PCB Sample
8/2 9-D	765.04	32	733.04	
8/2 10-D	769.32	45.2	724.12	No Oil ? Grease
8/2 11-D	757.06	35.2	721.86	
1-S	763.58	9.5	754.08	
2-S	754.39	18	736.39	
8/2 3-S	761.56	23.5	738.06	Metals ? Volatiles Only
4-S	764.20	No Sample	-	
5-S	768.17	No Sample	-	
8/2 6-S	755.37	12.7	742.67	No Oil ? Grease No PCB Sample
*	*	*	*	*
*	*	*	*	*
*	*	*	*	*



CHEVROLET CENTRAL LABORATORIES  
30007 VAN DYKE  
WARREN, MICH. 48090

◆◆◆ MP4596 ◆◆◆ FLINT MFG.  
GROUNDWATER WELL SAMPLES FROM LINDEN ROAD.  
FOURTH QUARTER SAMPLING.  
FRIPOL SAMPLES TAKEN.

TEST	8- 3-1984 1D	8- 3-1984 1S	8- 2-1984 10D	8- 2-1984 11D
PH ( )	9.90000	8.01000	10.24000	10.15000
TSS (PPM)	41.00000	664.00000	1371.00000	128.00000
DIL (PPM)	( 5.00000)	( 5.00000)	-	( 5.00000)
PHEN (PPB)	( 4.00000)	( 4.00000)	( 4.00000)	( 6.00000)
PCB (PPB)	( .27000)	.26000	( .19000)	( .10000)
NO3 (PPM)	.22000	2.58000	1.30000	( .10000)
CL (PPM)	4.00000	6.10000	4.00000	6.10000
CN (PPB)	( 20.00000)	( 20.00000)	( 20.00000)	( 20.00000)
F (PPM)	1.40000	.25000	2.15000	1.62000
SD4 (PPM)	2.80000	370.00000	219.00000	16.50000
AS (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
BA (PPM)	( .05000)	( .05000)	( .05000)	( .05000)
CD (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
CA (PPM)	88.00000	180.00000	92.00000	97.00000
CR (PPM)	( .05000)	( .05000)	( .05000)	( .05000)
CU (PPM)	.03000	.02000	.03000	.02000
FE (PPM)	.06000	.05000	.03000	.10000
PB (PPM)	( .00500)	( .00500)	( .00500)	.00600
MG (PPM)	9.02000	87.30000	.32000	5.28000
HG (PPB)	( .40000)	( .40000)	( .40000)	( .40000)
NI (PPM)	( .04000)	( .04000)	( .04000)	( .04000)
SE (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
AG (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
NA (PPM)	46.00000	26.00000	32.00000	52.00000
ZN (PPM)	1.10000	1.00000	.10000	.09000

◆◆◆ MP4596 ◆◆◆ FLINT MFG.

TEST	8- 3-1984 2D	8- 3-1984 2S	8- 3-1984 3D	8- 2-1984 3S
PH ( )	9.76000	8.26000	9.52000	-
TSS (PPM)	52.00000	20.00000	49.00000	-
DIL (PPM)	( 5.00000)	( 5.00000)	( 5.00000)	-
PHEN (PPB)	( 4.00000)	( 4.00000)	27.50000	-
PCB (PPB)	.10000	( .10000)	.12000	-
NO3 (PPM)	3.40000	4.00000	2.21000	-
CL (PPM)	7.10000	7.10000	1.00000	-
CN (PPB)	( 20.00000)	( 20.00000)	( 20.00000)	-
F (PPM)	1.40000	.59000	1.00000	-
SD4 (PPM)	21.10000	45.50000	21.80000	-
AS (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
BA (PPM)	( .05000)	.08300	.09800	.16700
CD (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
CA (PPM)	88.00000	110.00000	90.00000	210.00000
CR (PPM)	( .05000)	( .05000)	( .05000)	( .05000)
CU (PPM)	.03000	.03000	.04000	.04000
FE (PPM)	.04000	.05000	.06000	.07000
PB (PPM)	( .00500)	( .00500)	( .00500)	( .00500)
MG (PPM)	16.90000	50.20000	45.50000	41.40000
HG (PPB)	( .40000)	( .40000)	( .40000)	.40000
NI (PPM)	( .04000)	( .04000)	( .04000)	( .04000)
SE (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
AG (PPM)	( .01000)	( .01000)	( .01000)	( .01000)
NA (PPM)	64.00000	18.00000	42.00000	26.00000
ZN (PPM)	.07000	.30000	.16000	1.40000

