MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL LABORATORY

REPORT Surface Water Quality Div.
TO District #14
39890 Seven Mile Road
Livonia, MI 48152
ATTEN ERIC SUNDAY

LABORATORY WORK ORDER # 95-06-111
WORK ID MCLOUTH - GIBRALTAR
P.O. # ** COST $ 3521.34
RECEIVED 06/14/95 CLIENT SWQ SE
REPORTED _____ NUMBER OF SAMPLES 5
LAB CONTACT OR IN GC MATRIX WATER

RECEIVED
JUL 17 1995
SURFACE WATER QUALITY DIVISION
SOUTHEAST MICHIGAN DISTRICT OFFICE

TEST / UNITS	1	2	3	4
Silver by Furnace ug/l	K 0.5	K 0.5	K 0.5	K 0.5
Aluminium in Water ug/l	175	177	148	213
Alkalinity of Water mg CaCO3/l	237			
Arsenic by Furnace ug/l	K 5.0 DM	K 5.0 DM	K 5.0 DM	K 5.0 DM
Barium in Water ug/l	16	16	16	16
Beryllium in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
BOD 5 Day Carb mg/l	12	16		
Calcium in Water mg/l	38	38.3	39.2	38.3
Cadmium by Furnace ug/l	K 0.2	0.7	K 0.2	K 0.2
Chloride in Water mg/l	91			
Cyanide mg/l	K .005			
Cobalt in Water ug/l	K 15	K 15	K 15	K 15
Conductivity of Water umho/cm	1328			
Hex Chromium in Water ug/l	K 5			
Chromium by Furnace ug/l	K 1.0	1.3	K 1.0	K 1.0
Copper by Furnace ug/l	2.6	2.4	1.9	3.1
Iron in Water ug/l	1560	1680	1550	1950
Hardness mg/l	140			
Mercury in Water ug/l	K 0.2	K 0.2	K 0.2	K 0.2

TEST	UNITS	1	2	3	4
Potassium in Water	mg/l	25	28.1	25.1	22.8
Lithium in Water	ug/l	24	30	29	24
Oil & Grease-Water	mg/L		K 10 LH	K 10 LH	K 10 LH
Magnesium in Water	mg/l	11	11.3	11	10.5
Manganese in Water	ug/l	76	82	76	81
Molybdenum in Water	ug/l	K 25	K 25	K 25	K 25
Sodium in Water	mg/l	226	250	229	209
Nickel by Furnace	ug/l	4.3	5.6	4.6	4.2
Nitrate + Nitrite	mg N/l	.21	.17	.18	.20
Ammonia	mg N/l	.02	.06	.06	.06
Kjeldahl Nitrogen	mg N/l	1.80	1.9	1.7	1.81
Lead by Furnace	ug/l	1.0	1.4	1.1	1.8
Phenolics - Manual	ug/l	52.			
Ortho Phosphate	mg P/l	.02	.01	.01	.01
Total Phosphorus	mg P/l	.22	.23	.20	.21
Suspended Solids	mg/l	16	19	15	22
Antimony in Water	ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Selenium in Water	ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Sulfate in Water	mg/l	305			
Titanium in Water	ug/l	K 10	K 10	K 10	K 10
TOC	mg/l	23.	24.	20	20
Vanadium in Water	ug/l	K 10	K 10	K 10	K 10
Zinc in Water	ug/l	9.6	24	5.7	11

Received: 06/14/95 07/13/95 14:58:02

TEST / UNITS	5
Silver by Furnace ug/l	K 0.5
Aluminium in Water ug/l	162
Alkalinity of Water mg CaCO3/l	307
Arsenic by Furnace ug/l	K 5.0 DM
Barium in Water ug/l	12
Beryllium in Water ug/l	K 1.0
BOD 5 Day Carb mg/l	28
Calcium in Water mg/l	40.9
Cadmium by Furnace ug/l	K 0.2
Chloride in Water mg/l	149
Cyanide mg/l	K .005
Cobalt in Water ug/l	K 15
Conductivity of Water umho/cm	2105
Hex Chromium in Water ug/l	K 5
Chromium by Furnace ug/l	K 1.0
Copper by Furnace ug/l	K 1.0
Iron in Water ug/l	3360
Hardness mg/l	153
Mercury in Water ug/l	K 0.2
Potassium in Water mg/l	43.9
Lithium in Water ug/l	49
Magnesium in Water mg/l	12.3
Manganese in Water ug/l	105