TEST	8- 2-1984 4D	8- 2-1984 5D	8- 2-1984 6D	8- 2-1984 6S
PH ( )	9.98000	9.61000	9.37000	7.30000
TSS (PPM)	24.00000	78.00000	36.00000	87.00000
OIL (PPM) (	5.00000)	( 5.00000)	( 5.00000)	-
PHEN(PPB) (	4.00000)	( 4.00000)	( 4.00000)	20.00000
PCB (PPB) (	.10000)	.13000	( .10000)	-
NO3 (PPM)	.50000	3.00000	( .10000)	.75000
CL (PPM)	2.00000	8.10000	18.20000	9.10000
CN (PPB) (	20.00000)	( 20.00000)	( 20.00000)	( 20.00000)
F (PPM)	1.84000	1.60000	1.02000	( .20000)
SD4 (PPM)	1.20000	29.00000	30.90000	59.00000
AS (PPM) (	.01000)	( .01000)	( .01000)	( .01000)
BA (PPM) (	.05000)	.05300	( .05000)	.25800
CD (PPM) (	.01000)	( .01000)	( .01000)	( .01000)
CA (PPM)	92.00000	110.00000	100.00000	370.00000
CR (PPM) (	.05000)	( .05000)	( .05000)	( .05000)
CU (PPM)	.04000	.03000	.02000	.03000
FE (PPM)	.03000	.07000	.03000	.10000
PB (PPM) (	.00500)	.01000	( .00500)	( .00500)
MG (PPM)	1.16000	10.60000	34.10000	66.70000
H5 (PPB) (	.40000)	( .40000)	( .40000)	.40000
NI (PPM) (	.04000)	( .04000)	( .04000)	( .04000)
SE (PPM) (	.01000)	( .01000)	( .01000)	( .01000)
AG (PPM) (	.01000)	( .01000)	( .01000)	( .01000)
NA (PPM)	44.00000	58.00000	46.00000	72.00000
ZN (PPM)	.22000	2.00000	.04000	5.40000

TEST	8- 3-1984 7D	8- 3-1984 8D	8- 2-1984 9D
PH ( )	9.69000	9.63000	8.65000
TSS (PPM)	27.00000	914.00000	959.00000
OIL (PPM) (	5.00000)	-	( 5.00000)
PHEN(PPB) (	4.00000)	4.00000	( 4.00000)
PCB (PPB) (	.10000)	-	( .11000)
NO3 (PPM)	1.00000	1.23000	1.11000
CL (PPM)	3.00000	3.00000	4.00000
CN (PPB) (	20.00000)	( 20.00000)	( 20.00000)
F (PPM)	1.50000	1.15000	.93000
SD4 (PPM)	17.00000	64.00000	122.00000
AS (PPM) (	.01000)	( .01000)	( .01000)
BA (PPM)	.05700	.07500	.11800
CD (PPM) (	.01000)	.01000	( .01000)
CA (PPM)	110.00000	95.00000	110.00000
CR (PPM) (	.05000)	( .05000)	( .05000)
CU (PPM)	.02000	.03000	.02000
FE (PPM)	.04000	.09000	.10000
PB (PPM) (	.00500)	( .00500)	.00600
MG (PPM)	19.60000	12.10000	11.40000
H5 (PPB) (	.40000)	( .40000)	( .40000)
NI (PPM) (	.04000)	( .04000)	( .04000)
SE (PPM) (	.01000)	( .01000)	( .01000)
AG (PPM) (	.01000)	( .01000)	( .01000)
NA (PPM)	44.00000	50.00000	32.00000
ZN (PPM)	.05000	.19000	.09000

PPM = MG/L FOR WATER - MG/KG FOR SLUDGE  
 PPB = UG/L FOR WATER - UG/KG FOR SLUDGE  
 NOT DETECTED = ( )

ANALYSIS BY

S ANDERSON-*SA* L CAMILLERI----- J CHEH-*rc* C KOKKO-*ck* A OLESZKO-*AO*

M SULEK----- J. ROELANDT, SUPERVISOR

LAB NUMBER - 784  
 PLANT -FLINT MFG  
 OUTFALL -1-S  
 SAMPLE DATE - 840803

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

## BASE\_NEUTRALS

COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

## MISCELLANEOUS

PARAMETER	CONCENTRATION (PPB)
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NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

LAB NUMBER - 785  
 PLANT - FLINT MFG  
 OUTFALL - 2-S  
 SAMPLE DATE - 840803

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE_NEURIBALS COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -30
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C CENTRAL LABORATORIES

LAB NUMBER - 786  
 PLANT -FLINT MFG  
 OUTFALL -3-S  
 SAMPLE DATE - 840802

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL)ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

NOT REQUIRED

LAB NUMBER - 786

CONTINUED

BASE NEUTRALS  
NOT REQUIRED

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

LAB NUMBER - 787  
 PLANT -FLINT MFG  
 OUTFALL -6-S  
 SAMPLE DATE - 840802

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE_NEUIRBLS COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C CENTRAL LABORATORIES

LAB NUMBER - 788  
 PLANT -FLINT MFG  
 OUTFALL -1-D  
 SAMPLE DATE - 840803

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL)ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## BENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

## BASE\_NEUTRALS

COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C CENTRAL LABORATORIES

LAB NUMBER - 789  
 PLANT -FLINT MFG  
 OUTFALL -2-D  
 SAMPLE DATE - 840803

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

## BASE NEURALS

COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C CENTRAL LABORATORIES

LAB NUMBER - 790  
 PLANT -FLINT MFG  
 OUTFALL -3-D  
 SAMPLE DATE - 840803

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

## BASE NEUTRALS

COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

## MISCELLANEOUS

PARAMETER	CONCENTRATION (PPB)
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NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

LAB NUMBER - 791  
 PLANT - FLINT MFG  
 OUTFALL - 4-D  
 SAMPLE DATE - 840802

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

## BASE\_NEURALS

COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLORO BENZENE	ND @ -20
M-DICHLORO BENZENE	ND @ -20
P-DICHLORO BENZENE	ND @ -20
3/3'-DICHLORO BENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLORO BENZENE	ND @ -20
HEXACHLORO BUTADIENE	ND @ -20
HEXACHLORO CYCLOPENTADIENE	ND @ -20
HEXACHLORO ETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITRO BENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLORO BENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C-CENTRAL LABORATORIES

LAB NUMBER - 792  
 PLANT -FLINT MFG  
 OUTFALL -5-D  
 SAMPLE DATE - 840802

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## BHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE_NEUTRALS COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -20
ISOPHORONE	ND @ -100
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C CENTRAL LABORATORIES

LAB NUMBER - 793  
 PLANT -FLINT MFG  
 OUTFALL -6-D  
 SAMPLE DATE - 840802

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL)ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE NEUTRALS

<u>COMPOUND</u>	<u>CONCENTRATION (PPB)</u>
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO(A)PYRENE	ND @ -20
BENZO(B)FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO(K)FLUORANTHENE	ND @ -20
BIS(2-CHLOROETHOXY)METHANE	ND @ -20
BIS(2-CHLOROETHYL)ETHER	ND @ -20
BIS(2-CHLOROISOPROPYL)ETHER	ND @ -20
BIS(2-ETHYLHEXYL)PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO(1/2/3-C/D)PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUSPARAMETERCONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

LAB NUMBER - 794  
 PLANT - FLINT MFG  
 OUTFALL - 7-D  
 SAMPLE DATE - 840803

## DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

## VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBEZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLORDETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMDICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLORDETHANE	ND @ -20
1/2-DICHLORDETHANE	ND @ -20
VINYLDENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

## PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-D-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE NEUTRALS COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

C-P-C CENTRAL LABORATORIES

LAB NUMBER - 795  
 PLANT -FLINT MFG  
 OUTFALL -8-D  
 SAMPLE DATE - 840803

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL)ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	26
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE NEUTRALS