TEST / UNITS	5
Molybdenum in Water ug/l	K 25
Sodium in Water mg/l	402
Nickel by Furnace ug/l	7.3
Nitrate + Nitrite mg N/l	K .01
Ammonia mg N/l	.01
Kjeldahl Nitrogen mg N/l	2.6
Lead by Furnace ug/l	K 1.0
Phenolics - Manual ug/l	79.
Ortho Phosphate mg P/l	.02
Total Phosphorus mg P/l	.32
Suspended Solids mg/l	19
Antimony in Water ug/l	K 1.0
Selenium in Water ug/l	K 1.0
Sulfate in Water mg/l	584
Titanium in Water ug/l	K 10
TOC mg/l	34
Vanadium in Water ug/l	K 10
Zinc in Water ug/l	9.2

Report prepared By: Louis C. Wes II

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL LABORATORY

REPORT Surface Water Quality Div.
TO District #14
39890 Seven Mile Road
Livonia, MI 48152
ATTEN ERIC SUNDAY

LABORATORY WORK ORDER # 95-06-112
WORK ID MCLOUTH - GIBRALTAR
P.O. # ** COST $ 4555.17
RECEIVED 06/14/95 CLIENT SWQ SE
REPORTED _____ NUMBER OF SAMPLES 8
LAB CONTACT OR IN GC MATRIX WATER

TEST / UNITS	6	7	8	9
Silver by Furnace ug/l	K 0.5	K 0.5	K 0.5	K 0.5
Aluminium in Water ug/l	106	109	151	282
Arsenic by Furnace ug/l	K 5.0 DM	K 5.0 DM	K 5.0 DM	K 1.0
Barium in Water ug/l	12	12	12	20
Beryllium in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
BOD 5 Day Carb mg/l	25			K 2
Calcium in Water mg/l	43.3	41.6	42.8	34.3
Cadmium by Furnace ug/l	K 0.2	K 0.2	K 0.2	K 0.2
Cyanide mg/l				K .005
Cobalt in Water ug/l	K 15	K 15	K 15	K 15
Chromium by Furnace ug/l	K 1.0	K 1.0	1.2	K 1.0
Copper by Furnace ug/l	K 1.0	K 1.0	K 1.0	4.9
Iron in Water ug/l	2820	3060	3980	414
Hardness mg/l				123
Mercury in Water ug/l	K 0.2	K 0.2	K 0.2	K 0.2
Potassium in Water mg/l	43.9	43.9	43.4	1.95
Lithium in Water ug/l	52	52	50	K 10
Oil & Grease-Water mg/L	K 10 LH	K 10 LH		
Magnesium in Water mg/l	12.5	12.3	12.4	9.1

TEST / UNITS	6	7	8	9
Manganese in Water ug/l	100	102	106	42
Molybdenum in Water ug/l	K 25	K 25	K 25	K 25
Sodium in Water mg/l	396	400	392	17.3
Nickel by Furnace ug/l	6.7	6.8	6.7	K 2.0
Nitrate + Nitrite mg N/l	K .01	K .01	K .01	.42
Ammonia mg N/l	.02	.02	.02	.05
Kjeldahl Nitrogen mg N/l	2.8	2.6	2.6	.40
Lead by Furnace ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Phenolics - Manual ug/l				A K 10
Ortho Phosphate mg P/l	.02	.02	.03	.03
Total Phosphorus mg P/l	.34	.33	.34	.06
Suspended Solids mg/l	24	13		5
Antimony in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Selenium in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Titanium in Water ug/l	K 10	K 10	K 10	K 10
TOC mg/l	37	37	36.	4.0
Vanadium in Water ug/l	K 10	K 10	K 10	K 10
Zinc in Water ug/l	7.9	7.7	12	9.0

TEST / UNITS	10	11	11	13
Silver by Furnace ug/l	K 0.5	K 0.5	K 0.5	K 0.5
Aluminium in Water ug/l	250	288	203	821

TEST / UNITS	10	11	12	13
Alkalinity of Water mg CaCO3/l				91
Arsenic by Furnace ug/l	1.1	1.1	1.3	1.2
Barium in Water ug/l	20	21	19	23
Beryllium in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
BOD 5 Day Carb mg/l	K 2			2
Calcium in Water mg/l	34.5	34.9	32.5	33.7
Cadmium by Furnace ug/l	K 0.2	K 0.2	K 0.2	0.4
Chloride in Water mg/l				22
Cyanide mg/l				K .005
Cobalt in Water ug/l	K 15	K 15	K 15	K 15
Conductivity of Water umho/cm				318
Hex Chromium in Water ug/l				K 5
Chromium by Furnace ug/l	2.5	K 1.0	K 1.0	1.2
Copper by Furnace ug/l	4.8	4.8	4.9	9.8
Iron in Water ug/l	428	454	428	1100
Hardness mg/l				121
Mercury in Water ug/l	K 0.2	K 0.2	K 0.2	K 0.2
Potassium in Water mg/l	1.85	1.91	1.82	1.76
Lithium in Water ug/l	K 10	K 10	K 10	K 10
Oil & Grease-Water mg/L	K 10 LH	K 10 LH	K 10 LH	
Magnesium in Water mg/l	9	9.2	9	8.9
Manganese in Water ug/l	44	41	41	81
Molybdenum in Water ug/l	K 25	K 25	K 25	K 25

TEST UNITS	10	11	12	13
Sodium in Water mg/l	16.6	17.9	15.1	15.6
Nickel by Furnace ug/l	2.2	K 2.0	K 2.0	2.1
Nitrate + Nitrite mg N/l	.42	.40	.42	.28
Ammonia mg N/l	.05	.06	.05	.08
Kjeldahl Nitrogen mg N/l	.39	.43	.37	.69
Lead by Furnace ug/l	K 1.0	K 1.0	K 1.0	2.1
Phenolics - Manual ug/l				13.
Ortho Phosphate mg P/l	.03	.03	.03	.02
Total Phosphorus mg P/l	.06	.06	.06	.11
Suspended Solids mg/l	7	8		27
Antimony in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Selenium in Water ug/l	K 1.0	K 1.0	K 1.0	K 1.0
Sulfate in Water mg/l				19
Titanium in Water ug/l	K 10	K 10	K 10	K 10
TOC mg/l	3.2	3.4	3.7	3.8
Vanadium in Water ug/l	K 10	K 10	K 10	K 10
Zinc in Water ug/l	12	11	8.7	21

Report prepared By: Lauri C Utesch

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL LABORATORY

REPORT Surface Water Quality Div.
TO District #14
39890 Seven Mile Road
Livonia, MI 48152
ATTEN ERIC SUNDAY

LABORATORY WORK ORDER # 95-06-114
WORK ID MCLOUTH - GIBRALTAR
P.O. # ** COST $ 655.95
RECEIVED 06/14/95 CLIENT SWQ SE
REPORTED _____ NUMBER OF SAMPLES 1
LAB CONTACT OR IN GC MATRIX SEDIMENT