<u>COMPOUND</u>	<u>CONCENTRATION (PPB)</u>
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO(A)PYRENE	ND @ -20
BENZO(B)FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO(K)FLUORANTHENE	ND @ -20
BIS(2-CHLOROETHOXY)METHANE	ND @ -20
BIS(2-CHLOROETHYL)ETHER	ND @ -20
BIS(2-CHLOROISOPROPYL)ETHER	ND @ -20
BIS(2-ETHYLHEXYL)PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
0-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO(1/2/3-C/D)PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUSPARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

C-F-C CENTRAL LABORATORIES

LAB NUMBER - 796  
 PLANT -FLINT MFG  
 OUTFALL -9-D  
 SAMPLE DATE - 840803

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL)ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE NEUTRALS

<u>COMPOUND</u>	<u>CONCENTRATION (PPB)</u>
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO(A)PYRENE	ND @ -20
BENZO(B)FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO(K)FLUORANTHENE	ND @ -20
BIS(2-CHLOROETHOXY)METHANE	ND @ -20
BIS(2-CHLOROETHYL)ETHER	ND @ -20
BIS(2-CHLOROISOPROPYL)ETHER	ND @ -20
BIS(2-ETHYLHEXYL)PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
0-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO(1/2/3-C/D)PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUSPARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

## C-P-C CENTRAL LABORATORIES

LAB NUMBER - 797  
 PLANT -FLINT MFG  
 OUTFALL -10-D  
 SAMPLE DATE - 840802

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS(CHLOROMETHYL)ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDIENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASE NEUTRALS

<u>COMPOUND</u>	<u>CONCENTRATION (PPB)</u>
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO(A)PYRENE	ND @ -20
BENZO(B)FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO(K)FLUORANTHENE	ND @ -20
BIS(2-CHLOROETHOXY)METHANE	ND @ -20
BIS(2-CHLOROETHYL)ETHER	ND @ -20
BIS(2-CHLOROISOPROPYL)ETHER	ND @ -20
BIS(2-ETHYLHEXYL)PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
0-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/2-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO(1/2/3-C/D)PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS

<u>PARAMETER</u>	<u>CONCENTRATION (PPB)</u>
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NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL

LAB NUMBER - 798  
 PLANT -FLINT MFG  
 OUTFALL -11-D  
 SAMPLE DATE - 840802

DESCRIPTION

24 HOUR COMPOSITE SAMPLE FOR SEMI-ANNUAL ANALYSIS

X  
 X  
 X  
 X

VOLATILES

COMPOUND	CONCENTRATION (PPB)
ACROLEIN	ND @ -100
ACRYLONITRILE	ND @ -100
BENZENE	ND @ -20
BIS (CHLOROMETHYL) ETHER	ND @ -20
BROMOFORM	ND @ -20
CARBON TETRACHLORIDE	ND @ -20
CHLOROBENZENE	ND @ -20
CHLORODIBROMOMETHANE	ND @ -20
CHLOROETHANE	ND @ -20
2-CHLOROETHYL VINYL ETHER	ND @ -100
CHLOROFORM	ND @ -20
BROMODICHLOROMETHANE	ND @ -20
DICHLORODIFLUOROMETHANE	ND @ -20
1/1-DICHLOROETHANE	ND @ -20
1/2-DICHLOROETHANE	ND @ -20
VINYLDENE CHLORIDE	ND @ -20
1/2-DICHLOROPROPANE	ND @ -20
1/3-DICHLOROPROPYLENE	ND @ -20
ETHYLBENZENE	ND @ -20
METHYL BROMIDE	ND @ -20
METHYL CHLORIDE	ND @ -20
METHYLENE CHLORIDE	ND @ -20
1/1/2/2-TETRACHLOROETHANE	ND @ -20
TETRACHLOROETHYLENE	ND @ -20
TOLUENE	ND @ -20
TRANS-1/2-DICHLOROETHENE	ND @ -20
1/1/1-TRICHLOROETHANE	ND @ -20
1/1/2-TRICHLOROETHANE	ND @ -20
TRICHLOROETHYLENE	ND @ -20
TRICHLOROFLUOROMETHANE	ND @ -20
VINYL CHLORIDE	ND @ -20