TEST UNITS	001 SED
Silver in Sediment mg/kg (wet)	K 0.25
Aluminium in Sediment mg/kg (dry)	3200
Arsenic in Sediment mg/kg (dry)	4.1
Barium in Sediment mg/kg (dry)	24
Beryllium in Sediment mg/kg (dry)	K 0.2
Calcium in Sediment mg/kg (dry)	34400
Cadmium in Sediment mg/kg (dry)	K 2
Cyanide in Sediment mg/kg (dry)	0.4 A
Cobalt in Sediment mg/kg (dry)	5.5
COD in Sediment mg/kg (dry)	42000
Chromium in Sediment mg/kg (dry)	18
Copper in Sediment mg/kg (dry)	65
Iron in Sediment mg/kg (dry)	19100
Mercury in Sediment mg/kg (dry)	K .07
Potassium in Sediment mg/kg (dry)	515
Lithium in Sediment mg/kg (dry)	5
Magnesium in Sediment mg/kg (dry)	7150
Manganese in Sediment mg/kg (dry)	190
Molybdenum in Sediment mg/kg (dry)	K 5

TEST	001 SED
UNITS	
Sodium in Sediment	290
mg/kg (dry)	
Nickel in Sediment	23
mg/kg (dry)	
Kjeldahl Nitrogen in Sed	1100
mg/kg (dry)	
Lead in Sediment	29
mg/kg (dry)	
Phenolics in Sediment	6.1
mg/kg (dry)	
Total Phosphorus-Sediment	650
mg/kg (dry)	
Selenium in Sediment	K .5
mg/kg (dry)	
Strontium in Sediment	55
mg/kg (dry)	
Titanium in Sediment	79
mg/kg (dry)	
Thallium in Sediment	K 1.0
mg/kg (dry)	
Total Solids - Inorganic	68.3
%TS	
Vanadium in Sediment	10
mg/kg (dry)	
Zinc in Sediment	160
mg/kg (dry)	

Report prepared By: Louis C. Utesch

 DNR Laboratory REPORT Work Order # 95-06-114
Received: 06/14/95 Results by Sample

SAMPLE ID 001 SED FRACTION 01D TEST CODE S 8260 NAME Volatile 8260 Sediments
Date & Time Collected 06/13/95 Category

ANALYST WEI
ANALYZED 06/21/95
DILUTION 4.76

Total Solids 17 %

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	REPORTED DETECTION LIMIT
74-87-3	Chloromethane	ND	ST	280
75-01-4	Vinyl chloride	ND	ST	280
74-83-9	Bromomethane	ND	ST	280
75-00-3	Chloroethane	ND	ST	280
75-69-4	Trichlorofluoromethane	ND	ST	280
67-64-1	2-Propanone (Acetone)	ND	ST	1400
60-29-7	Diethyl ether	ND	ST	280
75-35-4	1,1-Dichloroethene	ND	ST	140
75-09-2	Methylene chloride	ND	ST	280
75-15-0	Carbon disulfide	92	T, ST	280
156-60-5	trans-1,2-Dichloroethene	ND	ST	140
1634-04-4	Methyltertbutylether (MTBE)	ND	ST	280
75-34-3	1,1-Dichloroethane	ND	ST	140
78-93-3	2-Butanone (MEK)	ND	ST	280
156-59-2	cis-1,2-Dichloroethene	ND	ST	140
67-66-3	Chloroform	ND	ST	140
71-55-6	1,1,1-Trichloroethane	ND	ST	140
107-06-2	1,2-Dichloroethane	ND	ST	140
71-43-2	Benzene	ND	ST	140
56-23-5	Carbon tetrachloride	ND	ST	140
78-87-5	1,2-Dichloropropane	ND	ST	140
79-01-6	Trichloroethene	ND	ST	140
75-27-4	Bromodichloromethane	ND	ST	140
591-78-6	2-Hexanone	ND	ST	280
10061-01-5	cis-1,3-Dichloropropene	ND	ST	140
10061-02-6	trans-1,3-Dichloropropene	ND	ST	140
108-88-3	Toluene	ND	ST	140
79-00-5	1,1,2-Trichloroethane	ND	ST	140
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	ST	280
124-48-1	Dibromochloromethane	ND	ST	140
106-93-4	1,2-Dibromoethane	ND	ST	140
127-18-4	Tetrachloroethene	ND	ST	140
108-90-7	Chlorobenzene	ND	ST	140
100-41-4	Ethylbenzene	ND	ST	140
108-38-3 & 106-42-3	m & p Xylene	ND	ST	140
75-25-2	Bromoform	ND	ST	140
100-42-5	Styrene	ND	ST	140
95-47-6	o-Xylene	ND	ST	140
79-34-5	1,1,2,2-Tetrachloroethane	ND	ST	140
541-73-1	1,3-Dichlorobenzene	ND	ST	140
106-46-7	1,4-Dichlorobenzene	250	ST	140

SAMPLE ID 001 SED FRACTION 01D TEST CODE S 8260 NAME Volatile 8260 Sediments
Date & Time Collected 06/13/95 Category

95-50-1	1,2-Dichlorobenzene	ND	ST	140

Sample Comments:
MANY LATE UNID PEAKS, RESULTED IN HIGHER DET. LIMITS.

ND = not detected at the specified detection limit.

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL LABORATORY

REPORT Surface Water Quality Div.
TO District #14
39890 Seven Mile Road
Livonia, MI 48152
ATTEN ERIC SUNDAY

LABORATORY WORK ORDER # 95-06-115
WORK ID MCLOUTH - GIBRALTAR
P.O. # ** COST $ 266.70
RECEIVED 06/14/95 CLIENT SWQ SE
REPORTED _____ NUMBER OF SAMPLES 1
LAB CONTACT OR MATRIX SEDIMENT

Report prepared By: Louis C. Utter

RECEIVED
JUL 12 1995
SURFACE WATER QUALITY DIVISION
SOUTHEAST MICHIGAN DISTRICT OFFICE

Received: 06/14/95

DNR Laboratory REPORT
Results by Sample

Work Order # 95-06-115

SAMPLE ID 001 SED

FRACTION 01A TEST CODE S_SC3 NAME Scan 3 Soil/Sediment
Date & Time Collected 06/14/95 Category

ANALYST TAIT
ANALYZED 07/03/95
DILUTION 1

Total Solids 53 %

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	REPORTED DETECTION LIMIT
67-72-1	Hexachloroethane	ND		95
120-82_1	1,2,4-Trichlorobenzene	ND		950
87-68-3	Hexachlorobutadiene	ND		95
91-58-7	2-Chloronaphthalene	ND		2900
118-74-1	Hexachlorobenzene	ND		95
58-89-9	g-BHC (lindane)	ND		95
82-68-8	Pentachloronitrobenzene	ND		95
76-44-8	Heptachlor	ND		95
309-00-2	Aldrin	ND		95
1024-57-3	Heptachlor epoxide	ND		95
5103-74-2	g-Chlordane	ND		95
5103-71-9	a-Chlordane	ND		95
72-55-9	4,4'-DDE	ND		95
72-54-8	4,4'-DDD	ND		95
50-29-3	4,4'-DDT	ND		95
79-34-5	Hexabromobenzene	ND		190
2385-85-5	Mirex	ND		95
53469-21-9	Aroclor 1242 (PCB)	ND		950
11097-69-1	Aroclor 1254 (PCB)	ND		950
11096-82-5	Aroclor 1260 (PCB)	ND		950
12674-11-1	*Aroclor 1016 (PCB)	ND		950
11104-28-2	*Aroclor 1221 (PCB)	ND		950
11141-16-5	*Aroclor 1232 (PCB)	ND		950
12672-29-6	*Aroclor 1248 (PCB)	ND		950
- -	*Aroclor 1262 (PCB)	ND		950
11100-14-4	*Aroclor 1268 (PCB)	ND		950
37324-23-5	BP-6 (PBB)	ND		480
8001-35-2	*Toxaphene	ND		950

COMMENTS

ND = not detected at the specified detection limit.
* Results and Det. Limit reported semi-quantitatively*