PHENOLS

COMPOUND	CONCENTRATION (PPB)
2-CHLOROPHENOL	ND @ -20
2/4-DICHLOROPHENOL	ND @ -20
2/4-DIMETHYLPHENOL	ND @ -20
4/6-DINITRO-O-CRESOL	ND @ -20
2/4-DINITROPHENOL	ND @ -20
2-NITROPHENOL	ND @ -20
4-NITROPHENOL	ND @ -20
4-CHLORO-3-METHYLPHENOL	ND @ -20
PENTACHLOROPHENOL	ND @ -20
PHENOL	ND @ -20
2/4/6-TRICHLOROPHENOL	ND @ -20

BASELINE/IBALS COMPOUND	CONCENTRATION (PPB)
ACENAPHTHENE	ND @ -20
ACENAPHTHALENE	ND @ -100
ANTHRACENE	ND @ -20
BENZIDINE	ND @ -20
1/2-BENZANTHRACENE	ND @ -100
BENZO (A) PYRENE	ND @ -20
BENZO (B) FLUORANTHENE	ND @ -20
1/12-BENZOPERYLENE	ND @ -100
BENZO (K) FLUORANTHENE	ND @ -20
BIS (2-CHLOROETHOXY) METHANE	ND @ -20
BIS (2-CHLOROETHYL) ETHER	ND @ -20
BIS (2-CHLOROISOPROPYL) ETHER	ND @ -20
BIS (2-ETHYLHEXYL) PHTHALATE	ND @ -20
4-BROMOPHENYL PHENYL ETHER	ND @ -20
BUTYL BENZYL PHTHALATE	ND @ -20
2-CHLORONAPHTHALENE	ND @ -20
4-CHLOROPHENYL PHENYL ETHER	ND @ -20
CHRYSENE	ND @ -100
1/2-5/6-DIBENZANTHRACENE	ND @ -100
O-DICHLOROBENZENE	ND @ -20
M-DICHLOROBENZENE	ND @ -20
P-DICHLOROBENZENE	ND @ -20
3/3'-DICHLOROBENZIDINE	ND @ -20
DIETHYL PHTHALATE	ND @ -20
DIMETHYL PHTHALATE	ND @ -20
DI-N-BUTYL PHTHALATE	ND @ -20
2/4-DINITROTOLUENE	ND @ -20
2/6-DINITROTOLUENE	ND @ -20
DIOCTYL PHTHALATE	ND @ -20
1/3-DIPHENYLHYDRAZINE	ND @ -20
FLUORANTHENE	ND @ -20
FLUORENE	ND @ -20
HEXACHLOROBENZENE	ND @ -20
HEXACHLOROBUTADIENE	ND @ -20
HEXACHLOROCYCLOPENTADIENE	ND @ -20
HEXACHLOROETHANE	ND @ -20
INDENO (1/2/3-C/D) PYRENE	ND @ -100
ISOPHORONE	ND @ -20
NAPHTHALENE	ND @ -20
NITROBENZENE	ND @ -20
N-NITROSODIMETHYLAMINE	ND @ -20
N-NITROSODI-N-PROPYLAMINE	ND @ -20
N-NITROSODIPHENYLAMINE	ND @ -20
PHENANTHRENE	ND @ -20
PYRENE	ND @ -20
1/2/4-TRICHLOROBENZENE	ND @ -20

MISCELLANEOUS  
PARAMETER

CONCENTRATION (PPB)

NONE REQUIRED

ND @ = NOT DETECTED AT INDICATED LEVEL  
SEARCH COMPLETE

(e) "Sanitary waste" means treated or untreated wastes that contain human metabolic wastes and domestic wastes.

(f) "Sludge" means concentrated residues generated or produced by industrial activities or by the treatment of industrial or sanitary wastes.

(g) "Solid waste" means refuse, garbage, rubbish, ashes, or other materials in solid form.

(h) "Toxic material" means a substance that is or may become harmful to plant life, animal life, or to food chains when the substance is present in sufficient concentrations or combinations.

(i) "Usable aquifer" means an aquifer, or that portion of an aquifer or aquifer system, that is capable of providing water in sufficient quantity and of satisfactory quality, as determined from the hydrogeological study required by rule 2207, to serve 1 or more protected uses. Usable aquifers do not include aquifers used for mineral, oil, or gas production, as regulated by Act No. 315 of the Public Acts of 1969, as amended, being §319.211 et seq. of the Michigan Compiled Laws, and known as the mineral well act, and Act No. 61 of the Public Acts of 1939, as amended, being §319.1 et seq. of the Michigan Compiled Laws, the act which regulates oil and gas in Michigan.