Subject: ***Laboratory Result Remark Codes***

A	value reported is the mean of two or more determinations.
C	value calculated from other independent parameters.
J	estimated value or value not accurate.
K	actual value is known to be less than the value given, i.e. substance, if present, is below detection limit.
L	actual value is known to be greater than the value given.
T	value reported is less than criteria of detection.
W	value observed is less than lowest value reportable under **"T"** code.
DL	sample analyzed using a dilution(s).
DM	dilution required due to matrix problems.
HT	recommended laboratory holding time was exceeded before analysis.
LH	Q. C. indicated possible low recovery. Actual level may be higher.
LL	Q. C. indicated possible high recovery. Actual level may be lower.
MM	analytical method or matrix is not within SOP of this laboratory.
NC	no confirmation by a second technique.
NH	non-homogeneous sample made analysis of a representative sample questionable.
PI	possible interference may have affected the accuracy of the laboratory result.
QC	quality control problems exists.
RB	Reagent Blank. The level of reagent blank contamination is reported in the comment column and may be subtracted from the analyte value by the user.
ST	recommended sample collection/preservation technique not used.
ACC	laboratory accident resulted in no obtainable value.
FCN	free cyanide was not analyzed due to low level of total cyanide.
INT	interference encountered during analysis resulted in no obtainable value.
IST	Improper sample collection/preservation. Sample not suitable for analysis.
NAV	requested analysis not available.
QNS	quantity not sufficient to perform requested analysis.
STR	settleable residue was not analyzed due to low suspended solids.

Approved by: George Su, Laboratory Director 1/5/95 Date

COMPLIANCE SAMPLING INSPECTION FIELD SHEET

COMPANY McLouth Steel - Gibraltar Plant FACILITY# _____
PLANT CONTACT Don Windiles PLANT ADDRESS _____
PERMIT# MI0004227 OUTFALL# 001 DESCRIPTION Effluent final
FLOW _____ SPLIT PARAMETERS (PERMIT LIMITED) T-Pb, T-Zn
SPECIAL INST. _____
final effluent
****

COMPOSITE CIRCLE OR LIST IN THE SPACE PROVIDED THE PARAMETERS THAT YOU ARE REQUESTING AND CIRCLE THE CORRESPONDING BOTTLE CODES

ORGANIC: (ON) SCAN 3, (OB) GC/MS, (OA) SCAN 8 _____

INORGANIC: (MA) METAL(TOTAL), BASIC 6 low level Cd, Cr, Cu, Ni, Pb, Zn
(MD) METAL(DISSOLVED) _____
(MN) CR+6, ALK, HARD, Cl, SO4, COND _____

GENERAL CHEMISTRY: (GN) TSS, TDS, BOD5, O-PHOS, CBOD5, TURBIDITY, SILICON _____
(GA) COD, TOC, NH3, TP, PHENOL, NO3+NO2, KJEL N _____
(GP/GG) PHENOL (GB) CYANIDE S SULFIDE _____

GRAB COMPOSITE TIMES OF ADDITION: ____/____/____/____/____
****

GRABS WRITE IN PARAMETERS YOU ARE REQUESTING NEXT TO APPROP. BOTTLE CODE; CROSS OUT THE BOTTLE CODES OF ANALYSIS YOU WILL NOT BE REQUESTING; CIRCLE THE NUMBER OF GRABS YOU WANT IN 24 HRS (eg. 1/24, 2/24 etc.)

	1/24	2/24	3/24	4/24	5/24
DATE	6/13	6/13	6/14		
TIME	820	pm 6:22	915		
TEMP.	64°F	77°F	70		
pH	7.96	7.79	7.43		
Cl2					
PO-1			X		
PO-2					
ON					
OB					
OA					
OG					
DO	7.7	7.4	6.9		
MA					
MD					
MN					
GN					
GA					
GP Phenol					
GB CN					
S Sulfide					
BC					

COMPANY TOTALIZER ____/____ FACTOR ____ START ____ END ____
SURVEY DONE BY _____ COMMENTS:

COMPLIANCE SAMPLING INSPECTION FIELD SHEET

COMPANY McLouth Steel Co - Gibraltar Plant FACILITY# _____
PLANT CONTACT Don Windsler 285-1200 PLANT ADDRESS 28000 River Rd Gibraltar
PERMIT# MI0004227 OUTFALL# 01B DESCRIPTION Treated process water
FLOW _____ SPLIT PARAMETERS(PERMIT LIMITED) Treated landfill leachate
SPECIAL INST. Stormwater
Sample taken before mixing w/ other W/W TSS, T-Fe, CBOD, Ammonia-N, T-Pb, T-Zn
****

COMPOSITE CIRCLE OR LIST IN THE SPACE PROVIDED THE PARAMETERS THAT YOU ARE REQUESTING AND CIRCLE THE CORRESPONDING BOTTLE CODES

ORGANIC: ON SCAN 3, OB GC/MS, OA SCAN 8 _____

INORGANIC: MA METAL(TOTAL), BASIC 6 low level Cd, Cr, Cu, Ni, Pb, Zn
MD METAL(DISSOLVED) _____
MN CR+6, ALK, HARD, Cl, SO4, COND _____

GENERAL CHEMISTRY: GN TSS, TDS, BOD5, O-PHOS, CBOD5, TURBIDITY, SILICON _____
GA COD, TOC, NH3, TP, PHENOL, NO3+NO2, KJEL N _____

GRAB GP/GG PHENOL, GB CYANIDE, S SULFIDE _____

GRAB COMPOSITE TIMES OF ADDITION: / / / / /
****

GRABS WRITE IN PARAMETERS YOU ARE REQUESTING NEXT TO APPROP. BOTTLE CODE; CROSS OUT THE BOTTLE CODES OF ANALYSIS YOU WILL NOT BE REQUESTING; CIRCLE THE NUMBER OF GRABS YOU WANT IN 24 HRS (eg. 1/24, 2/24 etc.)

	1/24	2/24	3/24	4/24	5/24
DATE	6/13	6/13	6/14		
TIME	AM 8:50	PM 605	854		
TEMP.	64°F	74°F	69°F		
pH	7.26	7.97	7.2		
~~Cl2~~					
~~PO-1~~					
~~PO-2~~					
~~ON~~					
~~OB~~					
~~OA~~					
~~OG~~					
DO	8.0	7.8	7.4		
~~MA~~					
~~MD~~					
~~MN~~					
~~GN~~					
~~GA~~					
~~GP Phenol~~					
~~GB CN-~~					
~~S Sulfide~~					
~~BC~~					

COMPANY TOTALIZER _____ / _____ FACTOR _____ START _____ END _____
SURVEY DONE BY _____ COMMENTS:

COMPLIANCE SAMPLING INSPECTION FIELD SHEET

COMPANY McLouth Steel Gibraltar Plant FACILITY# _____
PLANT CONTACT Alan Windelin 285-1200 PLANT ADDRESS 2800 Grier Rd Gibraltar
PERMIT# MI0004227 OUTFALL# — DESCRIPTION noncontact cooling H_2O
FLOW _____ SPLIT PARAMETERS (PERMIT LIMITED) _____
SPECIAL INST.
noncontact cooling water prior to discharge at 001
****

COMPOSITE CIRCLE OR LIST IN THE SPACE PROVIDED THE PARAMETERS THAT YOU ARE REQUESTING AND CIRCLE THE CORRESPONDING BOTTLE CODES