(j) "Well" means a properly designed and constructed hydraulic structure that permits measurement or withdrawal of ground water from an aquifer.

R 323.2204. Protected uses.

→ Rule 2204. All ground waters of the state, in usable aquifers and of a quality suitable for use as individual, public, industrial, or agricultural water supply, shall be protected for these uses.

R 323.2205. Nondegradation of ground waters in usable aquifers; permissible and prohibited discharges.

→ Rule 2205. (1) The quality of ground waters in all usable aquifers shall not be degraded from local background ground water quality as the result of a discharge, except as provided in rule 2210.

(2) Discharges into ground waters may be made, consistent with the requirements of the act and applicable rules, if necessary measures are taken to prevent the degradation of ground waters in usable aquifers.

The following are such measures:

(a) Proper waste water treatment.

(b) Proper facility site selection.

(c) Controlling the zone of saturation at the site.

(d) Providing percolation and seepage barriers.

(e) Use of underdrainage.

(f) Containment of the discharge within the boundaries of the operation or activity defined by the hydrogeological study required by rule 2207.

(3) Materials at concentrations that exceed the maximum contaminant levels for inorganic and organic chemicals specified in the national interim primary drinking water regulations, 40 C.F.R. §§141.11 and 141.12, which are promulgated pursuant to the safe drinking water act 42 U.S.C. §300f, shall not be discharged into ground waters in usable aquifers even in those cases where the local background ground water levels for these materials exceed the specified levels.

R 323.2206. Regulation of discharges.

Rule 2206. A person shall not discharge into the ground waters any substance that is, or may become, injurious to the public health, safety, or welfare, or to the domestic, commercial, industrial, agricultural, recreational, or other uses which are being or may be made of the ground waters. Discharges into ground waters of the state are regulated by permits issued in accordance with sections 7(1) and 8(b) of the act.

R 323.2207. Determination of existing hydrogeological conditions; report.

Rule 2207. (1) A determination of existing hydrogeological conditions or study, including existing ground water quality, shall be made in the vicinity of proposed or existing discharges.

(2) The person responsible for the discharge shall provide the hydrogeological study.

(3) At each discharge site, at least 1 hydrogeological study, or its equivalent, shall be required to develop the discharge permit.

(4) For existing permitted discharges, a hydrogeological study, or its equivalent, shall be required at the time of permit renewal when an approved or presently acceptable hydrogeological study is not available. The continued permitting of an existing discharge shall be contingent on satisfactory hydrogeological conditions at the site, as determined by the hydrogeological study. The commission shall provide sufficient time for the hydrogeological study to be developed by the person responsible for the discharge.

(5) The following are the purposes of a hydrogeological study:

(a) To establish the impact that a discharge may have on ground water contained in usable aquifers.

(b) To determine, through interpretation of available and collected data, the acceptability of discharging at the site.

(c) To determine existing ground water quality.

(d) To determine local background ground water quality.

(e) To define engineering modifications that may make the discharge acceptable.

(f) To define a proposed ground water monitoring program.

(g) To define the usable aquifers.

(h) To define the areal and vertical extent of the site earth materials that assimilate and transmit the discharge.

(6) The acceptance of a site shall be determined on the basis of the hydrogeological study and consideration of proper engineering modifications.

(7) One of the following criteria shall be considered in determining whether an aquifer is usable:

→ (a) Whether an aquifer is presently serving a protected use.

(b) Whether an aquifer, as defined by the hydrogeological study, can potentially serve the protected uses.

(c) Whether a well can be constructed in the aquifer meeting the requirements of part 127 of Act No. 368 of the Public Acts of 1978, as amended, being §333.12701 et seq. of the Michigan Compiled Laws, an act relating to water well drilling, and Act No. 399 of the Public Acts of 1976, as amended, being §323.1001 et seq. of the Michigan Compiled Laws and known as the safe drinking water act.

(8) Hydrogeological studies shall be prepared by or under the direction of a qualified ground water or engineering geologist or a registered professional engineer with assistance from experts in related fields, such as land surveying, environmental science, and soil science.