ORGANIC: ON SCAN 3, OB GC/MS, OA SCAN 8 _____

INORGANIC: MA METAL(TOTAL), BASIC 6 low level Cd, Cr, Cu, Ni, Pb, Zn

9 MD METAL(DISSOLVED) _____

MN CR+6, ALK, HARD, Cl, SO4, COND _____

GENERAL CHEMISTRY: GN TSS, TDS, BOD5, O-PHOS, CBOD5, TURBIDITY, SILICON _____

6/14 GA COD, TOC, NH3, TP, PHENOL, NO3+NO2, KJEL N _____

GP/GG PHENOL GB CYANIDE S SULFIDE _____

GRAB COMPOSITE TIMES OF ADDITION: ____/____/____/____/____
****

GRABS WRITE IN PARAMETERS YOU ARE REQUESTING NEXT TO APPROP. BOTTLE CODE; CROSS OUT THE BOTTLE CODES OF ANALYSIS YOU WILL NOT BE REQUESTING; CIRCLE THE NUMBER OF GRABS YOU WANT IN 24 HRS (eg. 1/24, 2/24 etc.)

	10 1/24	11 2/24	12 3/24	4/24	5/24
DATE	6/13	6/13	6/14		
TIME	9:42	1845	935		
TEMP.	68°F	75	72°F		
pH	7.29	7.35	7.15		
Cl2					
PO-1			X		
PO-2					
~~ON~~					
~~OB~~					
~~OA~~					
OG			X		
DO	8.4	7.4	7.6		
~~MA~~					
~~MD~~					
~~MN~~					
~~GN~~					
~~GA~~					
~~GP Phenol~~					
~~GB CN~~					
~~S Sulfide~~					
~~BC~~					

COMPANY TOTALIZER _____ / _____ FACTOR _____ START _____ END _____
SURVEY DONE BY _____ COMMENTS:

COMPLIANCE SAMPLING INSPECTION FIELD SHEET

COMPANY McLouth Steel Gibraltar Plant FACILITY#
PLANT CONTACT Don Wendler 285-1200 PLANT ADDRESS 28000 River Rd Gibraltar
PERMIT# MI0004227 OUTFALL# Intake DESCRIPTION Intake water
FLOW SPLIT PARAMETERS(PERMIT LIMITED) TSS, T-Fe, CBOD, Ammonia-N, T-Pb, T-Zn
SPECIAL INST.
pump station on Det River
****

COMPOSITE CIRCLE OR LIST IN THE SPACE PROVIDED THE PARAMETERS THAT YOU ARE REQUESTING AND CIRCLE THE CORRESPONDING BOTTLE CODES

ORGANIC: (ON) (OB) (OA) SCAN 3, GC/MS, SCAN 8

INORGANIC: (MA) METAL(TOTAL), (BASIC 6) low level Cd, Cr, Cu, Ni, Pb, Zn

13 MD METAL(DISSOLVED)

6/4 (MN) CR+6, ALK, HARD, Cl, SO4, COND

GENERAL CHEMISTRY: (GN) (TSS) TDS, BOD5, O-PHOS, (CBOD5), (TURBIDITY), SILICON

CRAB (GA) COD, TOC, (NH3), TP, PHENOL, NO3+NO2, KJEL N

FROM HOSE (GP/GG) PHENOL (GB) CYANIDE S SULFIDE

GRAB COMPOSITE TIMES OF ADDITION: / / / / /
****

GRABS WRITE IN PARAMETERS YOU ARE REQUESTING NEXT TO APPROP. BOTTLE CODE; CROSS OUT THE BOTTLE CODES OF ANALYSIS YOU WILL NOT BE REQUESTING; CIRCLE THE NUMBER OF GRABS YOU WANT IN 24 HRS (eg. 1/24, 2/24 etc.)

14 15 16 16B

	1/24	2/24	3/24	4/24	5/24
DATE	6/13	6/13	6/14		
TIME	1000	1905	945		
TEMP.	68	72	72		
pH	7.83	7.97	7.42		
~~Cl2~~					
PO-1					
PO-2					
~~ON~~					
~~OB~~					
~~OA~~					
OG					
DO	8.8	9.2	8.5		
MA					
~~MD~~					
~~MN~~					
GN					
GA					
~~GP Phenol~~					
~~GB CN~~					
~~S Sulfide~~					
~~BC~~					

COMPANY TOTALIZER / FACTOR START END
SURVEY DONE BY COMMENTS: