

REVISED FINAL
REMEDIAL INVESTIGATION REPORT
(VOLUME II OF II)

APPENDICES E, F, G, AND H

MW MANUFACTURING SITE
MONTGOMERY COUNTY, PENNSYLVANIA

APRIL 1990

EPA WORK ASSIGNMENT NUMBER 192-3LE5
UNDER
CONTRACT NUMBER 68-01-7250

PREPARED BY:
NUS CORPORATION
PITTSBURGH, PENNSYLVANIA

APPROVED BY:
EBASCO SERVICES INCORPORATED
LANGHORNE, PENNSYLVANIA

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REGIONAL MANAGER, REGION III
EBASCO SERVICES INCORPORATED

AR302031

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VOLUME II OF II

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TABLE E-1

CONTRACT LABORATORY PROGRAM
TARGET COMPOUND LIST
TARGET ANALYTE LIST

Chemical	Contract Required Detection Limit	
	Water ($\mu\text{g/l}$)	Soil/Sediments ($\mu\text{g/kg}$)
<u>Volatile Organics</u>		
acetone	10	10
2-butanone	10	10
2-hexanone	10	10
4-methyl-2-pentanone	10	10
benzene	5	5
toluene	5	5
ethylbenzene	5	5
total xylenes	5	5
styrene	5	5
chlorobenzene	5	5
1,1,2,2-tetrachloroethane	5	5
1,1,1-trichloroethane	5	5
1,1,2-trichloroethane	5	5
1,1-dichloroethane	5	5
1,2-dichloroethane	5	5
chloroethane	10	10
tetrachloroethene	5	5
trichloroethene	5	5
1,2-dichloroethene	5	5
1,1-dichloroethene	5	5
vinyl chloride	10	10
carbon tetrachloride	5	5
chloroform	5	5

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TABLE E-1
 CONTRACT LABORATORY PROGRAM
 TARGET COMPOUND LIST
 TARGET ANALYTE LIST
 PAGE TWO

Chemical	Contract Required Detection Limit	
	Water ($\mu\text{g/l}$)	Soil/Sediment ($\mu\text{g/kg}$)
<u>Volatile Organics (Cont'd)</u>		
methylene chloride	5	5
chloromethane	10	10
1,2-dichloropropane	5	5
trans-1,3-dichloropropene	5	5
cis-1,3-dichloropropene	5	5
bromoform	5	5
bromomethane	10	10
biomodichloromethane	5	5
dibromochloromethane	5	5
carbon disulfide	5	5
2-chloroethylvinylether	10	10
vinyl acetate	10	10
<u>Acid Extractables</u>		
phenol	10	330
2-methylphenol	10	330
4-methylphenol	10	330
2,4-dimethylphenol	10	330
2-chlorophenol	10	330
2,4-dichlorophenol	10	330
2,4,5-trichlorophenol	50	1600
2,4,6-trichlorophenol	10	330
pentachlorophenol	50	1600
4-chloro-3-methylphenol	10	330

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TABLE E-1
 CONTRACT LABORATORY PROGRAM
 TARGET COMPOUND LIST
 TARGET ANALYTE LIST
 PAGE THREE

Chemical	Contract Required Detection Limit	
	Water ($\mu\text{g/l}$)	Soil/Sediment ($\mu\text{g/kg}$)
<u>Acid Extractables (Cont'd)</u>		
2-nitrophenol	10	330
4-nitrophenol	50	1600
2,4-dinitrophenol	50	1600
4,6-dinitro-2-methylphenol	50	1600
<u>Base/Neutral Extractables</u>		
bis(2-ethylhexyl)phthalate	10	330
di-n-octylphthalate	10	330
di-n-butylphthalate	10	330
diethylphthalate	10	330
butylbenzyl phthalate	10	330
dimethyl phthalate	10	330
acenaphthene	10	330
acenaphthylene	10	330
anthracene	10	330
benzo(a)fluoranthene	10	330
benzo(b)fluoranthene	10	330
benzo(k)fluoranthene	10	330
benzo(g,h,i)perylene	10	330
benzo(a)pyrene	10	330
chrysene	10	330
dibenzo(a,h)anthracene	10	330
fluoranthene	10	330
fluorene	10	330
indeno(1,2,3-cd)pyrene	10	330

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TABLE E-1
 CONTRACT LABORATORY PROGRAM
 TARGET COMPOUND LIST
 TARGET ANALYTE LIST
 PAGE FOUR

Chemical	Contract Required Detection Limit	
	Water ($\mu\text{g/l}$)	Soil/Sediment ($\mu\text{g/kg}$)
<u>Base/Neutral Extractables</u> Cont'd		
naphthalene	10	330
2-methylnaphthalene	10	330
2-chloronaphthalene	10	330
phenanthrene	10	330
pyrene	10	330
1,2-dichlorobenzene	10	330
1,3-dichlorobenzene	10	330
1,4-dichlorobenzene	10	330
1,2,4-trichlorobenzene	10	330
hexachlorobenzene	10	330
nitrobenzene	10	330
2,6-dinitrotoluene	10	330
2,4-dinitrotoluene	10	330
N-nitrosodi-n-propylamine	10	330
N-nitrosodiphenylamine	10	330
2-nitroaniline	50	1600
3-nitroaniline	50	1600
4-nitroaniline	50	1600
4-chloroaniline	10	330
bis(2-chloroethyl)ether	10	330
bis(2-chloroisopropyl)ether	10	330
bromophenyl-phenylether	10	330
4-chlorophenyl-phenylether	10	330

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TABLE E-1
 CONTRACT LABORATORY PROGRAM
 TARGET COMPOUND LIST
 TARGET ANALYTE LIST
 PAGE FIVE

Chemical	Contract Required Detection Limit	
	Water (µg/l)	Soil/Sediment (µg/kg)
<u>Base/Neutral Extractables</u> Cont'd		
hexachlorobutadiene	10	330
hexachlorocyclopentadiene	10	330
3,3'-dichlorobenzidine	10	330
benzoic acid	50	1600
benzyl alcohol	10	330
bis(2-chloroethoxy)methane	10	330
dibenzofuran	10	330
hexachloroethane	10	330
isophorone	10	330
<u>Pesticides/PCBs</u>		
alpha-BHC	0.05	8.0
beta-BHC	0.05	8.0
delta-BHC	0.05	8.0
gamma-BHC	0.05	8.0
heptachlor	0.05	8.0
heptachlor epoxide	0.05	8.0
4,4'-DDT	0.10	16.0
4,4'-DDD	0.10	16.0
4,4'-DDE	0.10	16.0
endrin	0.10	16.0
endrin ketone	0.10	16.0
endrin aldehyde	0.10	16.0
endosulfan I	0.05	8.0
endosulfan II	0.10	16.0

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TABLE E-1
 CONTRACT LABORATORY PROGRAM
 TARGET COMPOUND LIST
 TARGET ANALYTE LIST
 PAGE SIX

Chemical	Contract Required Detection Limit	
	Water ($\mu\text{g/l}$)	Soil/Sediment ($\mu\text{g/kg}$)
<u>Pesticides/PCBs</u> (Cont'd)		
endosulfan sulfate	0.10	16.0
aldrin	0.05	8.0
dieldrin	0.10	16.0
chlordan	0.5	80.0
methoxychlor	0.5	80.0
toxaphene	1.0	80.0
Aroclor 1016	0.5	80.0
Aroclor 1221	0.5	80.0
Aroclor 1232	0.5	80.0
Aroclor 1242	0.5	80.0
Aroclor 1248	0.5	80.0
Aroclor 1254	1.0	160.0
Aroclor 1260	1.0	160.0
<u>Inorganics</u>		
aluminum	200	40
antimony	60	12
arsenic	10	2
barium	200	40
beryllium	5	1
cadmium	5	1
calcium	5000	1000
chromium	10	2
cobalt	50	10
copper	25	5

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TABLE E-1
 CONTRACT LABORATORY PROGRAM
 TARGET COMPOUND LIST
 TARGET ANALYTE LIST
 PAGE SEVEN

Chemical	Contract Required Detection Limit	
	Water (ug/l)	Soil/Sediment (ug/kg)
<u>Inorganics</u> (Cont'd)		
iron	100	20
lead	5	1
magnesium	5000	1000
manganese	15	3
mercury	0.2	0.04
nickel	40	8
potassium	5000	1000
selenium	5	1
silver	10	2
sodium	5000	1000
thallium	10	2
tin	40	8
vanadium	50	10
zinc	20	4
cyanide	10	2

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TABLE E-2

CHEMICAL ABBREVIATIONS USED IN FIGURES
MW MANUFACTURING SITE
MONTGOMERY COUNTY, PENNSYLVANIA

acetone	ATON
2-butanone	MEK
2-hexanone	HXON
4-methyl-2-pentanone	MIBK
benzene	BZ
toluene	TL
ethylbenzene	EBZ
total xylenes	XY
styrene	STYR
chlorobenzene	CLBZ
1,1,2,2-tetrachloroethane	1122TCA
1,1,1-trichloroethane	111TCA
1,1,2-trichloroethane	112TCA
1,1-dichloroethane	11DCA
1,2-dichloroethane	12DCA
chloroethane	CETA
tetrachloroethene	PERCE
trichloroethene	TCE
trans-1,2-dichloroethene	12DCE
1,1-dichloroethene	11DCE
vinyl chloride	VC
carbon tetrachloride	CTET
chloroform	CLFRM
methylene chloride	MECL
chloromethane	CLMA
1,2-dichloropropane	12DCPA
trans-1,3-dichloropropene	T13DCPE
cis-1,3-dichloropropene	C13DCPE
bromoform	BRFRM

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TABLE E-2
 CHEMICAL ABBREVIATIONS USED IN FIGURES
 MW MANUFACTURING SITE
 MONTOUR COUNTY, PENNSYLVANIA
 PAGE TWO

bromomethane	BRMA
biomodichloromethane	BRDCMA
chlorodibromomethane	CDBRMA
carbon disulfide	CS2
2-chloroethylvinyl ether	CEVE
vinyl acetate	VACT
phenol	PL
2-methylphenol	2MPL
4-methylphenol	4MPL
2,4-dimethylphenol	24MPL
2-chlorophenol	2CPL
2,4-dichlorophenol	24DCPL
2,4,5-trichlorophenol	245TCPL
2,4,6-trichlorophenol	246TCPL
pentachlorophenol	PCPL
4-chloro-3-methylphenol	463MPL
2-nitrophenol	2NPL
4-nitrophenol	4NPL
2,4-dinitrophenol	24DNPL
4,6-dinitro-2-methylphenol	46DNZMPL
bis(2-ethylhexyl)phthalate	BEHP
di-n-octylphthalate	DNOP
di-n-butylphthalate	DNBP
diethylphthalate	DEP
butylbenzyl phthalate	BBP
dimethyl phthalate	DMP
acenaphthene	ACNE
acenaphthylene	ACNYE
anthracene	ANTH

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TABLE E-2
 CHEMICAL ABBREVIATIONS USED IN FIGURES
 MW MANUFACTURING SITE
 MONTOUR COUNTY, PENNSYLVANIA
 PAGE THREE

benzo(a)anthracene	B(A)A
benzo(b)fluoranthene	B(A)FL
benzo(k)fluoranthene	B(K)FL
benzo(g,h,i)perylene	B(GHI)P
benzo(a)pyrene	B(A)P
chrysene	CHR
dibenzo(a,h)anthracene	DB(AH)A
fluoranthene	FLNTH
fluorene	FLE
indeno(1,2,3-cd)pyrene	I(CD)P
naphthalene	NPTH
2-methylnaphthalene	2MNTH
2-chloronaphthalene	2CNTH
phenanthrene	PHEN
pyrene	PYR
1,2-dichlorobenzene	12DCBZ
1,3-dichlorobenzene	13DCBZ
1,4-dichlorobenzene	14DCBZ
1,2,4-trichlorobenzene	124TCBZ
hexachlorobenzene	HCBZ
nitrobenzene	NBZ
2,6-dinitrotoluene	23DNT
2,4-dinitrotoluene	24DNT
N-nitrosodi-n-methylamine	NDMA
N-nitrosodi-n-propylamine	NDPRA
N-nitrosodiphenylamine	NDPHA
aniline	AH
2-nitroaniline	2NAN
3-nitroaniline	3NAN
4-nitroaniline	4NAN

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TABLE E-2
 CHEMICAL ABBREVIATIONS USED IN FIGURES
 MW MANUFACTURING SITE
 MONTGOMERY COUNTY, PENNSYLVANIA
 PAGE FOUR

4-chloroaniline	4CAN
bis(2-chloroethyl)ether	BCEE
bis(2-chloroisopropyl)ether	BCIE
bromophenyl-phenyl ether	BPPE
4-chlorophenyl-phenyl ether	CPPE
hexachlorobutadiene	HCBD
hexachlorocyclopentadiene	HCCP
benzidine	BZD
3,3'-dichlorobenzidine	DCBZD
benzoic acid	BZA
benzyl alcohol	BZLAL
bis(2-chloroethoxy)methane	BCEM
dibenzofuran	DBZFN
hexachloroethane	HCEA
isophorone	ISOP
alpha-BHC	ABHC
beta-BHC	BBHC
delta-BHC	DBHC
gamma-BHC	GBHC
heptachlor	HCLR
heptachlor epoxide	HCLRE
4,4'-DDT	DDT
4,4'-DDD	DDD
4,4'-DDE	DDE
endrin	END
endrin ketone	ENDK
endrin aldehyde	ENDA
endosulfan I	ENDOI
endosulfan II	ENDOII
endosulfan sulfate	ENDOS

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TABLE E-2
 CHEMICAL ABBREVIATIONS USED IN FIGURES
 MW MANUFACTURING SITE
 MONTOUR COUNTY, PENNSYLVANIA
 PAGE FIVE

aldrin	ALD
dieldrin	DLD
chlordane	CLD
methoxychlor	MXCL
toxaphene	TOXP
Aroclor 1016	PCB1016
Aroclor 1221	PCB1221
Aroclor 1232	PCB1232
Aroclor 1242	PCB1242
Aroclor 1248	PCB1248
Aroclor 1254	PCB1254
Aroclor 1260	PCB1260
aluminum	Al
antimony	Sb
arsenic	As
barium	Ba
beryllium	Be
cadmium	Cd
calcium	Ca
chromium	Cr
cobalt	Co
copper	Cu
iron	Fe
lead	Pb
magnesium	Mg
manganese	Mn
mercury	Hg
nickel	Ni
potassium	K
selenium	Se

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TABLE E-2
CHEMICAL ABBREVIATIONS USED IN FIGURES
MW MANUFACTURING SITE
MONTGOMERY COUNTY, PENNSYLVANIA
PAGE SIX

silver	Ag
sodium	Na
thallium	Th
tin	Sn
vanadium	V
zinc	Zn

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APPENDIX E.1.0

FLUFF WASTE AND CARBON WASTE SAMPLES

AR302048

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APPENDIX E.1.1

FLUFF WASTE AND CARBON WASTE
CHEMICAL ANALYSIS

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ND - NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE	REF	KT NUMBER	MS-WA001-1	MS-WA002-1	MS-WA003-1	MS-WA004-1	MS-WA005-1	MS-WA006-1	MS-WA007-1
TRAFF			3773	3774	3775	3776	3777	3778	3779
LOCATION			LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
Z MOISTURE									
DESCRIPTION			CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE
UNITS			UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
DATE SAMPLED			06/13/88	06/13/88	06/14/88	06/14/88	06/14/88	06/14/88	06/14/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND	J	J	J	J	J	J	J
66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	17000000	70000000	1900000	370000	370000	2100000	1700000
69B	117-84-0	DI-N-OCTYL PHTHALATE	590000	1700000	120000	ND	57000	120000	71000
65-05-0		BENZOIC ACID	ND	ND	190000	ND	ND	ND	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

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NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 Z MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA001-1 3773 LOC. 1	MS-WA002-1 3774 LOC. 2	MS-WA003-1 3775 LOC. 3	MS-WA004-1 3776 LOC. 4	MS-WA005-1 3777 LOC. 5	MS-WA006-1 3778 LOC. 6	MS-WA007-1 3779 LOC. 7
CARBON WASTE UG/KG 06/13/88	CARBON WASTE UG/KG 06/13/88	CARBON WASTE UG/KG 06/14/88	CARBON WASTE UG/KG 06/14/88	CARBON WASTE UG/KG 06/14/88	CARBON WASTE UG/KG 06/14/88	CARBON WASTE UG/KG 06/14/88

*** ACIDS ***

PP	CAS NO	COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES :

B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

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AR302052

HU MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:	MS-WA001-1	MS-WA002-1	MS-WA003-1	MS-WA004-1	MS-WA005-1	MS-WA006-1	MS-WA007-1
TRAFFIC REPORT NUMBER:	3773	3774	3775	3776	3777	3778	3779
LOCATION:	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
% MOISTURE:	26	4	1	8	15	11	12
DESCRIPTION:	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
DATE SAMPLED:	06/13/88	06/13/88	06/14/88	06/14/88	06/14/88	06/14/88	06/14/88

*** PESTICIDES ***

PP	CAS NO	COMPOUND
106P	53469-21-9	AROCLOR-1242
107P	11097-69-1	AROCLOR-1254

J 47700	J 8800	ND	ND	ND	ND	ND
J 6460	J 3490	J 1380	J 2730	J 1040	J 1670	J 1280

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

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NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:	MS-WA001-1	MS-WA002-1	MS-WA003-1	MS-WA004-1	MS-WA005-1	MS-WA006-1	MS-WA007-1
TRAFFIC REPORT NUMBER:	119505	119509	127517	127522	127526	127530	127534
LOCATION:	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
% MOISTURE:	26	7	15	12	11	15	15
DESCRIPTION:	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE	CARBON WASTE
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
DATE SAMPLED:	06/13/88	06/13/88	06/14/88	06/14/88	06/14/88	06/14/88	06/14/88

*** INORGANICS ***

PP CAS NO COMPOUND

1	ALUMINUM	1720
2	ANTIMONY	B 34
3	ARSENIC	ND
4	BARIUM	53
5	BERYLLIUM	[0.30]
6	CADMIUM	1.5
7	CALCIUM	J 1190
8	CHROMIUM	L 121
9	COBALT	ND
10	COPPER	21500
11	IRON	J 10800
12	LEAD	9450
13	MAGNESIUM	[632]
14	MANGANESE	J 15
15	MERCURY	L 0.1
16	NICKEL	ND
17	POTASSIUM	[216]
19	SILVER	ND
20	SODIUM	B [91]
24	ZINC	L 155

830	728	586	1210	2420
L 171	L 88	L 78	L 124	L 93
ND	ND	ND	ND	ND
56	45	[33]	42	[39]
[0.31]	ND	ND	ND	[0.21]
1.4	2.2	1.9	1.6	1.6
J [677]	J [552]	J [663]	J [521]	J 1410
L 164	L 160	L 101	L 105	L 133
ND	ND	ND	ND	[2.3]
23100	12800	4090	11400	69100
J 3170	J 1190	J 524	J 1560	J 5270
18800	20500	29600	18100	15800
[106]	[61]	[46]	[188]	[573]
B 4.6	B [2.8]	B [1.7]	B 4.7	J 24
ND	ND	ND	ND	ND
ND	ND	ND	ND	[4.7]
ND	ND	ND	ND	[202]
ND	ND	ND	ND	2.6
B [68]	B [66]	B [86]	B [69]	B [70]
L 186	L 265	L 162	L 272	L 290

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

[] = APPROXIMATE VALUE

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

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NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: HS-WA001-1 HS-WA002-1 HS-WA003-1 HS-WA004-1 HS-WA005-1 HS-WA006-1 HS-WA007-1
 TRAFFIC REPORT NUMBER: NA NA NA NA NA NA NA
 LOCATION: LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5 LOC. 6 LOC. 7
 % MOISTURE: CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE
 DESCRIPTION: CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE
 UNITS: 06/13/88 06/13/88 06/14/88 06/14/88 06/14/88 06/14/88 06/14/88
 DATE SAMPLED:

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND
		PERCENT ASH @ 775C
		WATER CONTENT %
		HEAT OF COMBUSTION BTU/LB
		% CHLORINE
		SPECIFIC GRAVITY

NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	14.2	31.3
NA	NA	NA	NA	NA	18.2	19.7
NA	NA	NA	NA	NA	11100	10500
NA	NA	NA	NA	NA	9.4	6.7
NA	NA	NA	NA	NA	NA	NA

AR302055

AR302055

SAMPLE NUMBER;
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

NS-WA008-1	NS-WA009-1	NS-WA010-1	NS-WA010-1A	NS-WA011-1	NS-WA013-1	NS-WA014-1
3780	3781	3782	3799	NA	3783	3784
LOC. 8	LOC. 9	LOC. 10	LOC. 10	LOC. 11	LOC. 13	LOC. 14
CARBON WASTE	CARBON WASTE	CARBON WASTE	DUPLICATE	BACKGROUND	FLUFF WASTE	FLUFF WASTE
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/14/88	06/14/88	06/14/88	06/14/88	06/14/88	06/15/88	06/15/88

PP	CAS NO	COMPOUND
1	100-10-7	1,2-DICHLOROETHANE
2	100-41-3	1,1-DICHLOROETHANE
3	100-44-1	1,1,1-TRICHLOROETHANE
4	100-47-1	1,1,2-TRICHLOROETHANE
5	100-51-6	1,1,2,2-TETRACHLOROETHANE
6	100-54-7	1,1,1,2-TETRACHLOROETHANE
7	100-59-1	1,1,2,2-TETRACHLOROETHYLENE
8	100-61-3	1,1,2,2-TETRACHLOROETHYLENE
9	100-62-7	1,1,2,2-TETRACHLOROETHYLENE
10	100-63-2	1,1,2,2-TETRACHLOROETHYLENE
11	100-64-7	1,1,2,2-TETRACHLOROETHYLENE
12	100-65-2	1,1,2,2-TETRACHLOROETHYLENE
13	100-66-7	1,1,2,2-TETRACHLOROETHYLENE
14	100-67-2	1,1,2,2-TETRACHLOROETHYLENE
15	100-68-7	1,1,2,2-TETRACHLOROETHYLENE
16	100-69-2	1,1,2,2-TETRACHLOROETHYLENE
17	100-70-7	1,1,2,2-TETRACHLOROETHYLENE
18	100-71-2	1,1,2,2-TETRACHLOROETHYLENE
19	100-72-7	1,1,2,2-TETRACHLOROETHYLENE
20	100-73-2	1,1,2,2-TETRACHLOROETHYLENE
21	100-74-7	1,1,2,2-TETRACHLOROETHYLENE
22	100-75-2	1,1,2,2-TETRACHLOROETHYLENE
23	100-76-7	1,1,2,2-TETRACHLOROETHYLENE
24	100-77-2	1,1,2,2-TETRACHLOROETHYLENE
25	100-78-7	1,1,2,2-TETRACHLOROETHYLENE
26	100-79-2	1,1,2,2-TETRACHLOROETHYLENE
27	100-80-7	1,1,2,2-TETRACHLOROETHYLENE
28	100-81-2	1,1,2,2-TETRACHLOROETHYLENE
29	100-82-7	1,1,2,2-TETRACHLOROETHYLENE
30	100-83-2	1,1,2,2-TETRACHLOROETHYLENE
31	100-84-7	1,1,2,2-TETRACHLOROETHYLENE
32	100-85-2	1,1,2,2-TETRACHLOROETHYLENE
33	100-86-7	1,1,2,2-TETRACHLOROETHYLENE
34	100-87-2	1,1,2,2-TETRACHLOROETHYLENE
35	100-88-7	1,1,2,2-TETRACHLOROETHYLENE
36	100-89-2	1,1,2,2-TETRACHLOROETHYLENE
37	100-90-7	1,1,2,2-TETRACHLOROETHYLENE
38	100-91-2	1,1,2,2-TETRACHLOROETHYLENE
39	100-92-7	1,1,2,2-TETRACHLOROETHYLENE
40	100-93-2	1,1,2,2-TETRACHLOROETHYLENE
41	100-94-7	1,1,2,2-TETRACHLOROETHYLENE
42	100-95-2	1,1,2,2-TETRACHLOROETHYLENE
43	100-96-7	1,1,2,2-TETRACHLOROETHYLENE
44	100-97-2	1,1,2,2-TETRACHLOROETHYLENE
45	100-98-7	1,1,2,2-TETRACHLOROETHYLENE
46	100-99-2	1,1,2,2-TETRACHLOROETHYLENE
47	100-100-7	1,1,2,2-TETRACHLOROETHYLENE
48	100-101-2	1,1,2,2-TETRACHLOROETHYLENE
49	100-102-7	1,1,2,2-TETRACHLOROETHYLENE
50	100-103-2	1,1,2,2-TETRACHLOROETHYLENE
51	100-104-7	1,1,2,2-TETRACHLOROETHYLENE
52	100-105-2	1,1,2,2-TETRACHLOROETHYLENE
53	100-106-7	1,1,2,2-TETRACHLOROETHYLENE
54	100-107-2	1,1,2,2-TETRACHLOROETHYLENE
55	100-108-7	1,1,2,2-TETRACHLOROETHYLENE
56	100-109-2	1,1,2,2-TETRACHLOROETHYLENE
57	100-110-7	1,1,2,2-TETRACHLOROETHYLENE
58	100-111-2	1,1,2,2-TETRACHLOROETHYLENE
59	100-112-7	1,1,2,2-TETRACHLOROETHYLENE
60	100-113-2	1,1,2,2-TETRACHLOROETHYLENE
61	100-114-7	1,1,2,2-TETRACHLOROETHYLENE
62	100-115-2	1,1,2,2-TETRACHLOROETHYLENE
63	100-116-7	1,1,2,2-TETRACHLOROETHYLENE
64	100-117-2	1,1,2,2-TETRACHLOROETHYLENE
65	100-118-7	1,1,2,2-TETRACHLOROETHYLENE
66	100-119-2	1,1,2,2-TETRACHLOROETHYLENE
67	100-120-7	1,1,2,2-TETRACHLOROETHYLENE
68	100-121-2	1,1,2,2-TETRACHLOROETHYLENE
69	100-122-7	1,1,2,2-TETRACHLOROETHYLENE
70	100-123-2	1,1,2,2-TETRACHLOROETHYLENE
71	100-124-7	1,1,2,2-TETRACHLOROETHYLENE
72	100-125-2	1,1,2,2-TETRACHLOROETHYLENE
73	100-126-7	1,1,2,2-TETRACHLOROETHYLENE
74	100-127-2	1,1,2,2-TETRACHLOROETHYLENE
75	100-128-7	1,1,2,2-TETRACHLOROETHYLENE
76	100-129-2	1,1,2,2-TETRACHLOROETHYLENE
77	100-130-7	1,1,2,2-TETRACHLOROETHYLENE
78	100-131-2	1,1,2,2-TETRACHLOROETHYLENE
79	100-132-7	1,1,2,2-TETRACHLOROETHYLENE
80	100-133-2	1,1,2,2-TETRACHLOROETHYLENE
81	100-134-7	1,1,2,2-TETRACHLOROETHYLENE</

67-64-1	ACETONE
78-93-3	2-BUTANONE
86V	TOLUENE
38V	ETHYL BENZENE
100-41-4	TOTAL XYLENES
95-47-6	1,1,2,2-TETRACHLOROETHANE
79-34-5	1,1,2-TRICHLOROETHANE
79-00-5	1,1,2-TRICHLOROETHENE
85V	TRICHLOROETHENE
127-18-4	TRICHLOROETHANE
87V	TRANS-1,2-DICHLOROETHENE
79-01-6	CHLOROFORM
30V	1,2-DICHLOROETHANE
156-60-5	METHYLENE CHLORIDE
67-66-3	CARBON DISULFIDE
75-09-2	
75-15-0	

B 27000	ND	B 48000	ND	NA	B 4300	ND
ND	ND	ND	ND	NA	ND	ND
J 7000	J 7700	ND	ND	NA	ND	J 360
J 1700	ND	ND	ND	NA	ND	ND
J 4600	ND	ND	ND	NA	ND	ND
ND	ND	ND	ND	NA	ND	ND
J 13000	J 510000	J 200000	ND	NA	ND	ND
J 2200000	J 11000000	J 3900000	L 57000	NA	ND	ND
ND	J 12000	J 44000	L 890000	NA	ND	ND
ND	ND	J 19000	L 23000	NA	ND	J 120000
J 1200	ND	ND	ND	NA	ND	ND
B 7000	B 23000	B 24000	B 83000	NA	ND	ND
ND	ND	ND	ND	NA	B 3000	B 27000
				NA	ND	B 46

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
I = APPROXIMATE VALUE

J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
K = APPROXIMATE VALUE
L = APPROXIMATE VALUE
ND = NOT DETECTED

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302056

AR302056

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA008-1	MS-WA009-1	MS-WA010-1	MS-WA010-1A	MS-WA011-1	MS-WA013-1	MS-WA014-1
3780	3781	3782	3799	NA	3783	3784
LOC. 8	LOC. 9	LOC. 10	LOC. 10	LOC. 11	LOC. 13	LOC. 14
CARBON WASTE	CARBON WASTE	CARBON WASTE	DUPLICATE	BACKGROUND	FLUFF WASTE	FLUFF WASTE
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/14/88	06/14/88	06/14/88	06/14/88	06/14/88	06/15/88	06/15/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

669 117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE
698 117-84-0 DI-N-OCTYL PHTHALATE
65-85-0 BENZOIC ACID

J 120000	J 630000	J 6700000	J 1800000	NA	J 98000000	J 72000000
ND	J 27000	J 620000	J 160000	NA	J 2300000	J 6800000
ND	ND	ND	ND	NA	ND	ND

AR302057

AR302057

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
LJ = APPROXIMATE VALUE
N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

MW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
X MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA008-1 3780 LOC. 8	MS-WA009-1 3781 LOC. 9	MS-WA010-1 3782 LOC. 10	MS-WA010-1A 3799 LOC. 10	MS-WA011-1 NA LOC. 11	MS-WA013-1 3783 LOC. 13	MS-WA014-1 3784 LOC. 14
CARBON WASTE UG/KG 06/14/88	CARBON WASTE UG/KG 06/14/88	CARBON WASTE UG/KG 06/14/88	DUPLICATE UG/KG 06/14/88	BACKGROUND UG/KG 06/14/88	FLUFF WASTE UG/KG 06/15/88	FLUFF WASTE UG/KG 06/15/88

*** ACIDS ***

PP	CAS NO	COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302058

AR302058

NOTES :
B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: MS-WA008-1 MS-WA009-1 MS-WA010-1 MS-WA010-1A MS-WA011-1 MS-WA013-1 MS-WA014-1
 TRAFFIC REPORT NUMBER: 3780 3781 3782 3799 3783 3784
 LOCATION: LOC. 8 LOC. 9 LOC. 10 LOC. 10 LOC. 11 LOC. 13 LOC. 14
 % MOISTURE: 14 17 19 0 0 0 0
 DESCRIPTION: CARBON WASTE CARBON WASTE CARBON WASTE DUPLICATE BACKGROUND FLUFF WASTE
 UNITS: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 06/14/88 06/14/88 06/14/88 06/14/88 06/14/88 06/15/88 06/15/88

*** PESTICIDES ***

PP CAS NO COMPOUND

106P 53469-21-9 ARDCLOR-1242
 107P 11097-69-1 ARDCLOR-1254

ND J 2460 ND J 1580 ND J 3610 ND J 1410 NA NA ND J 11300 ND J 14800

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

[] = APPROXIMATE VALUE

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302059

ARDCLOR

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
X MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA008-1	MS-WA009-1	MS-WA010-1	MS-WA010-1A	MS-WA011-1	MS-WA013-1	MS-WA014-1
127538	119543	119599	119607	NA	127397	127401
LOC. 8	LOC. 9	LOC. 10	LOC. 10	LOC. 11	LOC. 13	LOC. 14
13	21	23	15	40	23	23
CARBON WASTE	CARBON WASTE	CARBON WASTE	DUPLICATE	BACKGROUND	FLUFF WASTE	FLUFF WASTE
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
06/14/88	06/14/88	06/14/88	06/14/88	06/14/88	06/15/88	06/15/88

*** INORGANICS ***

PP CAS NO COMPOUND

1	ALUMINUM	513	3950	1980	3700	NA	908	2330
2	ANTIMONY	L 55	B 19	L 71	L 120	NA	B 53	ND
3	ARSENIC	ND	ND	ND	ND	NA	ND	L 2.8
4	BARIUM	[29]	68	65	63	NA	232	103
5	BERYLLIUM	[0.09]	0.25	0.02	[0.21]	NA	ND	ND
6	CADMIUM	1.5	1.7	3.0	2.1	NA	3.7	2.4
7	CALCIUM	J [319]	J 4870	J 3690	J 8720	NA	J 3120	J 4150
8	CHROMIUM	L 94	L 127	L 134	L 104	NA	L 40	L 24
9	COBALT	ND	[3.0]	ND	[2.6]	NA	ND	[2.6]
10	COPPER	37900	60600	65800	46600	NA	28200	127000
11	IRON	J [950]	J 9450	J 8260	J 8760	NA	J 1320	J 4270
12	LEAD	15800	19400	16100	14700	NA	2100	2870
13	MAGNESIUM	[58]	1150	[493]	[883]	NA	[480]	1110
14	MANGANESE	B 4.2	J 54	J 41	J 127	NA	J 20	J 191
15	MERCURY	ND	ND	ND	ND	NA	ND	L 0.3
16	NICKEL	ND	24	16	14	NA	13	13
17	POTASSIUM	ND	[370]	[249]	[424]	NA	ND	[260]
19	SILVER	ND	ND	ND	ND	NA	3.2	5.7
20	SODIUM	B [60]	B [87]	B [102]	B [144]	NA	B [69]	B [52]
24	ZINC	L 296	L 157	L 403	L 378	NA	L 521	L 634

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

[] = APPROXIMATE VALUE

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302060

AR302060

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: MS-WA008-1 MS-WA009-1 MS-WA010-1 MS-WA010-1A MS-WA011-1 MS-WA013-1 MS-WA014-1
 TRAFFIC REPORT NUMBER: LOC. 8 LOC. 9 LOC. 10 LOC. 10 LOC. 11 LOC. 13 LOC. 14
 LOCATION: CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE
 % MOISTURE: 06/14/88 06/14/88 06/14/88 06/14/88 06/14/88 06/15/88 06/15/88
 DESCRIPTION: 17.6 16.4 10900 11 14.9 2.1 5800 23.0 0.97
 UNITS: PERCENT ASH @ 775C
 DATE SAMPLED: WATER CONTENT %
 HEAT OF COMBUSTION BTU/LB
 % CHLORINE
 SPECIFIC GRAVITY

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND
		PERCENT ASH @ 775C
		WATER CONTENT %
		HEAT OF COMBUSTION BTU/LB
		% CHLORINE
		SPECIFIC GRAVITY

AR302061

AR302061

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA015-1
3785
LOC. 15
FLUFF WASTE
UG/KG
06/15/88

MS-WA016-1
3786
LOC. 16
FLUFF WASTE
UG/KG
06/15/88

MS-WA017-1
3787
LOC. 17
FLUFF WASTE
UG/KG
06/15/88

MS-WA018-1
3788
LOC. 18
FLUFF WASTE
UG/KG
06/15/88

MS-WA019-1
3789
LOC. 19
FLUFF WASTE
UG/KG
06/15/88

MS-WA020-1
3790
LOC. 20
FLUFF WASTE
UG/KG
06/15/88

MS-WA021-1
3791
LOC. 21
FLUFF WASTE
UG/KG
06/15/88

*** VOLATILES ***

PP CAS NO COMPOUND

67-64-1 ACETONE
78-93-3 2-BUTANONE
84V 108-88-3 TOLUENE
38V 100-41-4 ETHYLBENZENE
15V 95-47-6 TOTAL XYLENES
14V 79-34-5 1,1,2,2-TETRACHLOROETHANE
85V 79-00-5 1,1,2-TRICHLOROETHANE
87V 79-01-6 TETRACHLOROETHENE
30V 156-60-5 TRANS-1,2-DICHLOROETHENE
23V 67-66-3 CHLOROFORM
44V 75-09-2 METHYLENE CHLORIDE
75-15-0 CARBON DISULFIDE

B 4700
ND
L 1100
ND
ND
ND
ND
L 1900
ND
ND
ND
B 7000
ND

B 11000
J 6400
J 1400
ND
ND
ND
ND
J 3200
ND
ND
ND
B 9600
ND

B 14000
J 4100
ND
ND
ND
ND
ND
ND
B 10000
ND

B 8800
J 5200
J 1100
ND
ND
ND
ND
J 1600
ND
ND
ND
B 9600
ND

B 8200
J 3600
J 520
ND
ND
ND
ND
J 720
ND
ND
ND
B 8100
ND

B 7900
J 5900
J 2000
ND
ND
ND
ND
J 4200
ND
ND
ND
B 9400
ND

ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
B 3500
ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302062

AR302062

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
X MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA015-1	MS-WA016-1	MS-WA017-1	MS-WA018-1	MS-WA019-1	MS-WA020-1	MS-WA021-1
3785	3786	3787	3788	3789	3790	3791
LDC. 15	LDC. 16	LDC. 17	LDC. 18	LDC. 19	LDC. 20	LDC. 21
FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

668 117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE
698 117-84-0 DI-N-OCTYL PHTHALATE
65-85-0 BENZOIC ACID

J	J	J	J	J	J	J
160000000	170000000	200000000	230000000	130000000	130000000	150000000
J 130000000	J 7100000	J 8200000	ND	J 4600000	J 1800000	ND
ND	ND	ND	ND	ND	ND	ND

AR302063

AR302063

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

(J) = APPROXIMATE VALUE

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA015-1 3785 LOC. 15 FLUFF WASTE UG/KG 06/15/88	MS-WA016-1 3786 LOC. 16 FLUFF WASTE UG/KG 06/15/88	MS-WA017-1 3787 LOC. 17 FLUFF WASTE UG/KG 06/15/88	MS-WA018-1 3788 LOC. 18 FLUFF WASTE UG/KG 06/15/88	MS-WA019-1 3789 LOC. 19 FLUFF WASTE UG/KG 06/15/88	MS-WA020-1 3790 LOC. 20 FLUFF WASTE UG/KG 06/15/88	MS-WA021-1 3791 LOC. 21 FLUFF WASTE UG/KG 06/15/88
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*** ACIDS ***

PP	CAS NO	COMPOUND
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NO PARAMETERS FOR THIS CATEGORY

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C) = APPROXIMATE VALUE
 N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302064

AR302064

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA015-1	MS-WA016-1	MS-WA017-1	MS-WA018-1	MS-WA019-1	MS-WA020-1	MS-WA021-1
3785	3786	3787	3788	3789	3790	3791
LOC. 15	LOC. 16	LOC. 17	LOC. 18	LOC. 19	LOC. 20	LOC. 21
0	0	0	0	0	0	0
FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88

*** PESTICIDES ***

PP CAS NO COMPOUND

106P 53469-21-9 AROCLOR-1242
 107P 11097-69-1 AROCLOR-1254

PP	CAS NO	COMPOUND	MS-WA015-1	MS-WA016-1	MS-WA017-1	MS-WA018-1	MS-WA019-1	MS-WA020-1	MS-WA021-1
106P	53469-21-9	AROCLOR-1242	ND	ND	ND	ND	ND	ND	ND
107P	11097-69-1	AROCLOR-1254	J 6430	J 8880	J 898	J 11200	J 2430	J 17800	J 6100

AR302065

AR302065

NOTES :

- B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
- J = APPROXIMATE VALUE
- () = APPROXIMATE VALUE
- N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
- L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
- ND = NOT DETECTED - NA = NOT ANALYZED - NK = DATA NOT REPORTED BY LABORATORY

MW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:		MS-WA015-1	MS-WA016-1	MS-WA017-1	MS-WA018-1	MS-WA019-1	MS-WA020-1	MS-WA021-1
TRAFFIC REPORT NUMBER:		127404	127409	127413	127417	127421	127425	127431
LOCATION:		LOC. 15	LOC. 16	LOC. 17	LOC. 18	LOC. 19	LOC. 20	LOC. 21
X MOISTURE:		0	8	1	1	12	1	1
DESCRIPTION:		FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE
UNITS:		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
DATE SAMPLED:		06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88

*** INORGANICS ***

PP	CAS NO	COMPOUND
1		ALUMINUM
2		ANTIMONY
3		ARSENIC
4		BARIUM
5		BERYLLIUM
6		CADMIUM
7		CALCIUM
8		CHROMIUM
9		COBALT
10		COPPER
11		IRON
12		LEAD
13		MAGNESIUM
14		MANGANESE
15		MERCURY
16		NICKEL
17		POTASSIUM
18		SILVER
19		SODIUM
20		ZINC
24		

325	632	478	374	395	392	742
B 42	B 22	L 121	B [10]	L 80	L 108	B 6.4
ND	ND	ND	ND	ND	ND	ND
42	58	[20]	100	141	60	75
ND	[0.30]	ND	[0.16]	ND	ND	ND
4.0	1.3	[0.65]	3.2	3.6	1.3	2.0
J 2930	J 3080	J 1780	J 1850	J 1410	J 4850	J 4250
L 28	L 39	L 57	L 37	L 56	L 42	L 34
ND	ND	ND	ND	ND	ND	ND
130000	72800	5910	89100	12400	41200	113000
J 406	J 1190	J 162	J 454	J 542	J 534	J 2050
2100	1720	2030	1720	1880	2600	1600
[166]	[256]	[69]	[135]	[209]	[388]	[346]
B 6.6	B 8.1	B [1.7]	B 4.4	B 6.5	B 5.7	J 24
ND	ND	ND	ND	ND	ND	L 0.2
ND	[7.7]	ND	ND	ND	[4.1]	[6.4]
ND	ND	ND	ND	ND	ND	[128]
3.8	2.2	ND	2.7	ND	ND	3.5
B [41]	B [40]	B [54]	B [39]	B [39]	B [45]	B [46]
L 320	L 636	L 288	L 380	L 135	L 2580	L 1490

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE

K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302066

AR302066

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA015-1	MS-WA016-1	MS-WA017-1	MS-WA018-1	MS-WA019-1	MS-WA020-1	MS-WA021-1
NA	NA	NA	NA	NA	NA	NA
LOC. 15	LOC. 16	LOC. 17	LOC. 18	LOC. 19	LOC. 20	LOC. 21
0	8	1	1			
FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE
06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88	06/15/88

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND
		PERCENT ASH @ 775C
		WATER CONTENT %
		HEAT OF COMBUSTION BTU/LB
		% CHLORINE
		SPECIFIC GRAVITY

NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA

AR302067

AR302067

MW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA022-1 3792 LOC. 22	MS-WA023-1 3793 LOC. 23	MS-WA024-1 3794 LOC. 24	MS-WA025-1 3795 LOC. 25	MS-WA025-1A 3800 LOC. 25	MS-WA026-1 3796 LOC. 26	MS-WA027-1 3797 LOC. 27
FLUFF WASTE UG/KG 06/16/88	FLUFF WASTE UG/KG 06/16/88	FLUFF WASTE UG/KG 06/16/88	FLUFF WASTE UG/KG 06/16/88	DUPLICATE UG/KG 06/16/88	FLUFF WASTE UG/KG 06/16/88	FLUFF WASTE UG/KG 06/16/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
----	--------	----------

67-64-1		ACETONE
78-93-3		2-BUTANONE
86V 108-88-3		TOLUENE
38V 100-41-4		ETHYL BENZENE
15V 95-47-6		TOTAL XYLENES
14V 79-34-5		1,1,2,2-TETRACHLOROETHANE
85V 79-00-5		1,1,2-TRICHLOROETHANE
87V 127-18-4		TETRACHLOROETHENE
30V 79-01-6		TRICHLOROETHENE
23V 156-60-5		TRANS-1,2-DICHLOROETHENE
44V 67-66-3		CHLOROFORM
75-09-2		METHYLENE CHLORIDE
75-15-0		CARBON DISULFIDE

ND	ND	ND	ND	ND	ND	ND
ND	L 2800	ND	ND	ND	ND	ND
J 1100	ND	J 250	ND	ND	J 540	J 250
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
J 1000	L 1600	J 4800	J 1600	J 3900	J 1900	J 9600
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
B 5800	L 7700	B 7400	B 6900	B 7400	B 8900	B 7100
ND	ND	ND	ND	ND	ND	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
L = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302068

AR302068

MW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA022-1	MS-WA023-1	MS-WA024-1	MS-WA025-1	MS-WA025-1A	MS-WA026-1	MS-WA027-1
3792	3793	3794	3795	3800	3796	3797
LOC. 22	LOC. 23	LOC. 24	LOC. 25	LOC. 25	LOC. 26	LOC. 27
FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	DUPLICATE	FLUFF WASTE	FLUFF WASTE
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/16/88	06/16/88	06/16/88	06/16/88	06/16/88	06/16/88	06/16/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

668	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
698	117-84-0	DI-N-OCTYL PHTHALATE
65-85-0		BENZOIC ACID

J 200000000	J 150000000	J 140000000	J 150000000	J 170000000	J 150000000	J 100000000
J 2700000	J 2700000	ND	J 8500000	J 9700000	J 4200000	ND
ND	ND	ND	ND	ND	ND	ND

AR302069

AR302069

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
LJ = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 Z MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA022-1 3792 LOC. 22 FLUFF WASTE UG/KG 06/16/88	MS-WA023-1 3793 LOC. 23 FLUFF WASTE UG/KG 06/16/88	MS-WA024-1 3794 LOC. 24 FLUFF WASTE UG/KG 06/16/88	MS-WA025-1 3795 LOC. 25 FLUFF WASTE UG/KG 06/16/88	MS-WA025-1A 3800 LOC. 25 DUPLICATE UG/KG 06/16/88	MS-WA026-1 3796 LOC. 26 FLUFF WASTE UG/KG 06/16/88	MS-WA027-1 3797 LOC. 27 FLUFF WASTE UG/KG 06/16/88
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*** ACIDS ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302070

AR302070

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:
% MOISTURE:

DESCRIPTION:
UNITS:

DATE SAMPLED:

MS-WA022-1	MS-WA023-1	MS-WA024-1	MS-WA025-1	MS-WA025-1A	MS-WA026-1	MS-WA027-1
3792	3793	3794	3795	3800	3796	3797
LOC. 22	LOC. 23	LOC. 24	LOC. 25	LOC. 25	LOC. 26	LOC. 27
0	0	10	0	0	0	0
FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	FLUFF WASTE	DUPLICATE	FLUFF WASTE	FLUFF WASTE
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/16/88	06/16/88	06/16/88	06/16/88	06/16/88	06/16/88	06/16/88

*** PESTICIDES ***

PP CAS NO COMPOUND

106P 53469-21-9 ARDCLDR-1242
107P 11097-69-1 ARDCLDR-1254

PP	CAS NO	COMPOUND	ND	J	ND	J	ND	J	ND	J	ND	J
106P	53469-21-9	ARDCLDR-1242	ND	J 18100	ND	J 7310	ND	J 11600	ND	J 5520	ND	J 13000
107P	11097-69-1	ARDCLDR-1254	ND	J 18100	ND	J 7310	ND	J 11600	ND	J 5520	ND	J 13000

AR302071

AR302071

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

CJ = APPROXIMATE VALUE

K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 Z MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA022-1 119454 LOC. 22 2 FLUFF WASTE MG/KG 06/16/88
 MS-WA023-1 119458 LOC. 23 1 FLUFF WASTE MG/KG 06/16/88
 MS-WA024-1 119463 LOC. 24 1 FLUFF WASTE MG/KG 06/16/88
 MS-WA025-1 119467 LOC. 25 1 FLUFF WASTE MG/KG 06/16/88
 MS-WA025-1A 119471 LOC. 25 2 DUPLICATE MG/KG 06/16/88
 MS-WA026-1 119475 LOC. 26 2 FLUFF WASTE MG/KG 06/16/88
 MS-WA027-1 119479 LOC. 27 14 FLUFF WASTE MG/KG 06/16/88

*** INORGANICS ***

PP CAS NO COMPOUND

1 ALUMINUM
 2 ANTIMONY
 3 ARSENIC
 4 BARIUM
 5 BERYLLIUM
 6 CADMIUM
 7 CALCIUM
 8 CHROMIUM
 9 COBALT
 10 COPPER
 11 IRON
 12 LEAD
 13 MAGNESIUM
 14 MANGANESE
 15 MERCURY
 16 NICKEL
 17 POTASSIUM
 18 SILVER
 19 SODIUM
 20 ZINC

267 L 85 ND
 L 142 [0.18] 2.2
 3780 L 47 ND
 J 60500 J 290 2740 [152] B 5.0 K 0.2
 ND ND
 K 2.6 [40] K 364
 591 L 126 ND
 L 64 ND
 2.1 7350 L 55 ND
 J 20600 J 407 3230 [294] B 6.3 ND
 ND ND
 [4.4] ND ND
 K 2.6 [40] K 364
 569 L 143 ND
 L 61 [0.11] 1.7 3790 L 44 ND
 J 30000 J 625 2950 [183] B 7.2 K 0.2
 ND ND
 [1.6] ND ND
 B [44] K 275
 864 L 122 ND
 L 85 [0.06] 4.4 8120 L 42 ND
 J 25100 J 1010 3600 [714] J 15 ND
 ND ND
 13 ND ND
 K [1.6] ND ND
 B [46] K 858
 598 L 130 ND
 L 76 [0.36] 2.2 8340 L 47 ND
 J 43200 J 654 2890 [352] J 13 ND
 ND ND
 15 ND ND
 [4.8] [97] K 2.2 B [55] K 169
 1820 L 83 ND
 L 92 [0.22] 2.7 3560 L 43 ND
 J 19300 J 2680 2280 [678] J 56 ND
 ND ND
 13 [230] K [1.7] B [50] K 518
 900 R 27 ND
 L 132 ND 2.0 1660 L 38 ND
 J 11700 J 859 2090 [229] B 9.4 ND
 [4.8] [97] K 2.2 B [55] K 169

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

[J] = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NK = DATA NOT REPORTED BY LABORATORY

AR302072

AR302072

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

[illegible][illegible]

PERCENT ASH @ 775C
WATER CONTENT %
HEAT OF COMBUSTION BTU/LB
% CHLORINE
SPECIFIC GRAVITY

Variable	Mean	SD	Min	Max
Age	38.5	12.5	25	65
Gender	0.5	0.5	0	1
Marital Status	0.6	0.5	0	1
Education	12.5	2.5	9	16
Income	45000	15000	20000	80000
Health	0.8	0.2	0	1
Stress	0.7	0.3	0	1
Depression	0.4	0.5	0	1
Loneliness	0.6	0.4	0	1
Life Satisfaction	0.5	0.5	0	1
Resilience	0.6	0.4	0	1
Optimism	0.7	0.3	0	1
Gratitude	0.8	0.2	0	1
Forgiveness	0.6	0.4	0	1
Empathy	0.7	0.3	0	1
Compassion	0.8	0.2	0	1
Kindness	0.9	0.1	0	1
Generosity	0.7	0.3	0	1
Patience	0.8	0.2	0	1
Self-control	0.9	0.1	0	1
Emotional Stability	0.7	0.3	0	1
Psychological Well-being	0.8	0.2	0	1
Life Purpose	0.6	0.4	0	1
Meaning in Life	0.7	0.3	0	1
Existential Well-being	0.8	0.2	0	1
Transcendental Well-being	0.9	0.1	0	1
Overall Well-being	0.7	0.3	0	1

AR302073

ARG 02173

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA028-1
 3798
 LOC. 28
 FLUFF WASTE
 UG/KG
 06/16/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
----	--------	----------

67-64-1		ACETONE	ND
78-93-3		2-BUTANONE	ND
86V 108-88-3		TOLUENE	ND
38V 100-41-4		ETHYLBENZENE	ND
95-47-6		TOTAL XYLENES	ND
15V 79-34-5		1,1,2,2-TETRACHLOROETHANE	ND
14V 79-00-5		1,1,2-TRICHLOROETHANE	ND
85V 127-18-4		TETRACHLOROETHENE	ND
87V 79-01-6		TRICHLOROETHENE	J 7400
30V 156-60-5		TRANS-1,2-DICHLOROETHENE	ND
23V 67-66-3		CHLOROFORM	ND
44V 75-09-2		METHYLENE CHLORIDE	B 8300
75-15-0		CARBON DISULFIDE	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302074

AR302074

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: MS-WA028-1
 TRAFFIC REPORT NUMBER: 3798
 LOCATION: LOC. 28
 Z NOISTURE: FLUFF WASTE
 DESCRIPTION: UG/KG
 UNITS: 06/16/88
 DATE SAMPLED: -----

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND
668	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
698	117-84-0	DI-N-OCTYL PHTHALATE
45-85-0		BENZOIC ACID

J 130000000
 J 30000000
 ND

AR302075

AR302075

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C) = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = DATA NOT REPORTED BY LABORATORY

MW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA028-1
 3798
 LOC. 28

FLUFF WASTE
 UG/KG
 06/16/88

*** ACIDS ***

PP	CAS NO	COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES :

B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C) = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302076

AR302076

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: MS-WA028-1
 TRAFFIC REPORT NUMBER: 3798
 LOCATION: LOC. 28
 % MOISTURE: 0
 DESCRIPTION: FLUFF WASTE
 UNITS: UG/KG
 DATE SAMPLED: 06/16/88

*** PESTICIDES ***

PP	CAS NO	COMPOUND
10AP	53469-21-9	ARDCLOX-1242
107P	11097-69-1	ARDCLOX-1254

ND
 J 5780

AR302077

AR302077

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA028-1
 119483
 LOC. 28
 31
 FLUFF WASTE
 MG/KG
 06/16/88

*** INORGANICS ***

PP	CAS NO	COMPOUND
----	--------	----------

1		ALUMINUM
2		ANTIMONY
3		ARSENIC
4		BARIUM
5		BERYLLIUM
6		CADMIUM
7		CALCIUM
8		CHROMIUM
9		COBALT
10		COPPER
11		IRON
12		LEAD
13		MAGNESIUM
14		MANGANESE
15		MERCURY
16		NICKEL
17		POTASSIUM
19		SILVER
20		SODIUM
24		ZINC

654
L 104
ND
L 94
ND
1.9
2780
L 59
ND
J 13800
J 571
2650
420
B 8.0
ND
ND
ND
K 2.1
B 1583
K 206

NOTES :
 D = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302078

AR302078

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: HS-WA028-1
 TRAFFIC REPORT NUMBER: NA
 LOCATION: LOC. 28
 % MOISTURE: FLUFF WASTE
 DESCRIPTION: NA
 UNITS: NA
 DATE SAMPLED: 06/16/88

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND	PERCENT ASH @ 775C
		WATER CONTENT %	NA
		HEAT OF COMBUSTION BTU/LB	NA
		% CHLORINE	NA
		SPECIFIC GRAVITY	NA

AR302079

AR302079

APPENDIX E.1.2

FLUFF WASTE AND CARBON WASTE
TCLP ANALYSIS

AR302080

AR302080

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
Z MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-WA007-1-TCLPMS-WA008-1-TCLPMS-WA013-1-TCLPMS-WA014-1-TCLP
TCLP DATA TCLP DATA TCLP DATA TCLP DATA

CARBON WASTE CARBON WASTE FLUFF WASTE FLUFF WASTE
UG/L UG/L UG/L UG/L
06/16/88 06/16/88 06/16/88 06/16/88

*** VOLATILES ***

PP CAS NO COMPOUND

67-64-1 ACETONE
86V 108-88-3 TOLUENE
14V 79-00-5 1,1,2-TRICHLOROETHANE
85V 127-18-4 TETRACHLOROETHENE
44V 75-09-2 METHYLENE CHLORIDE

B 350 ND B 54 B 52
ND ND ND 6
650 1700 9 ND
1400 4500 33 ND
B 70 ND B 14 B 61

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

CJ = APPROXIMATE VALUE

K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302081

AR302081

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 Z MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA007-1-TCLPHS-WA008-1-TCLPHS-WA013-1-TCLPHS-WA014-1-TCLP
 TCLP DATA TCLP DATA TCLP DATA

CARBON WASTE CARBON WASTE CARBON WASTE FLUFF WASTE
 UG/L UG/L UG/L UG/L
 06/16/88 06/16/88 06/16/88 06/16/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

668 117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE
 698 117-84-0 DI-N-OCTYL PHTHALATE
 688 84-74-2 DI-N-BUTYL PHTHALATE
 708 84-66-2 DIETHYL PHTHALATE
 628 86-30-6 N-NITROSODIPHENYLAMINE
 65-85-0 BENZOIC ACID
 100-51-6 BENZYL ALCOHOL

J 3 ND J 400 J 62
 ND ND B 38 B 15
 B 5 B 7 B 6
 ND ND J 4
 B 13 B 7 B 6
 ND J 6 J 94
 B 4 B 12 J 20

AR302082

AR302082

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

[] = APPROXIMATE VALUE

K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 Z MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-WA007-1-TCLPHS-WA008-1-TCLPHS-WA013-1-TCLPHS-WA014-1-TCLP
 TCLP DATA TCLP DATA TCLP DATA

CARBON WASTE CARBON WASTE CARBON WASTE CARBON WASTE
 UG/L UG/L UG/L UG/L
 06/16/88 06/16/88 06/16/88 06/16/88

*** ACIDS ***

PP CAS NO COMPOUND

65A 108-95-2 PHENOL
 106-44-5 4-METHYLPHENOL
 34A 105-67-9 2,4-DIMETHYLPHENOL

ND ND ND ND
 ND ND ND ND
 ND ND ND ND

NOTES :
 B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302083

AR302083

HW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: MS-WA007-1-TCLPMS-WA008-1-TCLPMS-WA013-1-TCLPMS-WA014-1-TCLP
 TRAFFIC REPORT NUMBER: TCLP DATA TCLP DATA TCLP DATA
 LOCATION: TCLP DATA
 X MOISTURE: CARBON WASTE CARBON WASTE CARBON WASTE FLUFF WASTE
 DESCRIPTION: UG/L UG/L UG/L UG/L
 UNITS: 06/16/88 06/16/88 06/16/88 06/16/88
 DATE SAMPLED: -----

*** PESTICIDES ***

PP CAS NO COMPOUND

100P 76-44-8 HEPTACHLOR ND ND J 0.28 J 0.17

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302084

AR302084

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: NS-WA007-1-TCLPHS-WA008-1-TCLPHS-WA013-1-TCLPHS-WA014-1-TCLP
 TRAFFIC REPORT NUMBER: TCLP DATA TCLP DATA
 LOCATION: TCLP DATA
 % MOISTURE: CARBON WASTE CARBON WASTE FLUFF WASTE
 DESCRIPTION: UG/L UG/L UG/L
 UNITS: 06/16/88 06/16/88 06/16/88
 DATE SAMPLED: 06/16/88

*** INORGANICS ***

PP	CAS NO	COMPOUND	B 428	B 505	B 295	B 473
1		ALUMINUM	B 118	B 249	B 344	B 287
2		ANTIMONY	ND	ND	ND	J [4.6]
3		ARSENIC	J 450	J 471	B 262	B 222
4		BARIUM	462	ND	B 5	ND
5		BERYLLIUM	492	B 21	SI	60
6		CADMIUM	J 2697	J 45755	J 7127	J 28376
7		CALCIUM	497	B 43	B 23	B 18
8		CHROMIUM	419	ND	ND	ND
9		COBALT	J 457	J 557600	J 147360	J 72573
10		COPPER	B 502	B 158	B 246	B 213
11		IRON	B 578	J 48500	J 9453	J 8335
12		LEAD	B 514	B 654	B 246	B 559
13		MAGNESIUM	J 474	J 197	J 77	J 1110
14		MANGANESE	ND	0.3	ND	ND
15		MERCURY	J 512	B 89	B 50	B 58
16		NICKEL	B 3070	B 1560	B 2140	B 2360
17		POTASSIUM	420	B 26	B 172	ND
19		SILVER	454	ND	ND	ND
23		VANADIUM	497	2885	9763	14360
24		ZINC				

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = DATA NOT REPORTED BY LABORATORY

AR302085
 AR302085

NW MANUFACTURING SITE - WASTE SAMPLES (CARBON AND FLUFF)

SAMPLE NUMBER: MS-WA007-1-TCLPHS-WA008-1-TCLPHS-WA013-1-TCLPHS-WA014-1-TCLP
 TRAFFIC REPORT NUMBER: TCLP DATA TCLP DATA TCLP DATA
 LOCATION: CARBON WASTE CARBON WASTE CARBON WASTE FLUFF WASTE FLUFF WASTE
 Z MOISTURE: 06/16/88 06/16/88 06/16/88 06/16/88 06/16/88
 DESCRIPTION: DATE SAMPLED: 06/16/88 06/16/88 06/16/88 06/16/88 06/16/88
 UNITS: -----
 DATE SAMPLED: -----

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND

pH	6.05	5.70	ND	ND	ND

AR302086

AR302086

APPENDIX E.2.0
WASTE IN DRUMS AND BARRELS

AR302087

AR302087

MW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-BS001-1 10-001 LOC. 1	MS-BS002-1 10-002 LOC. 2	MS-BS003-1 10-003 LOC. 3	MS-BS004-1 10-004 LOC. 4	MS-BS005-1 10-005 LOC. 5	MS-BS006-1 10-006 LOC. 6	MS-BS007-1 10-007 LOC. 7
UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
----	--------	----------

67-64-1		ACETONE
78-93-3		2-BUTANONE
591-78-6		2-HEXANONE
4V 71-43-2		BENZENE
86V 108-88-3		TOLUENE
95-47-6		TOTAL XYLENES
14V 79-00-5		1,1,2-TRICHLOROETHANE
85V 127-18-4		TETRACHLOROETHENE
87V 79-01-6		TRICHLOROETHENE
44V 75-09-2		METHYLENE CHLORIDE
45V 74-87-3		CHLOROMETHANE
75-15-0		CARBON DISULFIDE

B 1200000	B 390000	ND	B 74000	B 1700000	B 5800	B 23000
ND	ND	ND	ND	B 1500000	B 5800	B 22000
ND	ND	ND	ND	ND	ND	ND
J 210000	ND	ND	ND	ND	ND	ND
B 360000	ND	ND	B 2100	B 64000	B 490	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	J 380000	J 14000	ND	ND	ND
L 14000000	L 7400000	L 18000000	L 530000	L 680000	ND	L 29000
ND	ND	ND	ND	L 20000000	ND	L 310000
R 1100000	B 1100000	B 1100000	B 120000	B 1500000	B 930	B 19000
ND	ND	ND	ND	ND	J 560	ND
R 45000	ND	ND	B 17000	ND	ND	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
UNC = WOULD NOT COMBUST

AR302088

AR302088

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:	MS-B5001-1	MS-B5002-1	MS-B5003-1	MS-B5004-1	MS-B5005-1	MS-B5006-1	MS-B5007-1
TRAFFIC REPORT NUMBER:	10-001	10-002	10-003	10-004	10-005	10-006	10-007
LOCATION:	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
DESCRIPTION:							
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
DATE SAMPLED:	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88

*** BASE/NEUTRALS ***

FP	CAS NO	COMPOUND	B 170000	B 51000	B 53000	B 100000	B 36000	J 320000	B 62000
669	117-81-7	BIS(2-ETHYLNEXYL)PHTHALATE	ND	ND	J 4000	J 4000	J 2000	J 7000	J 5000
698	117-84-0	DI-N-OCTYL PHTHALATE	J 15000	ND	ND	ND	ND	ND	ND
688	84-74-2	DI-N-BUTYL PHTHALATE	ND	ND	ND	J 3000	ND	ND	ND
678	85-68-7	BUTYL BENZYL PHTHALATE	ND	ND	ND	ND	ND	ND	J 4000
718	131-11-3	DIMETHYL PHTHALATE	ND	ND	ND	ND	ND	ND	ND
788	120-12-7	ANTHRACENE	ND	ND	ND	ND	ND	ND	ND
728	56-55-3	BENZO(A)ANTHRACENE	J 8000	J 5000	J 5000	ND	ND	ND	J 3000
768	218-01-9	CHRYSENE	J 5000	ND	ND	ND	ND	ND	ND
398	206-44-0	FLUORANTHENE	ND	ND	J 4000	ND	ND	ND	ND
808	86-73-7	FLUDRENE	ND	J 3000	J 2000	ND	ND	J 2000	J 3000
558	91-20-3	NAPHTHALENE	J 9000	J 4000	ND	ND	ND	ND	J 4000
		2-METHYLNAPHTHALENE	32000	J 18000	J 8000	ND	ND	J 5000	J 13000
818	85-01-8	PHENANTHRENE	J 11000	J 4000	ND	ND	ND	ND	ND
848	129-00-0	PYRENE	J 4000	ND	ND	ND	ND	ND	ND
95	50-1	1,2-DICHLOROBENZENE	J 9000	ND	ND	ND	ND	ND	ND
88	120-82-1	1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
65	85-0	BENZOIC ACID	ND	ND	ND	ND	ND	ND	J 42000
548	78-53-1	ISOPHORENE	J 13000	ND	ND	ND	ND	ND	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
WNC = WOULD NOT COMBUST

AR302089

AR302089

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER: MS-B5001-1 MS-B5002-1 MS-B5003-1 MS-B5004-1 MS-B5005-1 MS-B5006-1 MS-B5007-1
 TRAFFIC REPORT NUMBER: 10-001 10-002 10-003 10-004 10-005 10-006 10-007
 LOCATION: LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5 LOC. 6 LOC. 7
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88
 DATE SAMPLED:

*** ACIDS ***

FP	CAS NO	COMPOUND
65A	108-95-2	PHENOL
	106-44-5	4-METHYLPHENOL

ND ND ND ND ND ND ND
 ND ND ND ND ND ND ND
 J 12000 J 11000
 ND ND ND ND ND ND ND
 ND ND ND ND ND ND ND

AR302090

AR302090

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED
 MNC = WOULD NOT COMBUST

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:	MS-BS001-1	MS-BS002-1	MS-BS003-1	MS-BS004-1	MS-BS005-1	MS-BS006-1	MS-BS007-1
TRAFFIC REPORT NUMBER:	10-001	10-002	10-003	10-004	10-005	10-006	10-007
LOCATION:	LDC. 1	LDC. 2	LDC. 3	LDC. 4	LDC. 5	LDC. 6	LDC. 7
DESCRIPTION:							
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
DATE SAMPLED:	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88

*** PESTICIDES ***

FP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
WNC = WOULD NOT COMBUST

AR302091

AR302091

MW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-RS001-1
001-11
LOC. 1
MG/KG
08/09/88

MS-RS002-1
002-11
LOC. 2
MG/KG
08/09/88

MS-RS003-1
003-11
LOC. 3
MG/KG
08/09/88

MS-RS004-1
004-11
LOC. 4
MG/KG
08/09/88

MS-RS005-1
005-11
LOC. 5
MG/KG
08/09/88

MS-RS006-1
006-11
LOC. 6
MG/KG
08/09/88

MS-RS007-1
007-11
LOC. 7
MG/KG
08/09/88

*** INORGANICS ***

FP CAS NO COMPOUND

1 ALUMINUM
2 ANTIMONY
4 BARIUM
7 CALCIUM
8 CHROMIUM
10 COPPER
11 IRON
12 LEAD
13 MAGNESIUM
14 MANGANESE
15 MERCURY
16 NICKEL
20 SODIUM
24 ZINC

2050
L 66
ND
1220
L 156
56400
2790
30400
892
ND
ND
ND
15900
662

R 1200
ND
ND
ND
L 100
20100
1030
43500
ND
ND
ND
ND
4160
416

2310
L 741
ND
16900
L 179
41700
3700
23900
888
ND
ND
102
9540
1090

6810
L 2200
ND
3530
L 171
211000
25000
12700
2430
119
0.38
ND
10200
720

R 769
L 1933
ND
9800
L 139
55800
3540
27900
ND
66
ND
46
ND
428

B 723
L 281
ND
6610
L 118
496000
474
20000
ND
ND
ND
ND
9740
655

1650
L 22
ND
1690
L 69
8450
397
66500
ND
ND
ND
0.34
ND
ND
375

NOTES :
B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
NMC = WOULD NOT COMBUST

AR302092

AR302092

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER: MS-BS001-1 MS-BS002-1 MS-BS003-1 MS-BS004-1 MS-BS005-1 MS-BS006-1 MS-BS007-1
 TRAFFIC REPORT NUMBER: LDC. 1 LDC. 2 LDC. 3 LDC. 4 LDC. 5 LDC. 6 LDC. 7
 LOCATION: MB/KG MB/KG MB/KG MB/KG MB/KG MB/KG MB/KG
 DESCRIPTION: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88
 UNITS: MB/KG MB/KG MB/KG MB/KG MB/KG MB/KG MB/KG
 DATE SAMPLED: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88

*** GEOCHEMICAL PARAMETERS ***

PP CAS NO COMPOUND

BRITISH TERNAL UNITS BTU/lb
 PERCENT MOISTURE 12000 13600 2900 4800 6000 9700 12300
 PERCENT ASH # 775C 6.5 0.9 11 13 24 1.4 1.8
 SILICON 18.5 14.7 70.0 47.9 26.3 59.0 14.6
 TITANIUM 4670 2130 7700 40800 1720 2840 2840
 SIEVE SIZE 3/4 2210 1370 2000 2080 4680 994 2520
 SIEVE SIZE 3/8 100.0 100.0 100.0 100.0 100.0 100.0 100.0
 SIEVE SIZE NO. 4 ND 99.4 98.3 99.2 99.2 99.2 99.2
 SIEVE SIZE NO. 10 100.0 98.1 98.1 96.6 96.6 96.6 96.6
 SIEVE SIZE NO. 40 61.6 83.9 83.9 63.3 63.3 63.3 63.3
 SIEVE SIZE NO. 200 5.5 72.1 72.1 33.8 38.1 38.1 38.1
 PARTICLE SIZE (MM) 0.021 50.3 50.3 12.9 28.8 28.8 28.8
 PARTICLE SIZE (MM) 0.006 66.6 66.6 10.4 18.9 18.9 18.9
 PARTICLE SIZE (MM) 0.001 39.3 39.3 4.3 7.9 7.9 7.9
 SPECIFIC GRAVITY 1.16 1.16 2.36 1.20 1.69 1.69 1.12

AR302093

AR302093

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-BS008-1
10-008
LOC. 8
UG/KG
08/09/88

MS-BS009-1
10-009
LOC. 9
UG/KG
08/09/88

MS-BS010-1
10-010
LOC. 10
UG/KG
08/09/88

MS-BS010-1A
10-011
LOC. 10
DUPLICATE
UG/KG
08/09/88

MS-BS011-1
10-012
LOC. 11
UG/KG
08/09/88

MS-BS012-1
10-013
LOC. 12
UG/KG
08/09/88

MS-BS013-1
10-014
LOC. 13
UG/KG
08/09/88

*** VOLATILES ***

PP CAS NO COMPOUND

67-64-1 ACETONE
78-93-3 2-BUTANONE
591-78-6 2-HEXANONE
4V 71-43-2 BENZENE
86V 108-88-3 TOLUENE
95-47-6 TOTAL XYLENES
14V 79-00-5 1,1,2-TRICHLOROETHANE
85V 127-18-4 TETRACHLOROETHENE
87V 79-01-6 TRICHLOROETHENE
44V 75-09-2 METHYLENE CHLORIDE
45V 74-87-3 CHLOROMETHANE
75-15-0 CARBON DISULFIDE

R 540000
ND
ND
ND
B 26000
ND
L 250000
L 4900000
ND
B 930000
ND
ND

R 3900
ND
ND
ND
B 370
ND
ND
L 3600
L 18000
B 870
ND
ND

B 1800000
ND
ND
ND
ND
ND
J 120000
L 8800000
ND
B 1300000
ND
ND

B 1100000
ND
ND
ND
ND
ND
J 110000
L 8600000
ND
B 1400000
ND
ND

R 13000000
ND
ND
ND
ND
ND
ND
L 12000000
ND
B 1400000
ND
ND

R 1200000
ND
ND
ND
ND
ND
L 590000
L 18000000
ND
B 1300000
ND
ND

B 6800
ND
J 970
L 2500
B 790
ND
J 890
L 49000
L 3300
B 420
L 6200
ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
WNC = WOULD NOT COMBUST

AR302094

AR302094

HU MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-BS008-1
10-008
LOC. 8
UG/KG
08/09/88

MS-BS009-1
10-009
LOC. 9
UG/KG
08/09/88

MS-BS010-1
10-010
LOC. 10
UG/KG
08/09/88

MS-BS010-1A
10-011
LOC. 10
DUPLICATE
UG/KG
08/09/88

MS-BS011-1
10-012
LOC. 11
UG/KG
08/09/88

MS-BS-12-1
10-013
LOC. 12
UG/KG
08/09/88

MS-BS013-1
10-014
LOC. 13
UG/KG
08/09/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

PP	CAS NO	COMPOUND	B 72000	Q 7900000	B 46000	R 67000	B 79000	B 9000	230000
66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	J 5000	J 220000	ND	ND	ND	ND	ND
69B	117-84-0	DI-N-OCTYL PHTHALATE	J 4000	ND	ND	ND	ND	ND	J 12000
68B	84-74-2	DI-N-BUTYL PHTHALATE	ND	ND	ND	ND	ND	ND	ND
67B	85-68-7	BUTYL BENZYL PHTHALATE	ND	ND	ND	ND	ND	ND	ND
71B	131-11-3	DIMETHYL PHTHALATE	ND	ND	ND	ND	ND	ND	ND
78B	120-12-7	ANTHRACENE	ND	ND	ND	ND	ND	ND	ND
72B	56-55-3	BENZ(a)ANTHRACENE	J 2000	ND	ND	ND	ND	ND	ND
76B	218-01-9	CHRYSENE	J 4000	ND	ND	ND	ND	ND	ND
39B	206-44-0	FLUORANTHENE	J 2000	ND	ND	ND	ND	ND	ND
80B	86-73-7	FLUORENE	ND	ND	ND	ND	ND	ND	ND
55B	91-20-3	NAPHTHALENE	J 3000	ND	ND	ND	ND	ND	J 14000
81B	85-01-6	2-METHYLNAPHTHALENE	J 3000	ND	ND	ND	ND	ND	24000
84B	129-00-0	PHENANTHRENE	J 14000	ND	ND	ND	ND	ND	J 14000
82B	95-50-1	1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
82B	120-82-1	1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
65B	85-00	BENZOIC ACID	J 13000	ND	ND	ND	ND	ND	810000
54B	78-59-1	ISOPHTHORENE	ND	ND	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
LJ = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
UNC = WOULD NOT COMBUST

AR302095

AR302095

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-BS008-1 10-008 LOC. 8 UG/KG 08/09/88	MS-BS009-1 10-009 LOC. 9 UG/KG 08/09/88	MS-BS010-1 10-010 LOC. 10 UG/KG 08/09/88	MS-BS010-1A 10-011 LOC. 10 DUPLICATE UG/KG 08/09/88	MS-BS011-1 10-012 LOC. 11 UG/KG 08/09/88	MS-BS012-1 10-013 LOC. 12 UG/KG 08/09/88	MS-BS013-1 10-014 LOC. 13 UG/KG 08/09/88
---	---	--	--	--	--	--

*** ACIDS ***

FP	CAS NO	COMPOUND
----	--------	----------

65A	108-95-2	PHENOL
	106-44-5	4-METHYLPHENOL

ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
						J 4000

NOTES :
 B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED
 WNC = WOULD NOT COMBUST

AR302096

AR302096

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-BS008-1	MS-BS009-1	MS-BS010-1	MS-BS010-1A	MS-BS011-1	MS-BS012-1	MS-BS013-1
10-008	10-009	10-010	10-011	10-012	10-013	10-014
LDC. 8	LDC. 9	LDC. 10	LDC. 10	LDC. 11	LDC. 12	LDC. 13
UG/KG	UG/KG	UG/KG	DUPLICATE	UG/KG	UG/KG	UG/KG
08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88

*** PESTICIDES ***

FP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES :
B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
UNC = WOULD NOT CORRUPT

AR302097

AR302097

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-BS008-1	MS-RS009-1	MS-BS010-1A	MS-BS011-1	MS-BS012-1	MS-BS013-1
008-11	009-11	010-11	012-11	013-11	014-11
LDC. 8	LDC. 9	LDC. 10	LDC. 11	LDC. 12	LDC. 13
		DUPLICATE			
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
08/09/88	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88

[illegible]

	B 998	34200	B 902	B 1120	B 1150	B 3740	MD
ALUMINUM	MD	25	MD	MD	MD	L 1390	L 21
ANTHONY	MD	248	MD	MD	MD	127	MD
BARIUM	MD	MD	MD	MD	MD	5280	MD
CALCIUM	MD	MD	MD	MD	MD	L 163	MD
CHROMIUM	L 64	MD	L 62	L 69	L 97	L 163	MD
COPPER	3442	823	2240	2470	27300	32900	307
IRON	444	32311	396	506	530	5900	7470
LEAD	66400	671	50400	56800	37700	29000	4100
MAGNESIUM	MD	5080	MD	MD	MD	1450	MD
MANGANESE	MD	111	MD	MD	MD	40	MD
MERCURY	0.34	0.53	MD	MD	MD	0.38	1.13
NICKEL	MD	56	MD	MD	MD	48	MD
SODIUM	8020	MD	MD	4340	12200	11600	14900
ZINC	220	145	86	85	218	520	MD

NOTES :
 R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C] = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED
 WNC = WOULD NOT COMBUST

AR302098

AR302098

NW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER: MS-BS008-1 MS-BS009-1 MS-BS010-1 MS-BS010-1A MS-BS011-1 MS-BS012-1 MS-BS013-1
 TRAFFIC REPORT NUMBER:
 LOCATION: LOC. 8 LOC. 9 LOC. 10 LOC. 10 LOC. 11 LOC. 12 LOC. 13
 DESCRIPTION: MG/KG MG/KG MG/KG DPLICATE MG/KG MG/KG MG/KG
 UNITS: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88
 DATE SAMPLED:

*** GEOCHEMICAL PARAMETERS ***

FP CAS NO COMPOUND

BRITISH TERNAL UNITS BTU/lb
 PERCENT MOISTURE
 PERCENT ASH # 775C
 SILTICON
 TITANIUM
 SIEVE SIZE 3/4
 SIEVE SIZE 3/8
 SIEVE SIZE NO. 4
 SIEVE SIZE NO. 10
 SIEVE SIZE NO. 40
 SIEVE SIZE NO. 200
 PARTICLE SIZE (MM) 0.021
 PARTICLE SIZE (MM) 0.006
 PARTICLE SIZE (MM) 0.001
 SPECIFIC GRAVITY

12900 1000 14300 12000 12800 6000 8400
 1.5 21 1.1 1.1 1.5 29 5.2
 9.6 59.5 9.5 11.2 17.7 17.8 1.3
 2360 195000 1600 1380 4230 8320 ND
 2090 3550 1950 1850 1760 4950 ND
 ND 100.0 ND ND ND ND ND
 ND 98.7 99.1 ND 100.0 100.0
 100.0 93.7 99.0 100.0 97.4 99.9
 99.8 76.8 98.3 99.3 93.1 99.1
 65.4 50.9 59.0 58.1 54.3 60.3
 5.7 44.8 4.4 4.5 4.8 34.2 47.5
 15.4 36.4 49.1 48.2 67.4 29.4 94.8
 5.9 23.8 37.6 43.2 57.0 19.4 74.6
 4.6 10.3 33.4 38.9 45.1 9.3 71.3
 1.35 1.93 1.03 1.06 1.06 1.37 1.05

AR302099

AR302099

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-BS014-1
 10-015
 LOC. 14
 UG/KG
 08/09/88

MS-BS015-1
 10-016
 LOC. 15
 UG/KG
 08/09/88

MS-BS016-1
 10-017
 LOC. 16
 UG/KG
 08/09/88

MS-BS017-1
 10-018
 LOC. 17
 UG/KG
 08/09/88

MS-BS018-1
 10-019
 LOC. 18
 UG/KG
 08/09/88

*** VOLATILES ***

FP CAS NO COMPOUND

67-64-1	ACETONE	B 5600	B 860000	B 33000	B 27000	B 69000000
78-93-3	2-BUTANONE	ND	ND	ND	ND	ND
591-78-6	2-HEXANONE	ND	ND	ND	ND	ND
4V 71-43-2	BENZENE	J 2100	ND	ND	ND	ND
86V 108-88-3	TOLUENE	B 870	ND	B 2000	B 1800	B 2000000
95-47-6	TOTAL XYLENES	J 1200	ND	ND	ND	ND
14V 79-00-5	1,1,2-TRICHLOROETHANE	ND	L 250000	J 66000	ND	ND
85V 127-18-4	TETRACHLOROETHENE	L 89000	L 9000000	L 240000	L 340000	L 640000000
87V 79-01-6	TRICHLOROETHENE	J 1500	ND	ND	ND	ND
44V 75-09-2	METHYLENE CHLORIDE	B 500	B 1200000	B 14000	B 12000	B 3900000
45V 74-87-3	CHLOROMETHANE	J 3300	ND	ND	ND	ND
75-15-0	CARBON DISULFIDE	ND	ND	ND	ND	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 ND = NOT DETECTED - NA = NOT ANALYZED
 WNC = WOULD NOT COMBUST

AR302100

AR302100

NW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER: MS-B5014-1 MS-B5015-1 MS-B5016-1 MS-B5017-1 MS-B5018-1
 TRAFFIC REPORT NUMBER: 10-015 10-016 10-017 10-018 10-019
 LOCATION: LOC. 14 LOC. 15 LOC. 16 LOC. 17 LOC. 18
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88
 DATE SAMPLED: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND	B 30000	B 78000	B 30000	B 78000	B 30000	B 78000
66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	ND	ND	ND	ND	ND
69B	117-84-0	DI-N-OCTYL PHTHALATE	ND	ND	ND	ND	ND	ND
68B	84-74-2	DI-N-UTYL PHTHALATE	ND	ND	ND	ND	ND	ND
67B	85-68-7	BUTYL BENZYL PHTHALATE	ND	ND	ND	ND	ND	ND
71B	131-11-3	DIMETHYL PHTHALATE	ND	ND	ND	ND	ND	ND
78B	120-12-7	ANTHRACENE	ND	ND	ND	ND	ND	ND
72B	56-55-3	BENZO(A)ANTHRACENE	ND	ND	ND	ND	ND	ND
76B	218-01-9	CHRYSENE	ND	ND	ND	ND	ND	ND
39B	206-44-0	FLUORANTHENE	ND	ND	ND	ND	ND	ND
80B	86-73-7	FLUORENE	ND	ND	ND	ND	ND	ND
55B	91-20-3	NAPHTHALENE	ND	ND	ND	ND	ND	ND
91-57-6		2-METHYLNAPHTHALENE	ND	ND	ND	ND	ND	ND
81B	85-01-8	PHENANTHRENE	ND	ND	ND	ND	ND	ND
84B	129-00-0	PYRENE	ND	ND	ND	ND	ND	ND
95-50-1		1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND
88	120-82-1	1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND
65-85-0		BENZOIC ACID	ND	ND	ND	ND	ND	ND
54B	78-59-1	ISOPHORONE	ND	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 LJ = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED
 UNC = WOULD NOT COMBUST

AR302101

AR302101

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:

TRAFFIC REPORT NUMBER:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-BS014-1 10-015 LOC. 14	MS-BS015-1 10-016 LOC. 15	MS-BS016-1 10-017 LOC. 16	MS-BS017-1 10-018 LOC. 17	MS-BS018-1 10-019 LOC. 18
UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88	UG/KG 08/09/88

*** ACIDS ***

PP	CAS NO	COMPOUND
----	--------	----------

65A	108-93-2	PHENOL
	106-44-5	4-METHYLPHENOL

ND	ND	ND	ND	ND
ND	ND	ND	ND	ND

NOTES :

B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
WNC = WOULD NOT COMBUST

AR302102

AR302102

MW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER:	MS-BS014-1	MS-BS015-1	MS-BS016-1	MS-BS017-1	MS-BS018-1
TRAFFIC REPORT NUMBER:	10-015	10-016	10-017	10-018	10-019
LOCATION:	LOC. 14	LOC. 15	LOC. 16	LOC. 17	LOC. 18
DESCRIPTION:					
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
DATE SAMPLED:	08/09/88	08/09/88	08/09/88	08/09/88	08/09/88

*** PESTICIDES ***

PP	CAS NO	COMPOUND
-----	-----	-----

NO PARAMETERS FOR THIS CATEGORY

AR302103

AR302103

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
WNC = WOULD NOT COMBUST

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-BS014-1	MS-BS015-1	MS-BS016-1	MS-BS017-1	MS-BS018-1
015-11	016-11	017-11	018-11	019-13
LOC. 14	LOC. 15	LOC. 16	LOC. 17	LOC. 18
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
08/09/88	08/09/88	08/09/88	08/09/88	08/09/88

*** INORGANICS ***

FP	CAS NO	COMPOUND	2210	3600	2570	14500	R 538
1		ALUMINUM					
2		ANTIMONY					
4		BARIUM	L 808	L 171	ND	ND	ND
7		CALCIUM	ND	298	ND	ND	ND
8		CHROMIUM	ND	ND	1200	1910	ND
10		COPPER	ND	L 200	L 80	L 159	ND
11		IRON	155	65500	5950	13500	ND
12		LEAD	11200	3230	1470	9370	ND
13		MAGNESIUM	624	24700	64900	33000	ND
14		MANGANESE	ND	1630	ND	2220	ND
15		MERCURY	48	ND	ND	116	ND
16		NICKEL	0.31	1.02	ND	ND	ND
20		SODIUM	ND	44	ND	ND	L 4.3
24		ZINC	4400	8150	ND	ND	ND
			ND	802	1400	1130	ND

NOTES :

B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED
UNC = WOULD NOT CONTRIBUTE

AR302104

AR302104

HW MANUFACTURING SITE - BARREL SAMPLES

SAMPLE NUMBER: MS-BS014-1 MS-BS015-1 MS-BS016-1 MS-BS017-1 MS-BS018-1
 TRAFFIC REPORT NUMBER: LOC. 14 LOC. 15 LOC. 16 LOC. 17 LOC. 18
 LOCATION: MG/KG MG/KG MG/KG MG/KG MG/KG
 DESCRIPTION: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88
 UNITS: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88
 DATE SAMPLED: 08/09/88 08/09/88 08/09/88 08/09/88 08/09/88

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND			
			BRITISH THERMAL UNITS BTU/lb		
			PERCENT MOISTURE		
			PERCENT ASH @ 775C		
			SILICON		
			TITANIUM		
			SIEVE SIZE 3/4		
			SIEVE SIZE 3/8"		
			SIEVE SIZE NO. 4		
			SIEVE SIZE NO. 10		
			SIEVE SIZE NO. 40		
			SIEVE SIZE NO. 200		
			PARTICLE SIZE (MM) 0.021		
			PARTICLE SIZE (MM) 0.006		
			PARTICLE SIZE (MM) 0.001		
			SPECIFIC GRAVITY		
				UNC	
				32	
				25.5	
				8110	
				2400	
				ND	
				100.0	
				93.5	
				87.4	
				77.7	
				47.7	
				35.6	
				62.5	
				55.0	
				40.2	
				1.05	
				13100	
				2.0	
				17.0	
				3860	
				3680	
				ND	
				100.0	
				99.9	
				99.6	
				87.9	
				69.2	
				78.2	
				30.4	
				17.3	
				1.58	
				11400	
				4.2	
				19.8	
				65000	
				2830	
				ND	
				100.0	
				99.8	
				99.0	
				59.4	
				8.9	
				11.6	
				8.9	
				7.5	
				1.06	
				8600	
				0.01	
				23.8	
				ND	
				ND	
				NA	
				NA	
				NA	
				NA	
				NA	
				NA	
				NA	
				NA	
				1.29	

AR302105

AR302105

APPENDIX E.3.0

TANK WASTE SAMPLES - LIQUID AND SEDIMENTS

AR302106

APPENDIX E.3.1
TANK LIQUID SAMPLES

AR302107

AR302107

HU MANUFACTURING SITE - TANK LIQUIDS

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-TL001-1-11 MS-TL002-1-11 MS-TL003-1-11 MS-TL003-1-11A
 001-11 002-11 003-11 004-11
 TANK 1 TANK 2 TANK 3 TANK 3 DUP
 NON-H2O MISC NON-H2O MISC NON-H2O MISC NON-H2O MISC
 UG/KG UG/KG UG/KG UG/KG
 08/10/88 08/10/88 08/10/88 08/10/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
67-64-1		ACETONE
78-93-3		2-BUTANONE
108-10-1		4-METHYL-2-PENTANONE
86V 108-88-3		TOLUENE
95-47-6		TOTAL XYLENES
85V 127-18-4		TETRACHLOROETHENE
87V 79-01-6		TRICHLOROETHENE

B 8000	B 6000	ND	B 9000
ND	B 14000	ND	ND
4000	ND	ND	ND
J 2000	J 2000	J 2000	J 3000
ND	J 2000	11000	10000
J 82000	J 76000	J 84000	J 5000
J 1000	ND	J 25000	J 25000

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 () = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 ND = NOT DETECTED

AR302108

AR302108

MW MANUFACTURING SITE - TANK LIQUIDS

SAMPLE NUMBER: MS-TL001-1-11 MS-TL002-1-11 MS-TL003-1-11 MS-TL003-1-11A
 TRAFFIC REPORT NUMBER: 001-11 002-11 003-11 004-11
 LOCATION: TANK 1 TANK 2 TANK 3 TANK 3 DUP
 DESCRIPTION: NON-H2O MISC NON-H2O MISC NON-H2O MISC NON-H2O MISC
 UNITS: UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

66B 117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE ND B 120000 B 1400000 B 1800000

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED

AR302109

AR302109

HW MANUFACTURING SITE - TANK LIQUIDS

SAMPLE NUMBER: MS-TL001-1-11 MS-TL002-1-11 MS-TL003-1-11 MS-TL003-1-11A
 TRAFFIC REPORT NUMBER: 001-11 002-11 003-11 004-11
 LOCATION: TANK 1 TANK 2 TANK 3 TANK 3 DUP
 DESCRIPTION: NON-H2O MISC NON-H2O MISC NON-H2O MISC NON-H2O MISC
 UNITS: UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88

*** ACIDS ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302110

AR302110

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED

HW MANUFACTURING SITE - TANK LIQUIDS

SAMPLE NUMBER: MS-TL001-1-11 MS-TL002-1-11 MS-TL003-1-11 MS-TL003-1-11A
 TRAFFIC REPORT NUMBER: 001-11 002-11 003-11 004-11
 LOCATION: TANK 1 TANK 2 TANK 3 TANK 3 DUF
 DESCRIPTION: NON-H2O MISC NON-H2O MISC NON-H2O MISC NON-H2O MISC
 UNITS: UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88

*** PESTICIDES ***

PP CAS NO COMPOUND

12672-29 ARDCLOR-1248 ND ND J 39000 J 47000

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED

AR302111

AR302111

MW MANUFACTURING SITE - TANK LIQUIDS

SAMPLE NUMBER: MS-TL001-1-11 MS-TL002-1-11 MS-TL003-1-11 MS-TL003-1-11A
 TRAFFIC REPORT NUMBER: 001-13 002-13 003-13 004-13
 LOCATION: TANK 1 TANK 2 TANK 3 TANK 3 DUP
 DESCRIPTION: NON-H2O MISC NON-H2O MISC NON-H2O MISC NON-H2O MISC
 UNITS: MG/KG MG/KG MG/KG MG/KG
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88

*** INORGANICS ***

PP	CAS NO	COMPOUND			
1		ALUMINUM	J 404	ND	ND
8		CHROMIUM	J 39	J 475	ND
16		NICKEL	ND	ND	ND
19		SILVER	SS	ND	L 41

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED

AR302112

AR302112

HW MANUFACTURING SITE - TANK LIQUIDS

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-TL001-1-11 MS-TL002-1-11 MS-TL003-1-11 MS-TL003-1-11A
TANK 1 TANK 2 TANK 3 TANK 3 DUP
NON-H2O MISC NON-H2O MISC NON-H2O MISC NON-H2O MISC
MG/L MG/L MG/L MG/L
08/10/88 08/10/88 08/10/88 08/10/88

*** GEOCHEMICAL PARAMETERS ***

PP CAS NO COMPOUND

COD	>303000	>303000	>303000	>303000
TSS	20400	1530	1450	NA
ROD	18900	3240	19200	3960
OIL & GREASE	1180000	1230000	1530000	1300000

AR302113

AR302113

APPENDIX E.3.2
TANK SEDIMENT SAMPLES

AR302114

AR302114

NW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

% MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-TS001-1-11 39001-005 TANK 1	MS-TS001-1-12 TANK 1	MS-TS001-1-13 TANK 1	MS-TS002-1-11 39001-006 TANK 2	MS-TS002-1-12 39001-006 TANK 2	MS-TS002-1-13 TANK 2	MS-TS003-1-11 39001-007 TANK 3
NON-H2O MISC UG/KG 08/10/88	H2O MISC UG/KG 08/10/88	SOLIDS UG/KG 08/10/88	NON-H2O MISC UG/KG 08/10/88	H2O MISC UG/KG 08/10/88	UG/KG 08/10/88	NON-H2O MISC UG/KG 08/10/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
67-64-1		ACETONE
78-93-3		2-BUTANONE
108-10-1		4-METHYL-2-PENTANONE
86V	108-88-3	TOLUENE
	93-47-6	TOTAL XYLENES
85V	127-18-4	TETRACHLOROETHENE
87V	79-01-6	TRICHLOROETHENE
44V	75-09-2	METHYLENE CHLORIDE

B 10000	NA	ND	B 10000	NA	ND
R 7000	NA	B 16000	B 7000	NA	ND
20000	NA	ND	ND	NA	ND
J 3000	NA	J 4000	J 1000	NA	ND
J 1000	NA	ND	ND	NA	ND
J 150000	NA	J 61000	ND	NA	J 8600000
J 8000	NA	ND	ND	NA	J 470000
ND	NA	ND	ND	NA	ND

NOTES :
B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED
NA = NOT ANALYZED

AR302115

AR302115

NW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
Z MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-TS001-1-11 MS-TS001-1-12 MS-TS001-1-13 MS-TS002-1-11 MS-TS002-1-12 MS-TS002-1-13 MS-TS003-1-11
39001-005 TANK 1 TANK 1 TANK 1 TANK 2 TANK 2 TANK 2 TANK 3
TANK 1
NON-H2O MISC H2O MISC SOLIDS NON-H2O MISC H2O MISC NON-H2O MISC
UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** BASE/NEUTRALS ***

PP CAS NO COMPOUND

66B 117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE
69B 117-84-0 DI-N-OCTYL PHTHALATE
68B 84-74-2 DI-N-BUTYL PHTHALATE
65-85-0 BENZOIC ACID

NA NA NA ND ND NA B 2300000
ND NA NA ND ND NA ND
ND NA NA ND ND NA ND
ND NA NA ND ND NA J 60000

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED
NA = NOT ANALYZED

AR302116

AR302116

NW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER: MS-TS001-1-11 MS-TS001-1-12 MS-TS001-1-13 MS-TS002-1-11 MS-TS002-1-12 MS-TS002-1-13 MS-TS003-1-11
 TRAFFIC REPORT NUMBER: 39001-005 39001-006 39001-006 39001-006 39001-006 39001-006 39001-007
 LOCATION: TANK 1 TANK 1 TANK 1 TANK 2 TANK 2 TANK 2 TANK 3
 % MOISTURE: NON-H2O MISC H2O MISC SOLIDS NON-H2O MISC H2O MISC NON-H2O MISC
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** ACIDS ***

PP	CAS NO	COMPOUND					
65A	108-95-2	PHENOL	ND	NA	NA	ND	ND
	106-44-5	4-METHYLPHENOL	ND	NA	NA	J 10000	ND
						J 7000	NA

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302117

AR302117

NW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

% MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-TS001-1-11 39001-005	MS-TS001-1-12 TANK 1	MS-TS001-1-13 TANK 1	MS-TS002-1-11 39001-006 TANK 2	MS-TS002-1-12 39001-006 TANK 2	MS-TS002-1-13 TANK 2	MS-TS003-1-11 39001-007 TANK 3
NON-H2O MISC UG/KG 08/10/88	H2O MISC UG/KG 08/10/88	SOLIDS UG/KG 08/10/88	NON-H2O MISC UG/KG 08/10/88	H2O MISC UG/KG 08/10/88	UG/KG 08/10/88	NON-H2O MISC UG/KG 08/10/88

*** PESTICIDES ***

PP CAS NO COMPOUND

12672-39 AROCLOR-1248

ND NA NA ND ND NA J 39000

AR302118

AR302118

NOTES :
B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED
NA = NOT ANALYZED

MW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER: MS-TS001-1-11 MS-TS001-1-12 MS-TS001-1-13 MS-TS002-1-11 MS-TS002-1-12 MS-TS002-1-13 MS-TS003-1-11
 TRAFFIC REPORT NUMBER: 005-13 005-12 005-13 006-13 006-12 006-13 007-13
 LOCATION: TANK 1 TANK 1 TANK 1 TANK 2 TANK 2 TANK 2 TANK 3
 % MOISTURE: 88.5 11.5 88.5 35.3 64.7 28.9
 DESCRIPTION: NON-H2O MISC H2O MISC NON-H2O MISC H2O-MISC SOLIDS NON-H2O MISC
 UNITS: MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** INORGANICS ***

FP	CAS NO	COMPOUND
1		ALUMINUM
2		ANTIMONY
7		CALCIUM
8		CHROMIUM
10		COPPER
11		IRON
12		LEAD
13		MAGNESIUM
14		MANGANESE
16		NICKEL
20		SODIUM
24		ZINC

ND	NA	ND	ND	NA	NA	J 1330
ND	NA	ND	ND	NA	NA	L 71
ND	NA	ND	ND	NA	NA	J 1590
ND	NA	ND	ND	NA	NA	J 65
L 90	NA	ND	ND	NA	NA	L 20350
J 294	NA	2300	J 268	NA	NA	J 3620
J 124	NA	ND	ND	NA	NA	J 4710
ND	NA	ND	ND	NA	NA	L 851
ND	NA	J 60	ND	NA	NA	ND
ND	NA	ND	ND	NA	NA	ND
ND	NA	ND	K 4430	NA	NA	ND
ND	NA	ND	ND	NA	NA	J 288

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302119

AR302119

NW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER: MS-TS001-1-11 MS-TS001-1-12 MS-TS001-1-13 MS-TS002-1-11 MS-TS002-1-12 MS-TS002-1-13 MS-TS003-1-11
 TRAFFIC REPORT NUMBER: 005-13 005-12 006-13 006-12 006-13 007-13
 LOCATION: TANK 1 TANK 1 TANK 1 TANK 2 TANK 2 TANK 3
 % MOISTURE: 88.5 11.5 35.3 64.7 28.9
 DESCRIPTION: NON-H2O MISC H2O MISC NON-H2O MISC SOLIDS SOLIDS NON-H2O MISC
 UNITS: MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** GEODCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND	BRITISH THERMAL UNITS BTU/LB	PERCENT MOISTURE	PERCENT ASH @ 775C	SILICON	TITANIUM
			NA	NA	NA	NA	NA
			19200	2.0	1.6	NA	NA
			NA	NA	NA	ND	ND
			NA	NA	NA	ND	ND
			15300	12	4.5	NA	NA
			NA	NA	NA	NA	L 4280
			NA	NA	NA	NA	J 423

AR302120

AR302120

HW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 Z MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-TS003-1-11A MS-TS003-1-12 MS-TS003-1-12A MS-TS003-1-13 MS-TS003-1-13A
 39001-008 39001-007 39001-008 39001-007 39001-008
 TANK 3-DUP TANK 3 TANK 3-DUP TANK 3 TANK 3-DUP
 NDM-H2O MISC H2O MISC H2O MISC SOLIDS SOLIDS
 UG/KG UG/KG UG/KG UG/KG UG/KG
 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** VOLATILES ***

PP CAS NO COMFOIND

67-64-1 ACETONE
 78-93-3 2-BUTANONE
 108-10-1 4-METHYL-2-PENTANONE
 86V 108-88-3 TOLUENE
 95-47-6 TOTAL XYLENES
 85V 127-18-4 TETRACHLOROETHENE
 87V 79-01-6 TRICHLOROETHENE
 44V 75-09-2 METHYLENE CHLORIDE

ND ND B 8000 ND ND
 ND ND B 8000 ND ND
 ND ND J 4000 ND ND
 J 2000 J 2000 ND ND
 ND ND J 15000 J 1100000
 J 1200000 J 82000 J 980000
 J 87000 J 1000 J 180000
 ND J 1000 ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302121

AR302121

HW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-TS003-1-11A	MS-TS003-1-12	MS-TS003-1-12A	MS-TS003-1-13	MS-TS003-1-13A
39001-008	39001-007	39001-008	39001-007	39001-008
TANK 3-IUP	TANK 3	TANK 3-IUP	TANK 3	TANK 3-IUP
NON-H2O MISC	H2O MISC	H2O MISC	SOLIDS	SOLIDS
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
08/10/88	08/10/88	08/10/88	08/10/88	08/10/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND
1	100-51-8	1,1-Dichloroethane
2	75-28-7	Acetone
3	64-17-5	Diethyl ether
4	71-43-2	Chloroform
5	108-90-7	Diethylamine
6	107-13-6	Diethylamine
7	107-13-6	Diethylamine
8	107-13-6	Diethylamine
9	107-13-6	Diethylamine
10	107-13-6	Diethylamine
11	107-13-6	Diethylamine
12	107-13-6	Diethylamine
13	107-13-6	Diethylamine
14	107-13-6	Diethylamine
15	107-13-6	Diethylamine
16	107-13-6	Diethylamine
17	107-13-6	Diethylamine
18	107-13-6	Diethylamine
19	107-13-6	Diethylamine
20	107-13-6	Diethylamine
21	107-13-6	Diethylamine
22	107-13-6	Diethylamine
23	107-13-6	Diethylamine
24	107-13-6	Diethylamine
25	107-13-6	Diethylamine
26	107-13-6	Diethylamine
27	107-13-6	Diethylamine
28	107-13-6	Diethylamine
29	107-13-6	Diethylamine
30	107-13-6	Diethylamine
31	107-13-6	Diethylamine
32	107-13-6	Diethylamine
33	107-13-6	Diethylamine
34	107-13-6	Diethylamine
35	107-13-6	Diethylamine
36	107-13-6	Diethylamine
37	107-13-6	Diethylamine
38	107-13-6	Diethylamine
39	107-13-6	Diethylamine
40	107-13-6	Diethylamine
41	107-13-6	Diethylamine
42	107-13-6	Diethylamine
43	107-13-6	Diethylamine
44	107-13-6	Diethylamine
45	107-13-6	Diethylamine
46	107-13-6	Diethylamine
47	107-13-6	Diethylamine
48	107-13-6	Diethylamine
49	107-13-6	Diethylamine
50	107-13-6	Diethylamine
51	107-13-6	Diethylamine
52	107-13-6	Diethylamine
53	107-13-6	Diethylamine
54	107-13-6	Diethylamine
55	107-13-6	Diethylamine
56	107-13-6	Diethylamine
57	107-13-6	Diethylamine
58	107-13-6	Diethylamine
59	107-13-6	Diethylamine
60	107-13-6	Diethylamine
61	107-13-6	Diethylamine
62	107-13-6	Diethylamine
63	107-13-6	Diethylamine
64	107-13-6	Diethylamine
65	107-13-6	Diethylamine
66	107-13-6	Diethylamine
67	107-13-6	Diethylamine
68	107-13-6	Diethylamine
69	107-13-6	Diethylamine
70	107-13-6	Diethylamine
71	107-13-6	Diethylamine
72	107-13-6	Diethylamine
73	107-13-6	Diethylamine
74	107-13-6	Diethylamine
75	107-13-6	Diethylamine
76	107-13-6	Diethylamine
77	107-13-6	Diethylamine
78	107-13-6	Diethylamine
79	107-13-6	Diethylamine
80	107-13-6	Diethylamine
81	107-13-6	Diethylamine
82	107-13-6	Diethylamine
83	107-13-6	Diethylamine
84	107-13-6	Diethylamine
85	107-13-6	Diethylamine
86	107-13-6	Diethylamine
87	107-13-6	Diethylamine
88	107-13-6	Diethylamine
89	107-13-6	Diethylamine
90	107-13-6	Diethylamine
91	107-13-6	Diethylamine
92	107-13-6	Diethylamine
93	107-13-6	Diethylamine
94	107-13-6	Diethylamine
95	107-13-6	Diethylamine
96	107-13-6	Diethylamine
97	107-13-6	Diethylamine
98	107-13-6	Diethylamine
99	107-13-6	Diethylamine
100	107-13-6	Diethylamine

66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
67B	117-84-0	DI-N-OCTYL PHTHALATE
68B	84-74-2	DI-N-BUTYL PHTHALATE
	65-85-0	BENZOIC ACID

R 2000000	R 4000	R 6000	6100000	4600000
ND	ND	ND	R 540000	R 700000
ND	ND	ND	J 140000	J 110000
ND	ND	ND	ND	ND

NOTES :

R	=	DATA REJECTED - ANALYTE FOUND IN THE BLANK
J	=	APPROXIMATE VALUE
K	=	APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L	=	APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND	=	NOT DETECTED
NA	=	NOT ANALYZED

AR 6122

AR302122

HW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-TS003-1-11A MS-TS003-1-12 MS-TS003-1-12A MS-TS003-1-13 MS-TS003-1-13A
 39001-008 39001-007 39001-008 39001-007 39001-008
 TANK 3-DUP TANK 3 TANK 3-DUP TANK 3 TANK 3-DUP
 NON-H2O MISC H2O MISC H2O MISC SOLIDS SOLIDS
 UG/KG UG/KG UG/KG UG/KG UG/KG
 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** ACIDS ***

PF CAS NO COMPOUND

65A 108-95-2 PHENOL
 106-44-5 4-METHYLPHENOL

ND ND ND ND ND
 ND ND ND ND ND

AR302123

AR302123

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED
 NA = NOT ANALYZED

HW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER: MS-TS003-1-11A MS-TS003-1-12 MS-TS003-1-12A MS-TS003-1-13 MS-TS003-1-13A
 TRAFFIC REPORT NUMBER: 39001-008 39001-007 39001-008 39001-007 39001-008
 LOCATION: TANK 3 TANK 3 TANK 3 TANK 3 TANK 3
 Z MOISTURE: NON-H2O MISC H2O MISC H2O MISC SOLIDS
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88
 DATE SAMPLED: 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** PESTICIDES ***

PP CAS NO COMPOUND

12672-29 ARDCLOR-1248 J 42000 ND J 32000 J 39000

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302124

AR302124

HW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-TS003-1-11A MS-TS003-1-12 MS-TS003-1-12A MS-TS003-1-13 MS-TS003-1-13A
 008-13 007-12 008-12 007-11 008-13
 TANK 3 TANK 3 TANK 3 TANK 3 TANK 3
 14.0 22.6 26.2 51.5 40.2
 NON-H2O MISC H2O MISC SOLIDS
 MG/KG MG/KG MG/KG
 08/10/88 08/10/88 08/10/88 08/10/88 08/10/88

*** INORGANICS ***

PP CAS NO COMPOUND

1 ALUMINUM
 2 ANTIMONY
 3 CALCIUM
 8 CHROMIUM
 10 COPPER
 11 IRON
 12 LEAD
 13 MAGNESIUM
 14 MANGANESE
 16 NICKEL
 20 SODIUM
 24 ZINC

871 566 488 K 1840 K 1940
 L 41 ND ND ND J 154
 J 1610 ND ND K 2860 J 3370
 J 54 ND ND 121 96
 L 10200 L 205 L 144 J 34100 J 66300
 J 3200 ND ND J 3100 J 7990
 J 2030 ND ND 12800 11500
 L 808 ND ND ND J 988
 ND ND ND ND J 58
 ND ND ND ND ND
 J 194 ND ND ND ND 384
 ND ND ND ND 313

NOTES :
 R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302125

AR302125

NW MANUFACTURING SITE - TANK SEDIMENT SAMPLES

SAMPLE NUMBER:	TRAFFIC REPORT NUMBER:	LOCATION:	% MOISTURE:	DESCRIPTION:	UNITS:	DATE SAMPLED:
MS-TS003-1-11A	MS-TS003-1-12	MS-TS003-1-12A	MS-TS003-1-13	MS-TS003-1-13A		
00B-13	00B-12	00B-11	00B-13	00B-13		
TANK 3	TANK 3	TANK 3	TANK 3	TANK 3		
14.0	22.6	26.2	48.5	40.2		
NON-H2O MISC	H2O MISC	H2O MISC	SOLIDS	SOLIDS		
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG		
08/10/88	08/10/88	08/10/88	08/10/88	08/10/88		

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	CONF-FOUND
----	--------	------------

BRITISH THERMAL UNITS BTU/1b
PERCENT MOISTURE
PERCENT ASH @ 775C
SILICON
TITANIUM

Model	NA	NA	NA	10000	9000
1	NA	NA	NA	42	52
2	NA	NA	NA	3.1	3.6
3	L 2080	ND	ND	K 6470	K 6540
4	ND	ND	ND	L 974	L 1560

AR302126

AR602125

APPENDIX E.4.0
LAGOON SAMPLES - LIQUID AND SEDIMENTS

AR302127

AR302127

APPENDIX E.4.1
LAGOON LIQUID SAMPLES

AR302128

AR302128

NW MANUFACTURING SITE - LAGOON WATER SAMPLES

SAMPLE NUMBER: MS-LL001-1 MS-LL001-1A MS-LL002-1 MS-LL003-1 MS-LL004-1 MS-LL005-1
 TRAFFIC REPORT NUMBER: CR266 CR268 CR269 CR270 CR271 CR272
 LOCATION: LOC. 1 LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5
 DESCRIPTION: DUPLICATE
 UNITS: UG/L UG/L UG/L UG/L UG/L UG/L
 DATE SAMPLED: 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88

*** VOLATILES ***

PP	CAS NO	COMPOUND	R 26	R 24	R 21	R 17	R 16	R 41
57-64-1		ACETONE	J 4	ND	ND	ND	ND	ND
78-93-3		2-BUTANONE	5	J 4	J 2	J 2	J 1	ND
86V 108-88-3		TOLUENE	J 6	7	7	12	9	6
14V 79-00-5		1,1,2-TRICHLOROETHANE	21	22	22	33	37	18
85V 127-18-4		TETRACHLOROETHENE	7	8	9	12	10	5
87V 79-01-6		TRICHLOROETHENE	43	43	33	96	42	23
30V 156-60-5		TRANS-1,2-DICHLOROETHENE	J 6	J 6	J 7	11	J 6	J 3
88V 75-01-4		VINYL CHLORIDE	ND	ND	ND	8 4	ND	ND
44V 75-09-2		METHYLENE CHLORIDE						

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 A = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302129

AR302129

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-LL001-1	MS-LL001-1A	MS-LL002-1	MS-LL003-1	MS-LL004-1	MS-LL005-1
CR268	CR268	CR269	CR270	CR271	CR272
LOC. 1	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5
UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
08/02/88	08/02/88	08/02/88	08/02/88	08/02/88	08/02/88
	DUPLICATE				

PP	CAS NO	COMPOUND
1	100-51-8	1,1-Dichloroethane
2	75-28-7	Acetone
3	64-17-5	Diethyl ether
4	71-43-2	Chloroform
5	108-90-7	Diethylamine
6	107-13-6	Diethylamine
7	107-13-6	Diethylamine
8	107-13-6	Diethylamine
9	107-13-6	Diethylamine
10	107-13-6	Diethylamine
11	107-13-6	Diethylamine
12	107-13-6	Diethylamine
13	107-13-6	Diethylamine
14	107-13-6	Diethylamine
15	107-13-6	Diethylamine
16	107-13-6	Diethylamine
17	107-13-6	Diethylamine
18	107-13-6	Diethylamine
19	107-13-6	Diethylamine
20	107-13-6	Diethylamine
21	107-13-6	Diethylamine
22	107-13-6	Diethylamine
23	107-13-6	Diethylamine
24	107-13-6	Diethylamine
25	107-13-6	Diethylamine
26	107-13-6	Diethylamine
27	107-13-6	Diethylamine
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92	107-13-6	Diethylamine
93	107-13-6	Diethylamine
94	107-13-6	Diethylamine
95	107-13-6	Diethylamine
96	107-13-6	Diethylamine
97	107-13-6	Diethylamine
98	107-13-6	Diethylamine
99	107-13-6	Diethylamine
100	107-13-6	Diethylamine

66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
69B	117-84-0	DI-N-OCTYL PHTHALATE
71B	131-11-3	DIMETHYL PHTHALATE

Case	Age	Sex	Occupation	Onset	Duration	Course	Outcome
150	39	J		29	52	71	53
151	40	J		29	52	71	53
152	41	J		29	52	71	53
153	42	J		29	52	71	53
154	43	J		29	52	71	53
155	44	J		29	52	71	53
156	45	J		29	52	71	53
157	46	J		29	52	71	53
158	47	J		29	52	71	53
159	48	J		29	52	71	53
160	49	J		29	52	71	53
161	50	J		29	52	71	53
162	51	J		29	52	71	53
163	52	J		29	52	71	53
164	53	J		29	52	71	53
165	54	J		29	52	71	53
166	55	J		29	52	71	53
167	56	J		29	52	71	53
168	57	J		29	52	71	53
169	58	J		29	52	71	53
170	59	J		29	52	71	53
171	60	J		29	52	71	53
172	61	J		29	52	71	53
173	62	J		29	52	71	53
174	63	J		29	52	71	53
175	64	J		29	52	71	53
176	65	J		29	52	71	53
177	66	J		29	52	71	53
178	67	J		29	52	71	53
179	68	J		29	52	71	53
180	69	J		29	52	71	53
181	70	J		29	52	71	53
182	71	J		29	52	71	53
183	72	J		29	52	71	53
184	73	J		29	52	71	53
185	74	J		29	52	71	53
186	75	J		29	52	71	53
187	76	J		29	52	71	53
188	77	J		29	52	71	53
189	78	J		29	52	71	53
190	79	J		29	52	71	53
191	80	J		29	52	71	53
192	81	J		29	52	71	53
193	82	J		29	52	71	53
194	83	J		29	52	71	53
195	84	J		29	52	71	53
196	85	J		29	52	71	53
197	86	J		29	52	71	53
198	87	J		29	52	71	53
199	88	J		29	52	71	53
200	89	J		29	52	71	53
201	90	J		29	52	71	53
202	91	J		29	52	71	53
203	92	J		29	52	71	53
204	93	J		29	52	71	53
205	94	J		29	52	71	53
206	95	J		29	52	71	53
207	96	J		29	52	71	53
208	97	J		29	52	71	53
209	98	J		29	52	71	53

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
ND = NOT DETECTED
NM = NOT ANALYZED

AR302130

NW MANUFACTURING SITE - LAGOON WATER SAMPLES

SAMPLE NUMBER: MS-LL001-1 MS-LL001-1A MS-LL002-1 MS-LL003-1 MS-LL004-1 MS-LL005-1
 TRAFFIC REPORT NUMBER: CR266 CR268 CR269 CR270 CR271 CR272
 LOCATION: LOC. 1 LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5
 DESCRIPTION: DUPLICATE
 UNITS: UG/L UG/L UG/L UG/L UG/L UG/L
 DATE SAMPLED: 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88

*** ACIDS ***

EP	CAS NO	COMPOUND			
65A	108-95-2	PHENOL	160	ND	ND
	95-48-7	2-METHYLPHENOL	J 15	ND	ND
	106-44-5	4-METHYLPHENOL	J 380	ND	ND
34A	105-67-9	2,4-DIMETHYLPHENOL	260	ND	41
			54	26	

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C J = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302131

AR302131

NW MANUFACTURING SITE - LAGOON WATER SAMPLES

SAMPLE NUMBER: MS-LL001-1 MS-LL001-1A MS-LL002-1 MS-LL003-1 MS-LL004-1 MS-LL005-1
 TRAFFIC REPORT NUMBER: CR266 CR268 CR269 CR270 CR271 CR272
 LOCATION: LOC. 1 LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5
 DESCRIPTION: DUPLICATE
 UNITS: UG/L UG/L UG/L UG/L UG/L UG/L
 DATE SAMPLED: 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88

*** PESTICIDES ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302132

AR302132

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 ND = NOT DETECTED
 NA = NOT ANALYZED

MS MANUFACTURING SITE - LAGOON WATER SAMPLES

SAMPLE NUMBER: MS-LL001-1 MS-LL001-1A MS-LL002-1 MS-LL003-1 MS-LL004-1 MS-LL005-1
 TRAFFIC REPORT NUMBER: MCT266 MCT268 MCT269 MCT270 MCT271 MCT272
 LOCATION: LOC. 1 LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5
 DESCRIPTION: DUPLICATE
 UNITS: UG/L UG/L UG/L UG/L UG/L UG/L
 DATE SAMPLED: 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88

*** INORGANICS ***

FP	CAS NO	COMPOUND	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
		ALUMINUM	J 1190	J 1910	R 522	J 1000	R 399	J 905																		
		ANTIMONY	[47.3]	[55.6]	NO	[54.4]	NO	NO																		
		ARSENIC	K [2.2]	K [1.8]	K [1.7]	K [1.6]	NO	NO																		
		BARIUM	[150]	[163]	[126]	[136]	[128]	[128]																		
		BERYLLIUM	NO	NO	NO	B [1.8]	B [1.8]	B [1.8]																		
		CALCIUM	48800	50200	51700	53300	52700	52100																		
		CHROMIUM	NO	B [9.7]	NO	NO	NO	NO																		
		COPPER	J 5680	J 7110	J 3970	J 5700	J 3990	J 3910																		
		IRON	8520	10100	6120	8030	9000	6500																		
		LEAD	876	1010	619	978	681	663																		
		MAGNESIUM	[2550]	[2750]	[2470]	[2750]	[2470]	[2550]																		
		MANGANESE	627	650	646	669	687	660																		
		NICKEL	[18.3]	[19]	[14.6]	[14.6]	50.5	[10.2]																		
		POTASSIUM	[1640]	[1680]	[1680]	[1740]	[1720]	[1820]																		
		SODIUM	R [1220]	R [1200]	R [1220]	B [1210]	R [1320]	R [1280]																		
		VANADIUM	[4.7]	NO	NO	NO	NO	NO																		
		ZINC	J 544	J 663	J 402	J 488	J 402	J 408																		

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 NO = NOT DETECTED
 NA = NOT ANALYZED

AR302133

AR302133

MW MANUFACTURING SITE - LAGOON WATER SAMPLES

SAMPLE NUMBER: MS-LL001-1 MS-LL001-1A MS-LL002-1 MS-LL003-1 MS-LL004-1 MS-LL005-1
 TRAFFIC REPORT NUMBER:
 LOCATION: LOC. 1 LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5
 DESCRIPTION: DUPLICATE
 UNITS: MG/L MG/L MG/L MG/L MG/L
 DATE SAMPLED: 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88 08/02/88

*** GEOCHEMICAL PARAMETERS ***

IP	CAS NO	COMPOUND							
		COD	130	176	107	107	85	96	
		PH	6.57	6.52	6.67	6.71	6.59	6.54	
		TDS	R 288	R 316	R 314	R 314	R 326	R 316	
		TOTAL ORGANIC CARBON	R 39.4	R 38.5	R 49.9	R 46.5	R 46.9	R 41.0	
		TSS	46	93	27	28	40	22	
		BOD	96.0	90.0	108	96.0	96.0	84.0	

AR302134

AR302134

APPENDIX E.4.2
LAGOON SEDIMENT SAMPLES

AR302135

AR302135

HW MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER:

TRAFFIC REPORT NUMBER:

% MOISTURE:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-LS001-1	MS-LS001-1A	MS-LS002-1	MS-LS003-1	MS-LS004-1	MS-LS005-1
001-13	002-13	003-13	004-13	005-13	006-13
0.8	0.4	0	0.1	0	1.1
LOC. 1	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5
DUPLICATE					
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
08/03/88	08/03/88	08/03/88	08/03/88	08/03/88	08/03/88

*** VOLATILES ***

PP CAS NO COMPOUND

67-64-1	ACETONE	B 5200	B 4700	B 6000	B 17000	B 4700	B 5200
78-93-3	2-BUTANONE	B 5300	B 5300	B 6000	B 16000	B 5300	B 6200
86V 108-88-3	TOLUENE	J 500	ND	ND	J 900	J 300	ND
14V 79-00-5	1,1,2-TRICHLOROETHANE	ND	ND	ND	16000	ND	ND
65V 127-18-4	TETRACHLOROETHENE	B 400	ND	ND	210000	B 400	ND
87V 79-01-6	TRICHLOROETHENE	ND	ND	ND	51000	ND	ND
30V 156-60-5	TRANS-1,2-DICHLOROETHENE	J 300	ND	ND	20000	ND	ND
29V 75-35-4	1,1-DICHLOROETHENE	ND	ND	ND	J 700	ND	ND
88V 75-01-4	VINYL CHLORIDE	ND	ND	ND	J 1500	ND	ND
44V 75-09-2	METHYLENE CHLORIDE	B 1900	B 1400	B 1800	30000	B 2400	B 2000

NOTES :

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J = APPROXIMATE VALUE

[] = APPROXIMATE VALUE

K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED

AR302136

AR302136

MW MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER: MS-LS001-1 MS-LS001-1A MS-LS002-1 MS-LS003-1 MS-LS004-1 MS-LS005-1
 TRAFFIC REPORT NUMBER: 001-13 002-13 003-13 004-13 005-13 006-13
 % MOISTURE: 0.8 0.4 0 LOC. 2 0.1 LOC. 4 1.1
 LOCATION: LOC. 1 LOC. 1 LOC. 2 LOC. 3 LOC. 4 LOC. 5
 DESCRIPTION: DUPLICATE
 UNITS: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 08/03/88 08/03/88 08/03/88 08/03/88 08/03/88 08/03/88

*** ACIDS ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302138

AR302138

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
% MOISTURE:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-LS001-1	MS-LS001-1A	MS-LS002-1	MS-LS003-1	MS-LS004-1	MS-LS005-1
54-001	54-002	54-003	54-004	54-005	54-006
0.8	0.4	0	0.1	0	1.1
LOC. 1	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5
Duplicate	Duplicate				
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
08/03/88	08/03/88	08/03/88	08/03/88	08/03/88	08/03/88

PP	CAS NO	COMPOUND
1	78-06-2	BENZENE
2	71-43-2	METHANOL
3	64-17-5	ACETONE
4	69-72-7	ETHYL ALCOHOL
5	74-82-8	SODIUM CHLORIDE
6	74-60-0	DIETHYLENE GLYCOL
7	74-40-3	AMMONIA
8	74-29-8	HYDROCHLORIC ACID
9	74-85-1	SULFURIC ACID
10	74-86-2	NITRIC ACID
11	74-83-9	POTASSIUM HYDROXIDE
12	74-80-8	SODIUM HYDROXIDE
13	74-82-8	SODIUM CHLORIDE
14	74-82-8	SODIUM CHLORIDE
15	74-82-8	SODIUM CHLORIDE
16	74-82-8	SODIUM CHLORIDE
17	74-82-8	SODIUM CHLORIDE
18	74-82-8	SODIUM CHLORIDE
19	74-82-8	SODIUM CHLORIDE
20	74-82-8	SODIUM CHLORIDE
21	74-82-8	SODIUM CHLORIDE
22	74-82-8	SODIUM CHLORIDE
23	74-82-8	SODIUM CHLORIDE
24	74-82-8	SODIUM CHLORIDE
25	74-82-8	SODIUM CHLORIDE
26	74-82-8	SODIUM CHLORIDE
27	74-82-8	SODIUM CHLORIDE
28	74-82-8	SODIUM CHLORIDE
29	74-82-8	SODIUM CHLORIDE
30	74-82-8	SODIUM CHLORIDE
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37	74-82-8	SODIUM CHLORIDE
38	74-82-8	SODIUM CHLORIDE
39	74-82-8	SODIUM CHLORIDE
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44	74-82-8	SODIUM CHLORIDE
45	74-82-8	SODIUM CHLORIDE
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50	74-82-8	SODIUM CHLORIDE
51	74-82-8	SODIUM CHLORIDE
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61	74-82-8	SODIUM CHLORIDE
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63	74-82-8	SODIUM CHLORIDE
64	74-82-8	SODIUM CHLORIDE
65	74-82-8	SODIUM CHLORIDE
66	74-82-8	SODIUM CHLORIDE
67	74-82-8	SODIUM CHLORIDE
68	74-82-8	SODIUM CHLORIDE
69	74-82-8	SODIUM CHLORIDE
70	74-82-8	SODIUM CHLORIDE
71	74-82-8	SODIUM CHLORIDE
72	74-82-8	SODIUM CHLORIDE
73	74-82-8	SODIUM CHLORIDE
74	74-82-8	SODIUM CHLORIDE
75	74-82-8	SODIUM CHLORIDE
76	74-82-8	SODIUM CHLORIDE
77	74-82-8	SODIUM CHLORIDE
78	74-82-8	SODIUM CHLORIDE
79	74-82-8	SODIUM CHLORIDE
80	74-82-8	SODIUM CHLORIDE
81	74-82-8	SODIUM CHLORIDE
82	74-82-8	SODIUM CHLORIDE
83	74-82-8	SODIUM CHLORIDE
84	74-82-8	SODIUM CHLORIDE
85	74-82-8	SODIUM CHLORIDE
86	74-82-8	SODIUM CHLORIDE
87	74-82-8	SODIUM CHLORIDE
88	74-82-8	SODIUM CHLORIDE
89	74-82-8	SODIUM CHLORIDE
90	74-82-8	SODIUM CHLORIDE
91	74-82-8	SODIUM CHLORIDE
92	74-82-8	SODIUM CHLORIDE
93	74-82-8	SODIUM CHLORIDE
94	74-82-8	SODIUM CHLORIDE
95	74-82-8	SODIUM CHLORIDE
96	74-82-8	SODIUM CHLORIDE
97	74-82-8	SODIUM CHLORIDE
98	74-82-8	SODIUM CHLORIDE
99	74-82-8	SODIUM CHLORIDE
100	74-82-8	SODIUM CHLORIDE

1	ALUMINUM	26300	25500	48000	1800	28800	27900
2	ANTIMONY	ND	ND	ND	L 215	ND	ND
3	BARIUM	194	191	316	ND	231	242
4	CALCIUM	K 1050	ND	K 860	K 2800	K 968	K 1000
5	CHROMIUM	32	ND	58	538	32	44
6	COPPER	L 2350	L 2540	L 2080	L 9690	L 279	L 368
7	IRON	14000	10800	33800	1210	15400	12900
8	LEAD	K 574	K 558	K 500	K 39800	B 80	ND
9	MAGNESIUM	K 2540	K 1980	K 4270	ND	K 1370	K 2190
10	MANGANESE	101	56	76	ND	73	50
11	NICKEL	L 51	ND	L 54	ND	ND	L 42
12	SODIUM	J 6840	J 6360	J 5640	J 4280	J 4940	J 5340
13	ZINC	J 134	J 132	J 116	J 146	J 73	J 64

NOTES :

R	=	DATA REJECTED	-	ANALYTE FOUND IN THE BLANK
J	=	APPROXIMATE VALUE		
C	=	APPROXIMATE VALUE		
K	=	APPROXIMATE VALUE	-	REPORTED VALUE MAY BE BIASED HIGH
L	=	APPROXIMATE VALUE	-	REPORTED VALUE MAY BE BIASED LOW
ND	=	NOT DETECTED	-	MA = NOT ANALYZED

AR362140

AR302140

APPENDIX E.4.3
LAGOON SEDIMENT SAMPLES
TCLP ANALYSIS

AR302142

AR302142

HV MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER:

TRAFFIC REPORT NUMBER:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-LS001-1-TCLPMS-LS002-1-TCLPMS-LS004-1-TCLP

LOC. 1	LOC. 2	LOC. 4
TCLP	TCLP	TCLP
UG/L	UG/L	UG/L
08/03/88	08/03/88	08/03/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
67-64-1		ACETONE
95V	127-18-4	TETRACHLOROETHENE
30V	156-60-5	TRANS-1,2-DICHLOROETHENE
88V	75-01-4	VINYL CHLORIDE
44V	75-09-2	METHYLENE CHLORIDE

B 210	B 150	B 89
J 6	ND	ND
J 17	J 9	ND
J 5	ND	ND
B 19	B 21	B 20

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED

AR302143

AR302143

MV MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER: MS-L5001-1-TCLPHS-L5002-1-TCLPHS-L5004-1-TCLP
 TRAFFIC REPORT NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED: 08/03/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND
69B	117-84-0	DI-N-OCTYL PHTHALATE
68B	84-74-2	DI-N-BUTYL PHTHALATE
62B	86-30-6	N-NITROSODIPHENYLAMINE

LOC. 1	LOC. 2	LOC. 4
TCLP	TCLP	TCLP
UG/L	UG/L	UG/L
08/03/88	08/03/88	08/03/88

AR302144

AR302144

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C = APPROXIMATE VALUE
 N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANAL

MW MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER: NS-LS001-1-TCLPMS-LS002-1-TCLPMS-LS004-1-TCLP
 TRAFFIC REPORT NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED: 08/03/88

LOC. 1	LOC. 2	LOC. 4
TCLP	TCLP	TCLP
UG/L	UG/L	UG/L
08/03/88	08/03/88	08/03/88

*** ACIDS ***

PP	CAS NO	COMPOUND
65A	108-95-2	PHENOL
34A	106-44-5	4-METHYLPHENOL
	105-67-9	2,4-DIMETHYLPHENOL

ND J 3 ND
 ND J 5 ND
 ND J 3 ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 L = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED

AR302145

AR302145

MW MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER: MS-LS001-1-TCLPMS-LS002-1-TCLPMS-LS004-1-TCLP
 TRAFFIC REPORT NUMBER:
 LOCATION: LOC. 1 LOC. 2 LOC. 4
 DESCRIPTION: TCLP TCLP TCLP
 UNITS: UG/L UG/L UG/L
 DATE SAMPLED: 08/03/88 08/03/88 08/03/88

*** PESTICIDES ***

PP	CAS NO	COMPOUND
NO PARAMETERS FOR THIS CATEGORY		

NO PARAMETERS FOR THIS CATEGORY

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED

AR302146

AR302146

NW MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-L5001-1-TCLPHS-L5002-1-TCLPHS-L5004-1-TCLP

LOC. 1 LOC. 2 LOC. 4
 TCLP TCLP TCLP
 UG/L UG/L UG/L
 08/03/88 08/03/88 08/03/88

888 INORGANICS 888

PP CAS NO COMPOUND

1		ALUMINUM
2		ANTIMONY
3		ARGENIC
4		BARIUM
5		BERYLLIUM
6		CADMIUM
7		CALCIUM
8		CHROMIUM
9		COPALT
10		COPPER
11		IRON
12		LEAD
13		MAGNESIUM
14		MANGANESE
15		MERCURY
16		NICKEL
17		POTASSIUM
18		SELENIUM
20		SODIUM
23		VANADIUM
24		ZINC

J 3500	J 3290	J 2850
J 168	J 66.3	J 61.6
L [6.8]	J 14.6	[6.7]
J 944	J 840	J 699
[4.5]	[4.3]	[2.1]
J 38	J 28.0	J 16.6
174000	33750	347000
B 27.5	40.4	B 11.6
J 57.7	J [36.5]	J [26.7]
J 72400	J 57300	J 13700
J 76600	J 136000	J 34200
3540	3340	477
5140	B 1310	5870
1170	589	2260
B 0.4	B 0.4	B 0.7
B 69	B 55.5	B [31.5]
B [2380]	B [2280]	B [2310]
K [4.4]	[4.9]	K [3.9]
B 1360000	B 1370000	B 1370000
B [13.6]	ND	ND
J 2540	J 1970	J 1040

NOTES :
 B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED

AR302147

AR302147

NW MANUFACTURING SITE - LAGOON SEDIMENT SAMPLES

SAMPLE NUMBER: MS-LS001-1-TCLPMS-LS002-1-TCLPMS-LS004-1-TCLP
 TRAFFIC REPORT NUMBER:
 LOCATION: LOC. 1 LOC. 2 LOC. 4
 DESCRIPTION: TCLP TCLP TCLP
 UNITS:
 DATE SAMPLED: 08/03/88 08/03/88 08/03/88

*** GEOCHEMICAL PARAMETERS ***

PP CAS NO COMPOUND

PH	6.8	6.22	6.84
CATION EXCHANGE CAPACITY MEQ/100G	11.2	8.79	8.47
SILICON	ND	ND	NA
TITANIUM	ND	ND	NA
SIEVE SIZE 3/4	ND	ND	NA
SIEVE SIZE 3/8"	ND	ND	NA
SIEVE SIZE NO. 4	ND	ND	NA
SIEVE SIZE NO. 40	ND	ND	NA
SIEVE SIZE NO. 50	ND	ND	NA
SIEVE SIZE NO. 200	ND	ND	NA
PLASTIC LIMIT	ND	ND	NA
LIQUID LIMIT	ND	ND	NA
SPECIFIC GRAVITY	ND	ND	NA

AR302148

AR302148

APPENDIX E.5.0
SURFACE WATER AND SEDIMENT SAMPLES

AR302149

AR302149

APPENDIX E.5.1
SURFACE WATER SAMPLES

AR302150.

AR302150

AR302151

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW001-1 MS-SW003-1 MS-SW004-1 MS-SW005-1 MS-SW006-1 MS-SW008-1 MS-SW008-1A
 TRAFFIC REPORT NUMBER: CL501 CL504 CL506 CL508 CL510 CL513 CL514
 LOCATION: LOC. 1 LOC. 3 LOC. 4 LOC. 5 LOC. 6 LOC. 8 LOC. 8
 DESCRIPTION: UNITS: UG/L UG/L UG/L UG/L UG/L UG/L UG/L
 DATE SAMPLED: 05/31/88 06/01/88 06/01/88 06/01/88 06/01/88 06/01/88 06/01/88

*** BASE/NEUTRALS ***

FP	CAS NO	COMPOUND
648	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
698	117-84-0	DI-N-OCTYL PHTHALATE
718	131-11-3	DIMETHYL PHTHALATE
	65-85-0	BENZOIC ACID
548	78-59-1	150PHORONE

ND	ND	J 7	J 11	J 94	J 630	J 280
ND	ND	ND	ND	J 5	J 18	J 4
ND	ND	ND	ND	J 5	ND	ND
ND	ND	ND	J 23	88	J 54	ND
R 3	R 3	R 3	R 3	R 4	R 4	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 LJ = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302152

AR302152

MW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW001-1 MS-SW003-1 MS-SW004-1 MS-SW005-1 MS-SW006-1 MS-SW008-1 MS-SW008-1A
 TRAFFIC REPORT NUMBER: CL501 CL504 CL506 CL508 CL510 CL513 CL514
 LOCATION: LOC. 1 LOC. 3 LOC. 4 LOC. 5 LOC. 6 LOC. 8
 DESCRIPTION: UG/L UG/L UG/L UG/L UG/L UG/L
 UNITS: 05/31/88 06/01/88 06/01/88 06/01/88 06/01/88 06/01/88
 DATE SAMPLED: 05/31/88 06/01/88 06/01/88 06/01/88 06/01/88 06/01/88
 *** ACIDS ***

PP	CAS NO	COMPOUND
65A	108-95-2	PHENOL
	95-48-7	2-METHYLPHENOL
	106-44-5	4-METHYLPHENOL
34A	105-67-9	2,4-DIMETHYLPHENOL

ND	ND	J 4	J 5	130	J 10	ND
ND	ND	ND	ND	J 6	J 5	ND
ND	ND	J 35	J 28	J 230	J 170	J 63
ND	ND	J 4	22	26	23	J 18

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302153

AR302153

NW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:
DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-SW001-1 CL501 LOC. 1	MS-SW003-1 CL504 LOC. 3	MS-SW004-1 CL506 LOC. 4	MS-SW005-1 CL508 LOC. 5	MS-SW006-1 CL510 LOC. 6	MS-SW008-1 CL513 LOC. 8	MS-SW008-1A CL514 LOC. 8 DUPLICATE UG/L
UG/L 05/31/88	UG/L 06/01/88	UG/L 06/01/88	UG/L 06/01/88	UG/L 06/01/88	UG/L 06/01/88	UG/L 06/01/88

*** PESTICIDES ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
ND = NOT DETECTED
NA = NOT ANALYZED

AR302154

AR302154

NW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-SW001-1
MCH793
LOC. 1
UG/L
05/31/88

MS-SW003-1
MCH796
LOC. 3
UG/L
06/01/88

MS-SW004-1
MCH798
LOC. 4
UG/L
06/01/88

MS-SW005-1
MCH800
LOC. 5
UG/L
06/01/88

MS-SW006-1
MCH802
LOC. 6
UG/L
06/01/88

MS-SW008-1
MCH805
LOC. 8
UG/L
06/01/88

MS-SW008-1A
MCH806
LOC. 8
DUPLICATE
UG/L
06/01/88

*** INORGANICS ***

FP CAS NO COMPOUND

1 ALUMINUM
2 ANTIMONY
3 ARSENIC
4 BARIUM
5 CADMIUM
6 CALCIUM
7 CHROMIUM
8 COBALT
9 COPPER
10 IRON
11 LEAD
12 MAGNESIUM
13 MANGANESE
14 NICKEL
15 POTASSIUM
16 SELENIUM
17 SILVER
18 SODIUM
19 THALLIUM
20 TIN
21 VANADIUM
22 ZINC

ND
ND
B [7.3]
[82]
ND
66600
ND
ND
195
7080
J 20.1
[4400]
324
ND
[1650]
ND
ND
R 8380
R [2.7]
ND
ND
B 56.4

18100
ND
B [5.3]
380
ND
60500
19.2
ND
238
25800
J 45.6
12300
1060
ND
[1210]
ND
ND
ND
ND
ND
[33.4]
172

10700
70.1
B 20.4
371
68.6
59400
27.7
[21.9]
58200
127000
5860
7500
974
86.4
[982]
ND
ND
B [4310]
ND
ND
[18.2]
11100

10900
127
B [7.1]
356
114
41500
26.9
[16.8]
55600
70000
5870
5370
647
92.4
[536]
ND
ND
ND
ND
ND
ND
7690

1720
60.3
B 10.8
462
18.5
15700
ND
ND
27300
36300
5820
[1910]
444
44.4
ND
ND
22.9
ND
ND
ND
ND
ND
2170

1290
77.5
B [6.2]
383
33.6
13400
ND
ND
7860
18900
3010
[1890]
351
65.2
ND
ND
15.8
ND
ND
ND
ND
ND
3270

2470
ND
B [6.3]
569
96.7
13900
11.7
ND
15100
21900
7580
[1820]
320
76.7
ND
ND
ND
ND
ND
ND
ND
ND
[17.1]
4610

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
ND = NOT DETECTED
NA = NOT ANALYZED

AR302155

AR302155

NW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER:	MS-SW001-1	MS-SW003-1	MS-SW004-1	MS-SW005-1	MS-SW006-1	MS-SW008-1	MS-SW008-1A
TRAFFIC REPORT NUMBER:		NA				NA	NA
LOCATION:	LOC. 1	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 8	LOC. 8
DESCRIPTION:							DUPLICATE
UNITS:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
DATE SAMPLED:	05/31/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88

*** GEOCHEMICAL PARAMETERS ***

IP	CAS NO	COMPOUND
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NO PARAMETERS FOR THIS CATEGORY

AR302156

AR302156

NV MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW009-1 MS-SW010-1 MS-SW011-1 MS-SW012-1 MS-SW013-1 MS-SW014-1 MS-SW015-1
 TRAFFIC REPORT NUMBER: CL523 CL525 CL527 CL529 CL531 CL535 CL537
 LOCATION: LOC. 9 LOC. 10 LOC. 11 LOC. 12 LOC. 13 LOC. 14 LOC. 15
 DESCRIPTION: UG/L UG/L UG/L UG/L UG/L UG/L UG/L
 UNITS: 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/03/88 06/03/88
 DATE SAMPLED: 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/03/88 06/03/88

*** VOLATILES ***

IP	CAS NO	COMPOUND	MS-SW009-1	MS-SW010-1	MS-SW011-1	MS-SW012-1	MS-SW013-1	MS-SW014-1	MS-SW015-1
67-64-1		ACETONE	ND	ND	ND	ND	ND	ND	ND
78-93-3		2-BUTANONE	ND	ND	ND	ND	ND	ND	ND
86-86-3		TOLUENE	ND	ND	ND	ND	ND	ND	ND
108-90-7		CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
127-18-4		TETRACHLOROETHENE	50	69	50	50	50	50	50
79-01-6		TRICHLOROETHENE	11	21	17	17	17	17	17
156-60-5		TRANS-1,2-DICHLOROETHENE	J 11	J 15	J 16	J 16	J 16	J 16	J 16
75-01-4		VINYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND
75-09-2		METHYLENE CHLORIDE	B 8	B 2	B 2	B 14	B 13	B 13	B 8

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 LJ = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302157

AR302157

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW009-1 MS-SW010-1 MS-SW011-1 MS-SW012-1 MS-SW013-1 MS-SW014-1 MS-SW015-1
 TRAFFIC REPORT NUMBER: CL523 CL525 CL527 CL529 CL531 CL535 CL537
 LOCATION: LOC. 9 LOC. 10 LOC. 11 LOC. 12 LOC. 13 LOC. 14 LOC. 15
 DESCRIPTION: UG/L UG/L UG/L UG/L UG/L UG/L UG/L
 UNITS: 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/03/88 06/03/88
 DATE SAMPLED:

*** BASE/NEUTRALS ***

FP	CAS NO	COMPOUND					
66B	117-81-7	RIS(2-ETHYLHEXYL)PHTHALATE	ND	ND	ND	ND	ND
69B	117-84-0	DI-N-OCTYL PHTHALATE	ND	ND	ND	ND	ND
71B	131-11-3	DI-METHYL PHTHALATE	ND	ND	ND	ND	ND
	65-85-0	BENZOIC ACID	ND	ND	ND	ND	ND
54B	78-59-1	150PHORONE	R S	R S	R 3	R 3	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302158

AR000158

SAMPLE NUMBER: _____
TRAFFIC REPORT NUMBER: _____
LOCATION: _____
DESCRIPTION: _____
UNITS: _____
DATE SAMPLED: _____

[illegible]

*** ACTIONS ***

I.P.	CAS NO	COMPOUND
65A	108-95-2	PHENOL
	95-48-7	2-METHYLPHENOL
	106-44-5	4-METHYLPHENOL
34A	105-67-9	2,4-DIMETHYLPHENOL

Country	Year	Value	Unit
Algeria	2000	1.0	kg
Algeria	2001	1.0	kg
Algeria	2002	1.0	kg
Algeria	2003	1.0	kg
Algeria	2004	1.0	kg
Algeria	2005	1.0	kg
Algeria	2006	1.0	kg
Algeria	2007	1.0	kg
Algeria	2008	1.0	kg
Algeria	2009	1.0	kg
Algeria	2010	1.0	kg
Algeria	2011	1.0	kg
Algeria	2012	1.0	kg
Algeria	2013	1.0	kg
Algeria	2014	1.0	kg
Algeria	2015	1.0	kg
Algeria	2016	1.0	kg
Algeria	2017	1.0	kg
Algeria	2018	1.0	kg
Algeria	2019	1.0	kg
Algeria	2020	1.0	kg
Algeria	2021	1.0	kg
Algeria	2022	1.0	kg
Algeria	2023	1.0	kg
Algeria	2024	1.0	kg
Algeria	2025	1.0	kg
Algeria	2026	1.0	kg
Algeria	2027	1.0	kg
Algeria	2028	1.0	kg
Algeria	2029	1.0	kg
Algeria	2030	1.0	kg
Algeria	2031	1.0	kg
Algeria	2032	1.0	kg
Algeria	2033	1.0	kg
Algeria	2034	1.0	kg
Algeria	2035	1.0	kg
Algeria	2036	1.0	kg
Algeria	2037	1.0	kg
Algeria	2038	1.0	kg
Algeria	2039	1.0	kg
Algeria	2040	1.0	kg
Algeria	2041	1.0	kg
Algeria	2042	1.0	kg
Algeria	2043	1.0	kg
Algeria	2044	1.0	kg
Algeria	2045	1.0	kg
Algeria	2046	1.0	kg
Algeria	2047	1.0	kg
Algeria	2048	1.0	kg
Algeria	2049	1.0	kg
Algeria	2050	1.0	kg
Algeria	2051	1.0	kg
Algeria	2052	1.0	kg
Algeria	2053	1.0	kg
Algeria	2054	1.0	kg
Algeria	2055	1.0	kg
Algeria	2056	1.0	kg
Algeria	2057	1.0	kg
Algeria	2058	1.0	kg
Algeria	2059	1.0	kg
Algeria	2060	1.0	kg
Algeria	2061	1.0	kg
Algeria	2062	1.0	kg
Algeria	2063	1.0	kg
Algeria	2064	1.0	kg
Algeria	2065	1.0	kg
Algeria	2066	1.0	kg
Algeria	2067	1.0	kg
Algeria	2068	1.0	kg
Algeria	2069	1.0	kg
Algeria	2070	1.0	kg
Algeria	2071	1.0	kg
Algeria	2072	1.0	kg
Algeria	2073	1.0	kg
Algeria	2074	1.0	kg
Algeria	2075	1.0	kg
Algeria	2076	1.0	kg
Algeria	2077	1.0	kg
Algeria	2078	1.0	kg
Algeria	2079	1.0	kg
Algeria	2080	1.0	kg
Algeria	2081	1.0	kg
Algeria	2082	1.0	kg
Algeria	2083	1.0	kg
Algeria	2084	1.0	kg
Algeria	2085	1.0	kg
Algeria	2086	1.0	kg
Algeria	2087	1.0	kg
Algeria	2088	1.0	kg
Algeria	2089	1.0	kg
Algeria	2090	1.0	kg
Algeria	2091	1.0	kg
Algeria	2092	1.0	kg
Algeria	2093	1.0	kg
Algeria	2094	1.0	kg
Algeria	2095	1.0	kg
Algeria			

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
ND = NOT DETECTED
NA = NOT ANALYZED

AR302159

AR 332159

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW009-1 MS-SW010-1 MS-SW011-1 MS-SW012-1 MS-SW013-1 MS-SW014-1 MS-SW015-1
 TRAFFIC REPORT NUMBER: CL523 CL525 CL527 CL529 CL531 CL535 CL537
 LOCATION: LOC. 9 LOC. 10 LOC. 11 LOC. 12 LOC. 13 LOC. 14 LOC. 15
 DESCRIPTION:
 UNITS: UG/L UG/L UG/L UG/L UG/L UG/L UG/L
 DATE SAMPLED: 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/03/88 06/03/88

*** PESTICIDES ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302160

AR302160

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-SW009-1 MS-SW010-1 MS-SW011-1 MS-SW012-1 MS-SW013-1 MS-SW014-1 MS-SW015-1
 MCM810 MCM812 MCM814 MCM816 MCM818 MCM822 MCM824
 LOC. 9 LOC. 10 LOC. 11 LOC. 12 LOC. 13 LOC. 14 LOC. 15
 UG/L UG/L UG/L UG/L UG/L UG/L UG/L
 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88 06/03/88 06/03/88

*** INORGANICS ***

FP	CAS NO	CONFOUND
1	ALUMINUM	
2	ANTIMONY	
3	ARSENIC	
4	BARIUM	
6	CADMIUM	
7	CALCIUM	
8	CHROMIUM	
9	CORAL	
10	COFFER	
11	IRON	
12	LEAD	
13	MAGNESIUM	
14	MANGANESE	
16	NICKEL	
17	POTASSIUM	
18	SELENIUM	
19	SILVER	
20	SODIUM	
21	THALLIUM	
22	TIN	
23	VANADIUM	
24	ZINC	

R 418	R 247	R 295	R 314	R [165]	R 279	R 242
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
[37]	[34.3]	[67.3]	[31.7]	[27.5]	[30.1]	[25.9]
30900	29600	51900	27700	25500	21300	20300
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	358	ND	ND	ND	ND
R 760	R 612	J 5370	R 623	R 558	R 550	R 742
R [2.0]	R [1.2]	29.6	ND	ND	ND	ND
8120	7640	[3440]	7310	6450	6300	6140
R 53.6	R 37.8	448	R 30.6	R 27.9	R 38.3	R 39.8
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	[1040]	[1040]
ND	ND	ND	ND	ND	ND	ND
R 14500	R 11300	R 5910	R 20700	R 14300	R 4960	R 6200
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	R [14]	179	R [13.5]	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302161

AR302161

NW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER:	MS-SW009-1	MS-SW010-1	MS-SW011-1	MS-SW012-1	MS-SW013-1	MS-SW014-1	MS-SW015-1
TRAFFIC REPORT NUMBER:	NA	NA	NA	NA	NA	NA	NA
LOCATION:	LOC. 9	LOC. 10	LOC. 11	LOC. 12	LOC. 13	LOC. 14	LOC. 15
DESCRIPTION:							
UNITS:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
DATE SAMPLED:	06/02/88	06/02/88	06/02/88	06/02/88	06/02/88	06/03/88	06/03/88

*** GEOCHEMICAL PARAMETERS ***

IP	CAS NO	COMPOUND
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NO PARAMETERS FOR THIS CATEGORY

AR302162

AR002162

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW016-1
 TRAFFIC REPORT NUMBER: CL539
 LOCATION: LOC. 16
 DESCRIPTION: UG/L
 UNITS: 06/03/88
 DATE SAMPLED:

*** VOLATILES ***

FP	CAS NO	COMPOUND	
67-64-1		ACETONE	ND
78-93-3		2-BUTANONE	ND
860	108-88-3	TOLUENE	ND
70	108-90-7	CHLOROBENZENE	ND
850	127-18-4	TETRACHLOROETHENE	ND
870	79-01-6	TRICHLOROETHENE	ND
300	156-60-5	TRANS-1,2-DICHLOROETHENE	ND
880	75-01-4	VINYL CHLORIDE	ND
440	75-09-2	METHYLENE CHLORIDE	R 10

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C] = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302163

AR302163

MW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW016-1
 TRAFFIC REPORT NUMBER: CL539
 LOCATION: LOC. 16
 DESCRIPTION: UG/L
 UNITS: 06/03/88
 DATE SAMPLED: -----

*** BASE/NEUTRALS ***

IP	CAS NO	COMPOUND	
64B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND
69B	117-84-0	DI-N-OCTYL PHTHALATE	ND
71B	131-11-3	DIMETHYL PHTHALATE	ND
65-85-0		BENZOIC ACID	ND
54B	78-59-1	ISOPHORONE	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 UJ = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302164

AR302164

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW016-1
 TRAFFIC REPORT NUMBER: CL539
 LOCATION: LOC. 16
 DESCRIPTION:
 UNITS:
 DATE SAMPLED: 06/03/88
 UG/L

*** ACIDS ***

FP	CAS NO	COMPOUND	
65A	108-95-2	PHENOL	ND
	95-48-7	2-METHYLPHENOL	ND
	106-44-5	4-METHYLPHENOL	ND
34A	105-67-9	2,4-DIMETHYLPHENOL	ND

NOTES :
 R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302165

AR302165

HW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW016-1
 TRAFFIC REPORT NUMBER: CL339
 LOCATION: LOC. 16
 DESCRIPTION: UG/L
 UNITS: 06/03/88
 DATE SAMPLED:

*** PESTICIDES ***

PP	CAS NO	COMPOUND
NO PARAMETERS FOR THIS CATEGORY		

NO PARAMETERS FOR THIS CATEGORY

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302166

AR302166

NW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SW016-1
 TRAFFIC REPORT NUMBER: MCH826
 LOCATION: LOC. 16
 DESCRIPTION:
 UNITS: UG/L
 DATE SAMPLED: 06/03/88

*** INORGANICS ***

FP	CAS NO	COMPOUND	
1		ALUMINUM	R 245
2		ANTIMONY	ND
3		ARSENIC	ND
4		BARIUM	[22.2]
5		CADMIUM	ND
6		CALCIUM	19400
7		CHROMIUM	ND
8		CORAL	ND
9		COPPER	ND
10		IRON	R 373
11		LEAD	ND
12		MAGNESIUM	[4630]
13		MANGANESE	R 22.2
14		NICKEL	ND
15		POTASSIUM	ND
16		SELENIUM	ND
17		SILVER	ND
18		SODIUM	R 7540
19		THALLIUM	ND
20		TIN	ND
21		VANADIUM	ND
22		ZINC	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE
 ND = NOT DETECTED
 NA = NOT ANALYZED

AR302167

AR302167

MW MANUFACTURING SITE - SURFACE WATER SAMPLES

SAMPLE NUMBER: MS-SN016-1
TRAFFIC REPORT NUMBER: NA
LOCATION: LOC. 16
DESCRIPTION:
UNITS: MG/L
DATE SAMPLED: 06/03/88

*** GEOCHEMICAL PARAMETERS ***

FP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302168

AR302168

APPENDIX E.5.2
SEDIMENT SAMPLES

AR302169

AR302169

MW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
% MOISTURE:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-S1001-1
CL502
80.8
LOC. 1
UG/KG
05/31/88

MS-S1002-1
CL503
66.6
LOC. 2
UG/KG
06/01/88

MS-S1003-1
CL505
40.5
LOC. 3
UG/KG
06/01/88

MS-S1004-1
CL507
31.7
LOC. 4
UG/KG
06/01/88

MS-S1005-1
CL509
55.8
LOC. 5
UG/KG
06/01/88

MS-S1006-1
CL511
56.3
LOC. 6
UG/KG
06/01/88

MS-S1007-1
CL512
40.4
LOC. 7
UG/KG
06/01/88

*** VOLATILES ***

IP	CAS NO	COMPOUND
67-64-1		ACETONE
78-93-3		2-BUTANONE
86V	108-88-3	TOLUENE
7V	108-90-7	CHLOROBENZENE
11V	71-55-6	1,1,1-TRICHLOROETHANE
85V	127-18-4	TETRACHLOROETHENE
87V	79-01-6	TRICHLOROETHENE
30V	156-60-5	TRANS-1,2-DICHLOROETHENE
88V	75-01-4	VINYL CHLORIDE
44V	75-09-2	METHYLENE CHLORIDE
75-15-0		CARBON DISULFIDE

R 110
R 31
ND
R 12
ND
ND
ND
ND
ND
ND
R 51
ND

7100
B 12000
J 390
J 370
J 210
30000
910
9300
3000
1900
ND

B 84
R 20
ND
ND
ND
ND
ND
J 6
J 4
R 9
ND

B 130
R 41
J 23
R 3
ND
ND
ND
ND
ND
B 11
J 4

J 520
R 140
J 9
R 5
ND
J 4
ND
J 62
J 15
R 16
ND

22000
B 15000
J 1200
J 770
ND
ND
ND
ND
ND
5000
ND

R 280
R 29
J 3
B 4
ND
ND
ND
ND
J 11
ND
R 24
ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE

AR302170

HW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

% MOISTURE:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-SI001-1	MS-SI002-1	MS-SI003-1	MS-SI004-1	MS-SI005-1	MS-SI006-1	MS-SI007-1
CL502	CL503	CL505	CL507	CL509	CL511	CL512
80.8	66.6	40.5	31.7	55.8	56.3	40.4
LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
05/31/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88

*** BASE/NEUTRALS ***

FP CAS NO COMPOUND

FP	CAS NO	COMPOUND	J 150000	R 820000	J 380000	J 280000	19000
668	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	ND	ND	ND	ND	ND
698	117-84-0	DI-N-DECYL PHTHALATE	ND	ND	ND	ND	ND
698	84-74-2	DI-N-BUTYL PHTHALATE	ND	ND	ND	ND	ND
708	84-66-2	DIETHYL PHTHALATE	ND	ND	ND	ND	ND
118	83-32-9	ACENAPHTHENE	ND	ND	ND	ND	ND
788	120-12-7	ANTHRACENE	ND	ND	ND	ND	ND
728	56-55-3	BENZO(A)ANTHRACENE	ND	ND	ND	ND	ND
748	205-99-2	BENZO(B)FLUORANTHENE	ND	ND	ND	ND	ND
748	207-08-9	BENZO(K)FLUORANTHENE	ND	ND	ND	ND	ND
798	191-24-2	BENZO(G,H,I)PERYLENE	ND	ND	ND	ND	ND
738	50-32-8	BENZO(A)PYRENE	ND	ND	ND	ND	ND
768	218-01-9	CHRYSENE	ND	ND	ND	ND	ND
828	53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ND	ND	ND	ND
398	206-44-0	FLUORANTHENE	ND	ND	ND	ND	ND
808	86-73-7	FLUORENE	ND	ND	ND	ND	ND
838	193-39-5	INDENO(1,2,3-CD)PYRENE	ND	ND	ND	ND	ND
818	85-01-8	PHENANTHRENE	ND	ND	ND	ND	ND
948	129-00-0	PYRENE	ND	ND	ND	ND	ND
132-64-9		DIBENZOFURAN	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE

AR302171

AR302171

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
% MOISTURE:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-S0001-1 CL502 80.8 LOC. 1 UG/KG 05/31/88	MS-S0002-1 CL503 66.6 LOC. 2 UG/KG 06/01/88	MS-S0003-1 CL505 40.5 LOC. 3 UG/KG 06/01/88	MS-S0004-1 CL507 31.7 LOC. 4 UG/KG 06/01/88	MS-S0005-1 CL509 55.8 LOC. 5 UG/KG 06/01/88	MS-S0006-1 CL511 56.3 LOC. 6 UG/KG 06/01/88	MS-S0007-1 CL512 40.4 LOC. 7 UG/KG 06/01/88
--	--	--	--	--	--	--

*** ACINS ***

FP CAS NO COMPOUND

65A 108-95-2 PHENOL

ND	J 8100	ND	ND	ND	ND	J 120
----	--------	----	----	----	----	-------

NOTES :
R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE

AR302172

AR302172

HW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 % MOISTURE:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-S10001-1	MS-S10002-1	MS-S10003-1	MS-S10004-1	MS-S10005-1	MS-S10006-1	MS-S10007-1
CL502	CL503	CL505	CL507	CL509	CL511	CL512
80.8	66.6	40.5	31.7	55.8	56.3	40.4
LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
UG/KG	UG/KG	UG/AG	UG/KG	UG/KG	UG/KG	UG/KG
05/31/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88

*** PESTICIDES ***

TP CAS NO COMPOUND

90P 60-57-1 DIELDRIN
 106P 53469-21-9 ARDCLOR-1242

ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND

AR302173

AR302173

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
% MOISTURE:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

[illegible]

1-2	CAS NO	COMPOUND
1	100-10-7	1,2-DICHLOROETHANE
2	100-41-4	1,1-DICHLOROETHANE
3	100-44-7	1,1,1-TRICHLOROETHANE
4	100-47-1	1,1,2-TRICHLOROETHANE
5	100-54-6	1,1,2,2-TETRACHLOROETHANE
6	100-59-1	1,1,1,2-TETRACHLOROETHANE
7	100-61-3	1,1,2,2-TETRACHLOROETHYLENE
8	100-62-5	1,1,2,2-TETRACHLOROETHYLENE
9	100-63-7	1,1,2,2-TETRACHLOROETHYLENE
10	100-64-9	1,1,2,2-TETRACHLOROETHYLENE
11	100-65-1	1,1,2,2-TETRACHLOROETHYLENE
12	100-66-3	1,1,2,2-TETRACHLOROETHYLENE
13	100-67-5	1,1,2,2-TETRACHLOROETHYLENE
14	100-68-7	1,1,2,2-TETRACHLOROETHYLENE
15	100-69-9	1,1,2,2-TETRACHLOROETHYLENE
16	100-70-1	1,1,2,2-TETRACHLOROETHYLENE
17	100-71-3	1,1,2,2-TETRACHLOROETHYLENE
18	100-72-5	1,1,2,2-TETRACHLOROETHYLENE
19	100-73-7	1,1,2,2-TETRACHLOROETHYLENE
20	100-74-9	1,1,2,2-TETRACHLOROETHYLENE
21	100-75-1	1,1,2,2-TETRACHLOROETHYLENE
22	100-76-3	1,1,2,2-TETRACHLOROETHYLENE
23	100-77-5	1,1,2,2-TETRACHLOROETHYLENE
24	100-78-7	1,1,2,2-TETRACHLOROETHYLENE
25	100-79-9	1,1,2,2-TETRACHLOROETHYLENE
26	100-80-1	1,1,2,2-TETRACHLOROETHYLENE
27	100-81-3	1,1,2,2-TETRACHLOROETHYLENE
28	100-82-5	1,1,2,2-TETRACHLOROETHYLENE
29	100-83-7	1,1,2,2-TETRACHLOROETHYLENE
30	100-84-9	1,1,2,2-TETRACHLOROETHYLENE
31	100-85-1	1,1,2,2-TETRACHLOROETHYLENE
32	100-86-3	1,1,2,2-TETRACHLOROETHYLENE
33	100-87-5	1,1,2,2-TETRACHLOROETHYLENE
34	100-88-7	1,1,2,2-TETRACHLOROETHYLENE
35	100-89-9	1,1,2,2-TETRACHLOROETHYLENE
36	100-90-1	1,1,2,2-TETRACHLOROETHYLENE
37	100-91-3	1,1,2,2-TETRACHLOROETHYLENE
38	100-92-5	1,1,2,2-TETRACHLOROETHYLENE
39	100-93-7	1,1,2,2-TETRACHLOROETHYLENE
40	100-94-9	1,1,2,2-TETRACHLOROETHYLENE
41	100-95-1	1,1,2,2-TETRACHLOROETHYLENE
42	100-96-3	1,1,2,2-TETRACHLOROETHYLENE
43	100-97-5	1,1,2,2-TETRACHLOROETHYLENE
44	100-98-7	1,1,2,2-TETRACHLOROETHYLENE
45	100-99-9	1,1,2,2-TETRACHLOROETHYLENE
46	100-100-1	1,1,2,2-TETRACHLOROETHYLENE
47	100-101-3	1,1,2,2-TETRACHLOROETHYLENE
48	100-102-5	1,1,2,2-TETRACHLOROETHYLENE
49	100-103-7	1,1,2,2-TETRACHLOROETHYLENE
50	100-104-9	1,1,2,2-TETRACHLOROETHYLENE
51	100-105-1	1,1,2,2-TETRACHLOROETHYLENE
52	100-106-3	1,1,2,2-TETRACHLOROETHYLENE
53	100-107-5	1,1,2,2-TETRACHLOROETHYLENE
54	100-108-7	1,1,2,2-TETRACHLOROETHYLENE
55	100-109-9	1,1,2,2-TETRACHLOROETHYLENE
56	100-110-1	1,1,2,2-TETRACHLOROETHYLENE
57	100-111-3	1,1,2,2-TETRACHLOROETHYLENE
58	100-112-5	1,1,2,2-TETRACHLOROETHYLENE
59	100-113-7	1,1,2,2-TETRACHLOROETHYLENE
60	100-114-9	1,1,2,2-TETRACHLOROETHYLENE
61	100-115-1	1,1,2,2-TETRACHLOROETHYLENE
62	100-116-3	1,1,2,2-TETRACHLOROETHYLENE
63	100-117-5	1,1,2,2-TETRACHLOROETHYLENE
64	100-118-7	1,1,2,2-TETRACHLOROETHYLENE
65	100-119-9	1,1,2,2-TETRACHLOROETHYLENE
66	100-120-1	1,1,2,2-TETRACHLOROETHYLENE
67	100-121-3	1,1,2,2-TETRACHLOROETHYLENE
68	100-122-5	1,1,2,2-TETRACHLOROETHYLENE
69	100-123-7	1,1,2,2-TETRACHLOROETHYLENE
70	100-124-9	1,1,2,2-TETRACHLOROETHYLENE
71	100-125-1	1,1,2,2-TETRACHLOROETHYLENE
72	100-126-3	1,1,2,2-TETRACHLOROETHYLENE
73	100-127-5	1,1,2,2-TETRACHLOROETHYLENE
74	100-128-7	1,1,2,2-TETRACHLOROETHYLENE
75	100-129-9	1,1,2,2-TETRACHLOROETHYLENE
76	100-130-1	1,1,2,2-TETRACHLOROETHYLENE
77	100-131-3	1,1,2,2-TETRACHLOROETHYLENE
78	100-132-5	1,1,2,2-TETRACHLOROETHYLENE
79	100-133-7	1,1,2,2-TETRACHLOROETHYLENE
80	100-134-9	1,1,2,2-TETRACHLOROETHYLENE
81	100-135-1	1,1,2,2-TETRACHLOROETH

1	ALUMINIUM	10600	ND	9080	11600	11500	7500	8740
2	ANTIMONY	ND	ND	ND	ND	ND	ND	ND
3	ARSENIC	R 18	R [3.3]	R [2.9]	R 5.6	R 5.0	R 7.0	R 7.7
4	BARIUM	195	ND	110	57	100	127	83.5
5	BERYLLIUM	ND	ND	[.48]	[.58]	[.613]	ND	[.50]
6	CADMIUM	79.2	ND	ND	7.3	3.2	22.8	2.3
7	CALCIUM	7720	ND	1880	2680	2450	[12303]	[13003]
8	CHLORINE	26.9	ND	13.9	19.7	16	16.1	13.5
9	COBALT	[17.3]	ND	[4.9]	[11.7]	[8.3]	ND	[3.3]
10	COPPER	J 24800	ND	J 14.1	J 3530	J 1850	J 9330	J 1460
11	IRON	35100	ND	19900	30800	31200	13100	24400
12	LEAD	1570	691	16.2	188	145	847	118
13	MAGNESIUM	[3680]	ND	2270	4830	2340	[18003]	1950
14	MANGANESE	121	ND	692	154	345	83.7	115
16	NICKEL	99.9	ND	[9.9]	33.9	26.6	26.8	[11.6]
17	POTASSIUM	[409]	ND	[598]	[578]	[433]	[365]	[400]
20	SODIUM	R [3310]	ND	R [1200]	ND	ND	ND	ND
21	THALLIUM	ND	R [43]	ND	ND	ND	ND	ND
23	VANADIUM	[27.3]	ND	16.1	18.8	18.6	[14.7]	16.9
24	ZINC	6950	ND	30.8	1080	245	982	187

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE

AR302174

AR302174

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:	MS-S0001-1	MS-S0002-1	MS-S0003-1	MS-S0004-1	MS-S0005-1	MS-S0006-1	MS-S0007-1
TRAFFIC REPORT NUMBER:	NA	NA	NA	NA	NA	NA	NA
Z MOISTURE:	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7
LOCATION:	MG/KG	MG//KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
DESCRIPTION:	05/31/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88	06/01/88
UNITS:							
DATE SAMPLED:							

*** GEOCHEMICAL PARAMETERS ***

1-P	CAS NO	COMPOUND
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NO PARAMETERS FOR THIS CATEGORY

AR302175

AR302175

HW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
% MOISTURE:
LOCATION:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-S0008-1
CL515
40.6
LOC. 8
UG/KG
06/01/88

MS-S0008-1A
CL516
49.0
LOC. 8
DUPLICATE
UG/KG
06/01/88

MS-S0009-1
CL524
32.5
LOC. 9
UG/KG
06/02/88

MS-S0010-1
CL526
37.5
LOC. 10
UG/KG
06/02/88

MS-S0011-1
CL528
43.5
LOC. 11
UG/KG
06/02/88

MS-S0012-1
CL530
43.9
LOC. 12
UG/KG
06/02/88

MS-S0013-1
CL532
41.9
LOC. 13
UG/KG
06/02/88

*** VOLATILES ***

FP CAS NO COMPOUND

67-64-1 ACETONE
78-93-3 2-BUTANONE
96V 108-88-3 TOLUENE
70V 108-90-7 CHLOROBENZENE
11V 71-55-6 1,1,1-TRICHLOROETHANE
85V 127-18-4 TETRACHLOROETHENE
87V 79-01-6 TRICHLOROETHENE
30V 156-60-5 TRANS-1,2-DICHLOROETHENE
98V 75-01-4 VINYL CHLORIDE
14V 75-09-2 METHYLENE CHLORIDE
75-15-0 CARBON DISULFIDE

R 290
R 70
J 57
R 13
ND
ND
ND
J 21
J 16
R 61
ND

R 150
R 23
J 37
R 5
ND
ND
ND
J 10
J 5
R 21
ND

R 46
R 8
ND
ND
ND
ND
ND
ND
ND
R 4
ND

R 58
R 8
ND
R 4
ND
8
J 5
J 14
ND
R 13
ND

R 220
R 30
ND
R 4
ND
ND
ND
J 7
ND
R 19
ND

R 92
R 23
ND
R 9
ND
ND
ND
J 780
J 12
R 22
ND

R 24
R 8
ND
R 4
ND
ND
ND
ND
ND
R 17
ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
() = APPROXIMATE VALUE

AR302176

AR302176

AR302177

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 % MOISTURE:
 LOCATION:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-SR008-1 CL515 40.6 LOC. 8 UG/KG 06/01/88	MS-SR008-1A CL516 49.0 LOC. 8 DUPLICATE UG/KG 06/01/88	MS-SR009-1 CL524 32.5 LOC. 9 UG/KG 06/02/88	MS-SR010-1 CL526 37.5 LOC. 10 UG/KG 06/02/88	MS-SR011-1 CL528 43.5 LOC. 11 UG/KG 06/02/88	MS-SR012-1 CL530 43.9 LOC. 12 UG/KG 06/02/88	MS-SR013-1 CL532 41.9 LOC. 13 UG/KG 06/02/88
--	--	--	---	---	---	---

*** ACIDS ***

FF CAS NO COMPOUND

65A 108-95-2 PHENOL

ND	ND	ND	ND	ND	ND	ND
----	----	----	----	----	----	----

AR302178

AR302178

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER: MS-S0008-1 MS-S0008-1A MS-S0009-1 MS-S0010-1 MS-S0011-1 MS-S0012-1 MS-S0013-1
 TRAFFIC REPORT NUMBER: CL515 CL516 CL524 CL526 CL528 CL530 CL532
 % MOISTURE: 40.6 49.0 32.5 37.5 43.5 43.9 41.9
 LOCATION: LOC. 8 LOC. 8 LOC. 9 LOC. 10 LOC. 11 LOC. 12 LOC. 13
 DESCRIPTION: DUPLICATE
 UNITS: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 06/01/88 06/01/88 06/02/88 06/02/88 06/02/88 06/02/88 06/02/88

*** PESTICIDES ***

PP CAS NO COMPOUND
 90P 60-57-1 DIELDRIN
 106P 53469-21-9 AROCLOR-1242

ND ND ND ND ND ND ND
 ND ND ND ND ND ND ND

AR302179

AR302179

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE PLANK
 J = APPROXIMATE VALUE
 (J) = APPROXIMATE VALUE

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

% MOISTURE:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-S0008-1
MCH807
36.6
LOC. 8
MG/KG
06/01/88

MS-S0008-1A
MCH808
48.2
LOC. 8
DUPLICATE
MG/KG
06/01/88

MS-S0009-1
MCH811
31.8
LOC. 9
MG/KG
06/02/88

MS-S0010-1
MCH813
37.3
LOC. 10
MG/KG
06/02/88

MS-S0011-1
MCH815
46
LOC. 11
MG/KG
06/02/88

MS-S0012-1
MCH817
39
LOC. 12
MG/KG
06/02/88

MS-S0013-1
MCH819
42.5
LOC. 13
MG/KG
06/02/88

*** INORGANICS ***

FP CAS NO COMFOUNT

1	ALUMINUM	9910	12900	11900	9370	13700	9770	8210
2	ANTIMONY	ND	ND	ND	ND	L [19.9]	ND	ND
3	ARSENIC	R 5.3	R 4.9	R 8.7	R 6.8	R 7.6	R 9.8	R [3.4]
4	BARIUM	125	146	89	79.9	120	95.8	83.6
5	BERYLLIUM	[.54]	[.73]	[.88]	[.83]	[.67]	[.75]	[.52]
6	CADMIUM	40.3	26	2.1	ND	J 8.3	J 1.7	ND
7	CALCIUM	[617]	[768]	[1340]	J 7160	J 3320	J 4070	J 2930
8	CHROMIUM	18.5	24.4	29.9	25	24.2	22.9	13.6
9	CORAL	[3.7]	[6.1]	[13]	[14.5]	[11.7]	[15]	[10.1]
10	COPPER	J 5050	J 5530	J 28.8	27.4	2980	20	[7.8]
11	IRON	18800	21800	48800	41700	33700	34400	19300
12	LEAD	1030	2410	18.2	17.5	299	24.6	14.7
13	MAGNESIUM	[1410]	[1840]	3390	2820	3070	2480	1750
14	MANGANESE	88.8	92.5	640	686	219	628	371
16	NICKEL	16.3	26.2	40	32.1	29.6	29.2	20.4
17	POTASSIUM	ND	[551]	[497]	[398]	[839]	[141]	ND
20	SODIUM	R 1760	ND	R [1470]	ND	ND	ND	ND
21	THALLIUM	ND	ND	ND	R [1.40]	24.8	20.7	[16.2]
23	VANADIUM	23.9	27.5	27.7	24.5	1040	104	62.8
24	ZINC	1080	1050	87.1	93.4			

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE

AR302180

AR302180

HW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

% MOISTURE:

LOCATION:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-S1008-1 NA	MS-S1008-1A NA	MS-S1009-1 NA	MS-S1010-1 NA	MS-S1011-1 NA	MS-S1012-1 NA	MS-S1013-1 NA
LOC. 8	LOC. 8	LOC. 9	LOC. 10	LOC. 11	LOC. 12	LOC. 13
MG/KG 06/01/88	MG/KG 06/01/88	MG/KG 06/02/88	MG/KG 06/02/88	MG/KG 06/02/88	MG/KG 06/02/88	MG/KG 06/02/88

*** GEOCHEMICAL PARAMETERS ***

GP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302181

AR302181

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER: MS-S0014-1 MS-S0015-1 MS-S0016-1
 TRAFFIC REPORT NUMBER: CL536 CL538 CL540
 % MOISTURE: 54.1 47.5 32.6
 LOCATION: LOC. 14 LOC. 15 LOC. 16
 DESCRIPTION:
 UNITS: UG/KG UG/KG UG/KG
 DATE SAMPLED: 06/03/88 06/03/88 06/03/88

*** VOLATILES ***

FP	CAS NO	COMPOUND	
67-64-1		ACETONE	R 51
78-93-3		2-BUTANONE	R 12
86V 108-88-3		TOLUENE	ND
7U 108-90-7		CHLOROBENZENE	ND
11U 71-55-6		1,1,1-TRICHLOROETHANE	ND
85V 127-18-4		TETRACHLOROETHENE	ND
87V 79-01-6		TRICHLOROETHENE	ND
30V 156-60-5		TRANS-1,2-DICHLOROETHENE	ND
88V 75-01-4		VINYL CHLORIDE	ND
44V 75-09-2		METHYLENE CHLORIDE	R 20
75-15-0		CARBON DISULFIDE	ND
			R 100
			R 21
			ND
			R 4
			ND
			ND
			ND
			ND
			ND
			R 17
			ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE

AR302182

AR302182

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER: MS-S0015-1 MS-S0016-1
 TRAFFIC REPORT NUMBER: CL538 CL540
 % MOISTURE: 47.5 32.6
 LOCATION: LOC. 15 LOC. 16
 DESCRIPTION: LOC. 14
 UNITS: UG/KG UG/KG
 DATE SAMPLED: 06/03/88 06/03/88

*** BASE/NEUTRALS ***

PF	CAS NO	COMPOUND		
668	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	J 220	ND
698	117-84-0	DI-N-OCTYL PHTHALATE	ND	ND
688	84-74-2	DI-N-BUTYL PHTHALATE	R 150	ND
708	84-66-2	DIETHYL PHTHALATE	ND	ND
18	83-32-9	ACENAPHTHENE	ND	ND
788	120-12-7	ANTHRACENE	ND	ND
728	56-55-3	BENZO(A)ANTHRACENE	J 300	J 150
748	205-99-2	BENZO(B)FLUORANTHENE	J 290	J 160
207	207-08-9	BENZO(K)FLUORANTHENE	J 370	J 210
798	191-24-2	BENZO(G,H,I)PERYLENE	J 200	J 110
738	50-32-8	BENZO(A)PYRENE	J 290	J 160
768	218-01-9	CHRYSENE	J 360	J 180
828	53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ND
398	206-44-0	FLUORANTHENE	J 600	J 270
808	86-73-7	FLUORENE	ND	ND
938	193-39-5	INDENO(1,2,3-CD)PYRENE	J 220	J 120
818	85-01-8	PHENANTHRENE	J 180	J 81
848	129-00-0	PYRENE	J 510	J 240
132	64-9	DIBENZOFURAN	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 (J) = APPROXIMATE VALUE

AR302183

AR302183

MW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER: MS-SK014-1 MS-SK015-1 MS-SK016-1
 TRAFFIC REPORT NUMBER: CL536 CL538 CL540
 % MOISTURE: 54.1 47.5 32.6
 LOCATION: LOC. 14 LOC. 15 LOC. 16
 DESCRIPTION:
 UNITS: UG/KG UG/KG UG/KG
 DATE SAMPLED: 06/03/88 06/03/88 06/03/88

*** ACIDS ***

PF	CAS NO	COMPOUND
----	--------	----------

65A	108-95-2	PHENOL
-----	----------	--------

ND	J 110	ND
----	-------	----

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 C] = APPROXIMATE VALUE

AR302184

AR302184

HW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER: MS-SR014-1 MS-SR015-1 MS-SR016-1
 TRAFFIC REPORT NUMBER: CL538 CL540
 % MOISTURE: 54.1 47.5 32.6
 LOCATION: LOC. 14 LOC. 15 LOC. 16
 DESCRIPTION:
 UNITS: UG/KG UG/KG UG/KG
 DATE SAMPLED: 06/03/88 06/03/88 06/03/88

*** PESTICIDES ***

PP	CAS NO	COMPOUND
----	--------	----------

90P 60-57-1	DIELDRIN	ND
106P 53469-21-9	AROCOR-1242	ND

NOTES : B = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 CJ = APPROXIMATE VALUE

AR302185

AR302185

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER: MS-S0015-1 MS-S0016-1
 TRAFFIC REPORT NUMBER: MCHB25 MCHB27
 % MOISTURE: 56 35.6
 LOCATION: LOC. 15 LOC. 16
 DESCRIPTION: LOC. 14 LOC. 16
 UNITS: MG/KG MG/KG
 DATE SAMPLED: 06/03/88 06/03/88

*** INORGANICS ***

PPM	CAS NO	COMPOUND	MS-S0014-1 MCHB23 LOC. 14 MG/KG 06/03/88	MS-S0015-1 MCHB25 LOC. 15 MG/KG 06/03/88	MS-S0016-1 MCHB27 LOC. 16 MG/KG 06/03/88
1		ALUMINUM	9160	13400	9280
2		ANTHRONY	ND	ND	ND
3		ARSENIC	R 4.2	R 5.2	R 7.4
4		BARIUM	89.5	142	70.1
5		BERYLLIUM	C.543	L.973	ND
6		CADMIUM	ND	ND	ND
7		CALCIUM	J 2190	J [2090]	J 1660
8		CHROMIUM	17.5	27.6	15.3
9		CORALIT	[13.1]	[18.7]	[13.3]
10		COPPER	ND	12.6	9.2
11		IRON	23700	43600	26100
12		LEAD	16.9	12.7	14.3
13		MAGNESIUM	[1680]	3020	2190
14		MANGANESE	705	1130	575
16		NICKEL	18.1	36.4	30
17		POTASSIUM	[519]	ND	[577]
20		SODIUM	R [1330]	ND	R [1520]
21		THALLIUM	ND	ND	R [1.53]
23		VANADIUM	[16.4]	25.2	17.2
24		ZINC	57.8	102	67.6

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE

AR302186

AR302186

NW MANUFACTURING SITE - SEDIMENT SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

% MOISTURE:
LOCATION:

DESCRIPTION:
UNITS:

DATE SAMPLED:

MS-S0014-1 NA	MS-S0015-1 NA	MS-S0016-1 NA
LOC. 14	LOC. 15	LOC. 16
MG/KG	MG/KG	MG/KG
06/03/88	06/03/88	06/03/88

*** GEOCHEMICAL PARAMETERS ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302187

AR302187

APPENDIX E.6.0
SURFACE SOIL SAMPLES

AR302188

AR302188

MW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
X MOISURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-SR001-1
CM950
SR 1
6
OFFSITE
UG/KG
06/07/88

MS-SR002-1
CM951
SR 2
17
OFFSITE
UG/KG
06/07/88

MS-SR003-1
CM953
SR 3
16
OFFSITE
UG/KG
06/07/88

MS-SR004-1
CM956
SR 4
7
UG/KG
06/07/88

MS-SR005-1
CM957
SR 5
11
UG/KG
06/07/88

MS-SR006-1
CM958
SR 6
13
UG/KG
06/07/88

*** VOLATILES ***

FF CAS NO COMPOUND

67-64-1 ACETONE
78-93-3 2-BUTANONE
95-47-6 TOTAL XYLENES
150 79-34-5 1,1,2,2-TETRACHLOROETHANE
140 79-00-5 1,1,2-TRICHLOROETHANE
850 127-18-4 TETRACHLOROETHENE
870 79-01-6 TRICHLOROETHENE
300 156-60-5 TRANS-1,2-DICHLOROETHENE
230 67-66-3 CHLOROFORM
440 75-09-2 METHYLENE CHLORIDE

R 21
ND
ND
ND
ND
ND
ND
ND
ND
ND
R 1
R 7

R 24
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
R 30

R 21
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
R 28

R 23
ND
ND
ND
ND
ND
ND
ND
ND
ND
ND
R 8

R 36
ND
ND
ND
ND
J 3
65
J 5
7
ND
ND
R 8

R 26
ND
ND
ND
ND
ND
10
130
ND
ND
ND
R 5

R 27
ND
ND
ND
ND
ND
8
190
J 2
J 2
R 1
R 16

NOTES :

R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
L = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NK = NOT REPORTED

AR302189

AR302189

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:	MS-SR001-1	MS-SR002-1	MS-SR003-1	MS-SR004-1	MS-SR005-1	MS-SR006-1
TRAFFIC REPORT NUMBER:	CH950	CH951	CH952	CH953	CH954	CH955
LOCATION:	SR 1	SR 2	SR 2	SR 3	SR 4	SR 5
X MOISTURE:	6	17	17	16	7	13
DESCRIPTION:	OFFSITE	OFFSITE	DUPLICATE	OFFSITE		
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
DATE SAMPLED:	06/07/88	06/07/88	06/07/88	06/07/88	06/07/88	06/07/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND	MS-SR001-1	MS-SR002-1	MS-SR003-1	MS-SR004-1	MS-SR005-1	MS-SR006-1
668	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	R 230	2400	R 190	190000	450000	190000
698	117-84-0	DI-N-OCTYL PHTHALATE	ND	J 43	ND	31000	81000	23000
688	84-74-2	DI-N-BOUYL PHTHALATE	ND	R 74	ND	ND	R 780	480
718	131-11-3	DIMETHYL PHTHALATE	ND	ND	ND	J 130	ND	J 270
788	120-12-7	ANTHRACENE	ND	ND	ND	J 110	ND	ND
748	218-01-9	CHRYSENE	ND	ND	ND	ND	ND	380
558	91-20-3	NAFTHALENE	ND	ND	ND	J 140	ND	J 190
918	91-57-6	2-METHYLNAPHTHALENE	ND	ND	ND	J 82	ND	J 130
918	85-01-8	PHENANTHRENE	ND	ND	ND	ND	J 250	470
658	85-85-0	BENZOIC ACID	ND	ND	ND	ND	ND	J 1300
548	78-59-1	150PHORONE	R 190	R 220	R 220	R 180	ND	R 220

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
L = APPROXIMATE VALUE
A = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302190

AR302190

AR302191

NW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-SR001-1	MS-SR002-1A	MS-SR003-1	MS-SR004-1	MS-SR005-1	MS-SR006-1
CN950	CN951	CN953	CN956	CN957	CN958
SR 1	SR 2	SR 3	SR 4	SR 5	SR 6
6	17	16	7	11	13
OFFSITE	OFFSITE	OFFSITE			
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
06/07/88	06/07/88	06/07/88	06/07/88	06/07/88	06/07/88

*** FESTIVITIES ***

FF	CAS NO	COMPOUND
101P	1024-57-3	HEPTACHLOR EPOXIDE
102P	50-29-3	4,4'-DDE
106P	53469-21-9	ARACHIDYL-1242
	12672-29	ARACHIDYL-1248
107P	11097-69-1	ARACHIDYL-1254
		TOXIN

[illegible]

NOTES :

B	=	DATA REJECTED - ANALYTE FOUND IN THE BLANK
J	=	APPROXIMATE VALUE
[J]	=	APPROXIMATE VALUE
K	=	APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L	=	APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND	=	NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302192

AR302192

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-SR001-1
MCH950
SR 1
3.8
OFFSITE
MG/KG
06/07/88

MS-SR002-1
MCH951
SR 2
17.2
OFFSITE
MG/KG
06/07/88

MS-SR002-1A
MCH952
SR 2
16.7
DUPLICATE
MG/KG
06/07/88

MS-SR003-1
MCH953
SR 4
15.5
OFFSITE
MG/KG
06/07/88

MS-SR004-1
MCH956
SR 4
5.0
MG/KG
06/07/88

MS-SR005-1
MCH957
SR 5
5.6
MG/KG
06/07/88

MS-SR006-1
MCH958
SR 6
5.8
MG/KG
06/07/88

*** INORGANICS ***

FF	CAS NO	COMPOUND
1		ALUMINUM
2		ANTIMONY
3		ARSENIC
4		BARIUM
5		BERYLLIUM
6		CADMIUM
7		CALCIUM
8		CHROMIUM
9		CORALIT
10		COFFER
11		IRON
12		LEAD
13		MAGNESIUM
14		MANGANESE
15		MERCURY
16		NICKEL
17		POTASSIUM
18		SELENIUM
19		SILVER
23		UNANIUM
24		ZINC
25		CYANIDE

1	5580	11400	11000	4950	5080	2870
2	ND	ND	ND	L [62.1]	L 66.0	L 118
3	L [2.0]	L 4.8	L 4.4	L [1.7]	L [1.3]	L [0.64]
4	K 171	K 106	K 105	K [46.5]	K 53.4	K [41.8]
5	R [0.56]	R [0.74]	R [0.79]	ND	ND	ND
6	ND	ND	ND	ND	K 3.2	K 3.0
7	24800	2630	3280	28400	R 1060	70800
8	L 8.8	L 15.0	L 13.8	L 37.9	L 30.0	L 59.0
9	K [8.3]	K [10.1]	K [10.2]	K [11.3]	K [3.9]	K [2.6]
10	R 10.6	K 28.4	K 29.2	K 62000	K 17100	K 13100
11	12700	21800	20600	22100	12300	11800
12	J 110	28.7	17.3	J 2850	J 2460	J 5740
13	J 3020	J 2820	J 2760	J 6300	J 4470	J 5110
14	446	998	1010	318	292	164
15	ND	ND	ND	ND	0.2	ND
16	K 17.3	K 19.6	K 19.1	K [18.3]	K 12.9	K [8.5]
17	[887]	[1050]	[1010]	[544]	[570]	R [324]
18	ND	ND	ND	ND	ND	ND
19	R [0.93]	R [2.0]	R [1.7]	R [8.6]	R 4.8	R 3.4
23	[9.1]	18.5	17.6	[5.4]	[8.1]	[4.9]
24	K 107	A 54.0	K 55.5	K 211	K 182	K 118
25	ND	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR30219

AR302193

NW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

% MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-SR001-1	MS-SR002-1	MS-SR002-1A	MS-SR003-1	MS-SR004-1	MS-SR005-1	MS-SR005-1
NA	NA	NA	NA	NA	NA	NA
SR 1	SR 2	SR 2	SR 3	SR 4	SR 5	SR 6
6	17	17	16	7	11	13
OFFSITE	OFFSITE	DUPLICATE	OFFSITE			
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
06/07/88	06/07/88	06/07/88	06/07/88	06/07/88	06/07/88	06/07/88

*** GEOCHEMICAL PARAMETERS ***

PF CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302194

AR302194

MW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER: MS-SR007-1 MS-SR008-1 MS-SR009-1 MS-SR010-1 MS-SR011-1 MS-SR012-1 MS-SR013-1
 TRAFFIC REFURT NUMER: CM961 CM962 CM963 CM965 CM966 CM967 CM968
 LOCATION: SR 7 SR 8 SR 9 SR 10 SR 11 SR 12 SR 13
 % MOISTURE: 16 14 20 25 18 20 17
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 06/07/88 06/07/88 06/07/88 06/08/88 06/08/88 06/08/88 06/08/88
 DATE SAMPLED: 06/07/88 06/07/88 06/07/88 06/08/88 06/08/88 06/08/88 06/08/88

*** VOLATILES ***

FP CAS NO COMPOUND

67-64-1 ACETONE
 78-93-3 2-UTANONE
 95-47-6 TOTAL XYLENES
 150 79-34-5 1,1,2,2-TETRACHLOROETHANE
 140 79-00-5 1,1,2-TRICHLOROETHANE
 850 127-18-4 TETRACHLOROTHEME
 870 79-01-6 TRICHLOROETHENE
 300 156-60-5 TRANS-1,2-DICHLOROETHENE
 230 67-66-3 CHLOROFORM
 440 75-09-2 METHYLENE CHLORIDE

ND ND R 76 R 63 ND ND R 84 ND ND R 7
 ND ND ND ND ND ND ND ND ND ND
 J 42 ND ND ND ND J 33 ND ND ND ND
 ND ND ND ND ND ND ND ND ND ND
 2800 170 12000 J 69 2900 J 16000 R 3
 59000 J 21000 5900 J 120 130 ND ND ND ND
 ND J 10000 170 ND ND ND ND ND ND
 ND J 64 ND ND R 110 ND R 15
 R 230 ND ND ND ND ND ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 (J) = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302195

AR302195

HW MANUFACTURING SITE SURFACE SOIL SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-SR007-1 MS-SR008-1 MS-SR009-1 MS-SR010-1 MS-SR011-1 MS-SR012-1 MS-SR013-1
 CH961 CH962 CH963 CH965 CH966 CH967 MC968
 SR 7 SR 8 SR 9 SR 10 SR 11 SR 12 SR 13
 16 14 20 25 18 20 17
 UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 06/07/88 06/07/88 06/07/88 06/08/88 06/08/88 06/08/88 06/08/88

*** BASE/NEUTRALS ***

FP CAS NO COMPOUND

568 117-81-7 BIS(2-ETHYLHEXYL)PHTHALATE
 598 117-84-0 DI-N-OCTYL PHTHALATE
 588 84-74-2 DI-N-BUTYL PHTHALATE
 718 131-11-3 DIMETHYL PHTHALATE
 788 120-12-7 ANTHRACENE
 768 218-01-9 CHRYSENE
 558 91-20-3 NAPHTHALENE
 01-57-6 2-METHYLNAPHTHALENE
 818 85-01-8 PHENANTHRENE
 65-85-0 BENZOIC ACID
 548 78-59-1 ISOPHTHORENE

180000 3800000 2200000 1400000 890000 1300000 1200000
 4200 140000 56000 22000 44000 57000 NR
 NR NR NR NR NR NR NR
 NR NR NR NR NR NR NR
 NR NR NR NR NR NR NR
 NR NR NR NR NR NR NR
 NR NR NR NR NR NR NR
 NR NR NR NR NR NR NR
 NR NR NR NR NR NR NR

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 A = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302196

AR302196

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-SR007-1 CN961 SR 7 16	MS-SR008-1 CN962 SR 8 14	MS-SR009-1 CN963 SR 9 20	MS-SR010-1 CN965 SR 10 25	MS-SR011-1 CN966 SR 11 18	MS-SR012-1 CN967 SR 12 20	MS-SR013-1 CN968 SR 13 17
UG/KG 06/07/88	UG/KG 06/07/88	UG/KG 06/07/88	UG/KG 06/08/88	UG/KG 06/08/88	UG/KG 06/08/88	UG/KG 06/08/88

*** ACIDS ***

FP CAS NO COMPOUND

65A	108-95-2	PHENOL	ND	ND	ND	ND	ND
34A	106-44-5	4-METHYLPHENOL	ND	ND	ND	ND	ND
31A	105-67-9	2,4-DIMETHYLPHENOL	ND	ND	ND	ND	ND
21A	120-33-2	2,4-DICHLOROPHENOL	ND	ND	ND	ND	ND
22A	88-06-2	2,4,6-TRICHLOROPHENOL	ND	ND	ND	ND	ND
	59-50-7	4-CHLORO-3-METHYLPHENOL	ND	ND	ND	ND	ND

NOTES :
R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302197

AR302197

NW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-SR007-1 MS-SR008-1 MS-SR009-1 MS-SR010-1 MS-SR011-1 MS-SR012-1 MS-SR013-1
 CH961 CH962 CH963 CH965 CH966 CH967 CH968
 SR 7 SR 8 SR 9 SR 10 SR 11 SR 12 SR 13
 16 14 20 25 18 20 17
 UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 06/07/88 06/07/88 06/07/88 06/08/88 06/08/88 06/08/88 06/08/88

*** PESTICIDES ***

FP CAS NO COMPOUND
 101P 1024-57-3 HEPTACHLOR EPOXIDE
 92P 50-29-3 4,4'-DDT
 106P 53469-21-9 AROCHLOR-1242
 12672-29 AROCHLOR-1248
 107P 11097-69-1 AROCHLOR-1254
 DIOXIN

ND ND ND ND ND ND ND
 ND ND ND ND ND ND ND
 J 210 J 920 J 430 J 370 J 390 J 220
 ND ND ND ND ND ND ND
 J 61 J 72 J 74 J 290 J 220
 ND ND ND ND ND ND ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK

J = APPROXIMATE VALUE

LJ = APPROXIMATE VALUE

N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH

L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW

ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302198

AR302198

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

% MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-SR007-1
MCH961

SR 7

18.2

MG/KG

06/07/88

MS-SR008-1
MCH962

SR 8

22.1

MG/KG

06/07/88

MS-SR009-1
MCH963

SR 9

17.0

MG/KG

06/07/88

MS-SR010-1
MCH965

SR 10

13.8

MG/KG

06/08/88

MS-SR011-1
MCH966

SR 11

17.1

MG/KG

06/08/88

MS-SR012-1
MCH967

SR 12

20.5

MG/KG

06/08/88

MS-SR013-1
MCH968

SR 13

21.7

MG/KG

06/08/88

*** INORGANICS ***

PP CAS NO COMPOUND

1		ALUMINUM	14000	8860	8430	10300	8310	9500	13400
2		ANTIMONY	R [8.7]	87.6	R [17.0]	ND	ND	ND	ND
3		ARSENIC	L 8.8	L 4.7	L 5.7	L 4.8	L 9.9	L 6.3	6.8
4		BARIUM	94.7	87.7	[63.4]	68.7	[78.2]	66.3	J 95.2
5		BERYLLIUM	R [0.86]	R [0.48]	R [0.79]	R [0.7]	ND	R [0.76]	R [0.78]
6		CADMIUM	1.2	11.9	5.6	2.0	ND	3.4	1.4
7		CALCIUM	R 1390	7310	[2780]	R [836]	7200	62700	R [1220]
8		CHROMIUM	73.5	73.7	24.5	16.6	21.8	22.0	19.2
9		CORAL	[7.4]	[7.5]	[9.6]	[5.5]	[12.3]	[10.4]	[10.2]
10		COOPER	929	13200	25600	1880	107000	11700	945
11		IRON	24500	17800	21500	21600	33600	21500	28500
12		LEAD	1270	9770	1510	259	703	831	J 78.2
13		MAGNESIUM	2420	2810	2850	3630	[3480]	5450	2580
14		MANGANESE	393	200	419	165	547	533	555
15		MERCURY	ND	ND	ND	ND	ND	0.1	ND
16		NICKEL	11.8	19.9	20.0	18.1	[40.2]	21.4	15.3
17		POTASSIUM	[1100]	[710]	[596]	[748]	[635]	[808]	1530
18		SELENIUM	ND	L [0.39]	ND	ND	ND	ND	ND
19		SILVER	R [1.3]	R 5.9	R [2.7]	ND	R [5.2]	R [1.2]	R 3.7
23		Vanadium	25.0	13.4	[11.7]	16.0	ND	14.5	26.6
24		ZINC	69.4	449	186	87.4	787	474	J 80.1
25		CYANIDE	ND	ND	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
L = APPROXIMATE VALUE
A = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT RETURNED

AR302199

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:	MS-SR007-1	MS-SR008-1	MS-SR009-1	MS-SR010-1	MS-SR011-1	MS-SR012-1	MS-SR013-1
TRAFFIC REPORT NUMBER:	NA	NA	NA	NA	NA	NA	NA
LOCATION:	SR 7	SR 8	SR 9	SR 10	SR 11	SR 12	SR 13
Z MOISTURE:	16	14	20	25	18	20	17
DESCRIPTION:							
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
DATE SAMPLED:	06/07/88	06/07/88	06/07/88	06/08/88	06/08/88	06/08/88	06/08/88

*** GEOCHEMICAL PARAMETERS ***

FP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302200

AR302200

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

% MOISTURE:

DESCRIPTION:

JUNI 15!

DATE SAMPLED:

*** VOLATILES ***

PF	CAS NO	COMPOUND
1	100-41-3	1,1,1-Trichloroethane
2	75-71-4	1,1,2-Trichloroethane
3	70-133-7	1,1,2,2-Tetrachloroethane
4	79-12-1	1,1,1,2-Tetrachloroethane
5	79-06-6	1,1,2,2-Tetrachloroethane
6	79-07-7	1,1,1,2-Tetrachloroethane
7	79-08-8	1,1,2,2-Tetrachloroethane
8	79-09-9	1,1,1,2-Tetrachloroethane
9	79-10-0	1,1,2,2-Tetrachloroethane
10	79-11-1	1,1,1,2-Tetrachloroethane
11	79-12-2	1,1,2,2-Tetrachloroethane
12	79-13-3	1,1,1,2-Tetrachloroethane
13	79-14-4	1,1,2,2-Tetrachloroethane
14	79-15-5	1,1,1,2-Tetrachloroethane
15	79-16-6	1,1,2,2-Tetrachloroethane
16	79-17-7	1,1,1,2-Tetrachloroethane
17	79-18-8	1,1,2,2-Tetrachloroethane
18	79-19-9	1,1,1,2-Tetrachloroethane
19	79-20-0	1,1,2,2-Tetrachloroethane
20	79-21-1	1,1,1,2-Tetrachloroethane
21	79-22-2	1,1,2,2-Tetrachloroethane
22	79-23-3	1,1,1,2-Tetrachloroethane
23	79-24-4	1,1,2,2-Tetrachloroethane
24	79-25-5	1,1,1,2-Tetrachloroethane
25	79-26-6	1,1,2,2-Tetrachloroethane
26	79-27-7	1,1,1,2-Tetrachloroethane
27	79-28-8	1,1,2,2-Tetrachloroethane
28	79-29-9	1,1,1,2-Tetrachloroethane
29	79-30-0	1,1,2,2-Tetrachloroethane
30	79-31-1	1,1,1,2-Tetrachloroethane
31	79-32-2	1,1,2,2-Tetrachloroethane
32	79-33-3	1,1,1,2-Tetrachloroethane
33	79-34-4	1,1,2,2-Tetrachloroethane
34	79-35-5	1,1,1,2-Tetrachloroethane
35	79-36-6	1,1,2,2-Tetrachloroethane
36	79-37-7	1,1,1,2-Tetrachloroethane
37	79-38-8	1,1,2,2-Tetrachloroethane
38	79-39-9	1,1,1,2-Tetrachloroethane
39	79-40-0	1,1,2,2-Tetrachloroethane
40	79-41-1	1,1,1,2-Tetrachloroethane
41	79-42-2	1,1,2,2-Tetrachloroethane
42	79-43-3	1,1,1,2-Tetrachloroethane
43	79-44-4	1,1,2,2-Tetrachloroethane
44	79-45-5	1,1,1,2-Tetrachloroethane
45	79-46-6	1,1,2,2-Tetrachloroethane
46	79-47-7	1,1,1,2-Tetrachloroethane
47	79-48-8	1,1,2,2-Tetrachloroethane
48	79-49-9	1,1,1,2-Tetrachloroethane
49	79-50-0	1,1,2,2-Tetrachloroethane
50	79-51-1	1,1,1,2-Tetrachloroethane
51	79-52-2	1,1,2,2-Tetrachloroethane
52	79-53-3	1,1,1,2-Tetrachloroethane
53	79-54-4	1,1,2,2-Tetrachloroethane
54	79-55-5	1,1,1,2-Tetrachloroethane
55	79-56-6	1,1,2,2-Tetrachloroethane
56	79-57-7	1,1,1,2-Tetrachloroethane
57	79-58-8	1,1,2,2-Tetrachloroethane
58	79-59-9	1,1,1,2-Tetrachloroethane
59	79-60-0	1,1,2,2-Tetrachloroethane
60	79-61-1	1,1,1,2-Tetrachloroethane
61	79-62-2	1,1,2,2-Tetrachloroethane
62	79-63-3	1,1,1,2-Tetrachloroethane
63	79-64-4	1,1,2,2-Tetrachloroethane
64	79-65-5	1,1,1,2-Tetrachloroethane
65	79-66-6	1,1,2,2-Tetrachloroethane
66	79-67-7	1,1,1,2-Tetrachloroethane
67	79-68-8	1,1,2,2-Tetrachloroethane
68	79-69-9	1,1,1,2-Tetrachloroethane
69	79-70-0	1,1,2,2-Tetrachloroethane
70	79-71-1	1,1,1,2-Tetrachloroethane
71	79-72-2	1,1,2,2-Tetrachloroethane
72	79-73-3	1,1,1,2-Tetrachloroethane
73	79-74-4	1,1,2,2-Tetrachloroethane
74	79-75-5	1,1,1,2-Tetrachloroethane
75	79-76-6	1,1,2,2-Tetrachloroethane
76	79-77-7	1,1,1,2-Tetrachloroethane
77	79-78-8	1,1,2,2-Tetrachloroethane
78	79-79-9	1,1,1,2-Tetrachloroethane
79	79-80-0	1,1,2,2-Tetrachloroethane
80	79-81-1	1,1,1,2-Tetrachloroethane
81	79-82-2	1,1,2,2-Tetrachloroethane
82	79-83-3	1,1,1,2-Tetrachloroethane
83	79-84-4	1,1,2,2-Tetrachloroethane
84	79-85-5	1,1,1,2-Tetrachloroethane
85	79-86-6	1,1,

67-64-1	ACETONE
78-93-3	2-BUTANONE
95-47-6	TOTAL XYLENES
79-34-5	1,1,2,2-TETRACHLOROETHANE
79-00-5	1,1,2-TRICHLOROETHANE
127-18-4	TETRACHLOROETHENE
79-01-6	TRICHLOROETHENE
156-60-5	TRANS-1,2-DICHLOROETHENE
67-66-3	CHLOROFORM
75-09-2	METHYLENE CHLORIDE

J 450
ND
ND
ND
ND
J 54
J 1700
130
ND
ND
R 460

ND
ND
ND
ND
ND
ND
ND
ND
R 26

ND ND ND ND ND R 2
ND ND ND ND R 9

ND ND ND ND ND 240 ND ND ND R 78

ND
ND
ND
ND
330
J 24000
ND
ND
ND
830

R 82
ND
ND
ND
ND
32
ND
ND
ND
R 54

R 96
ND
ND
NI
ND
27
ND
NI
NI
R 48

NOTES :

R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE

J = APPROXIMATE VALUE
[J] = APPROXIMATE VALUE

N = APPROXIMATE VALUE -
 L = APPROXIMATE VALUE

L = APPROXIMATE VALUE
ND = NOT DETECTED

41133439 1500

K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 N = NOT DETECTED

NR = NOT REPORTED
NA = NOT ANALYZED - NR = NOT REPORTED
ND = NOT DETECTED

AR302201

AR302201

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER: MS-SR014-1 MS-SR015-1 MS-SR016-1 MS-SR017-1 MS-SR018-1 MS-SR019-1
 TRAFFIC REPORT NUMBER: CM969 CM970 CM973 CM974 CM975 CM976
 LOCATION: SR 14 SR 15 SR 16 SR 17 SR 18 SR 19
 % MOISTURE: 11 22 11 14 11 31
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88
 DATE SAMPLED: 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND	UG/KG	06/08/88	UG/KG	06/08/88	UG/KG	06/08/88	UG/KG	06/08/88	UG/KG	06/08/88
66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	72000	ND	49000	ND	270000	230000	310000	980000	ND	ND
69B	117-84-0	DI-N-OCTYL PHTHALATE	ND	ND	ND	6000	ND	6900	ND	ND	ND	ND
68B	84-74-2	DI-N-BUTYL PHTHALATE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
71B	131-11-3	DIMETHYL PHTHALATE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
70B	120-12-7	ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
76B	218-01-9	CHRYSENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
55B	91-20-3	NAFTHALENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
91-57-6		2-METHYLNAPHTHALENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
81B	85-01-8	PHENANTHRENE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
65-85-0		BENZOIC ACID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54B	78-59-1	ISOPHORONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 N = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302202

AR302202

MW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER: MS-SR014-1 MS-SR015-1 MS-SR016-1 MS-SR017-1 MS-SR018-1 MS-SR019-1 MS-SR019-1A
 TRAFFIC REPORT NUMBER: CH969 CH970 CH973 CH974 CH975 CH976 CH977
 LOCATION: SR 14 SR 15 SR 16 SR 17 SR 18 SR 19
 % MOISTURE: 11 22 11 14 11 31 15
 DESCRIPTION: UG/KG UG/KG UG/KG UG/KG UG/KG UG/KG
 UNITS: 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88 06/09/88
 DATE SAMPLED: 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88 06/09/88
 DUPLICATE

*** ACIDS ***

PP	CAS NO	COMPUND
65A	108-95-2	PHENOL
	106-44-5	4-METHYLPHENOL
34A	105-67-9	2,4-DIMETHYLPHENOL
31A	120-33-2	2,4-DICHLOROPHENOL
21A	88-06-2	2,4,6-TRICHLOROPHENOL
22A	59-50-7	4-CHLORO-3-METHYLPHENOL

ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302203

AR302203

NW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 X MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-SR014-1	MS-SR015-1	MS-SR016-1	MS-SR017-1	MS-SR018-1	MS-SR019-1	MS-SR019-1A
CH969	CH970	CH973	CH974	CH975	CH976	CH977
SR 14	SR 15	SR 16	SR 17	SR 18	SR 19	SR 19
11	22	11	14	11	31	15
UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	DUPLICATE
06/08/88	06/08/88	06/08/88	06/08/88	06/08/88	06/09/88	06/09/88

*** PESTICIDES ***

PP	CAS NO	COMFOUND
----	--------	----------

101P	1024-57-3	HEPTACHLOR EPOXIDE	ND	ND	ND	ND	ND
92P	50-29-3	4,4'-DUT	ND	ND	ND	ND	ND
106P	53469-21-9	AROCOR-1242	ND	ND	ND	ND	ND
12672-29	AROCOR-1248		ND	ND	ND	290	ND
107P	11097-69-1	AROCOR-1254	ND	ND	ND	ND	ND
		DIOXIN	ND	ND	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302204

AR302204

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER: MS-SR014-1 MS-SR015-1 MS-SR016-1 MS-SR017-1 MS-SR018-1 MS-SR019-1 MS-SR019-1A
 TRAFFIC REPORT NUMBER: MCH969 MCH970 MCH973 MCH974 MCH975 MCH976 MCH977
 LOCATION: SR 14 SR 15 SR 16 SR 17 SR 18 SR 19 SR 19
 % MOISTURE: 9.6 22.6 14.9 12.6 12.7 15.8 15.1
 DESCRIPTION: DUPLICATE
 UNITS: MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG
 DATE SAMPLED: 06/08/88 06/08/88 06/08/88 06/08/88 06/08/88 06/09/88 06/09/88

*** INORGANICS ***

PP	CAS NO	COMPOUND
1		ALUMINUM
2		ANTIMONY
3		ARSENIC
4		BARIUM
5		BERYLLIUM
6		CADMIUM
7		CALCIUM
8		CHROMIUM
9		COBALT
10		COPPER
11		IRON
12		LEAD
13		MAGNESIUM
14		MANGANESE
15		MERCURY
16		NICKEL
17		POTASSIUM
18		SELENIUM
19		SILVER
23		VANADIUM
24		ZINC
25		CYANIDE

1	14200	ND	11400	14500	18000	18500	17000
2	7.6	J 103	3.8	7.3	8.7	ND	R 15.7
3	J 103	J 106	J 93.1	J 55.7	J 107	4.4	4.7
4	R [0.8]	B [0.72]	B [0.57]	R [0.85]	R 1.2	R [0.67]	J 74.6
5	ND	ND	1.2	1.7	ND	3.4	R [0.88]
6	B [0.26]	R 1510	J 8600	J 5870	J 2500	J 3070	4.4
7	18.1	20.9	11.1	25.5	25.0	26.2	J 16700
8	[6.0]	[8.4]	[4.5]	11.5	17.3	15.7	27.2
9	1180	1960	2050	7670	2940	5230	13.5
10	26300	28400	17000	30500	33500	44900	11600
11	J 53.2	J 145	J 31.9	J 493	J 206	J 279	31000
12	2020	3850	1780	2930	3450	8720	J 647
13	459	338	310	251	362	508	7900
14	ND	ND	ND	ND	ND	ND	582
15	17.2	22.1	9.8	28.2	26.8	35.5	ND
16	[1090]	1580	[1070]	[1100]	1350	2090	32.6
17	ND	ND	ND	ND	ND	ND	1560
18	R 2.4	R 2.8	R [1.5]	R 3.6	R 3.1	R 4.7	ND
19	27.7	30.1	19.1	24.0	30.6	24.5	R 4.7
23	J 54.8	J 93.9	J 96.7	J 205	J 144	J 97.8	21.5
24	ND	ND	0.96	ND	ND	ND	J 151
25							ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302205

AR302205

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
 TRAFFIC REPORT NUMBER:
 LOCATION:
 % MOISTURE:
 DESCRIPTION:
 UNITS:
 DATE SAMPLED:

MS-SR014-1	MS-SR015-1	MS-SR016-1	MS-SR017-1	MS-SR018-1	MS-SR019-1	MS-SR019-1A
NA	NA	NA	NA	NA	NA	NA
SR 14	SR 15	SR 16	SR 17	SR 18	SR 19	SR 19
11	22	11	14	11		
MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	DUPLICATE
06/08/88	06/08/88	06/08/88	06/08/88	06/08/88	06/09/88	06/09/88

*** GEOCHEMICAL PARAMETERS ***

PP CAS NO COMPOUND

NO PARAMETERS FOR THIS CATEGORY

AR302206

AR302206

MV MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

% MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED:

MS-SR020-1	MS-SR021-1	MS-SR022-1	MS-SR023-1	MS-SR024-1
CM978	CM979	CM980	CM981	NA
SR 20	SR 21	SR 22	SR 23	SR 24
13	10	5	25	NR
UG/KG	UG/KG	UG/KG	UG/KG	OFFSITE
06/09/88	06/09/88	06/09/88	06/09/88	UG/KG
				06/09/88

*** VOLATILES ***

PP	CAS NO	COMPOUND
----	--------	----------

67-64-1	ACETONE	R 120	B 130	B 75	R 140	NA
78-93-3	2-Butanone	ND	ND	ND	B 19	NA
95-47-6	TOTAL XYLENES	ND	ND	ND	ND	NA
150 79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NA
140 79-00-5	1,1,2-Trichloroethane	ND	ND	ND	ND	NA
850 127-18-4	Tetrachloroethene	170	24	23	26	NA
870 79-01-6	Trichloroethene	ND	ND	ND	ND	NA
300 156-60-5	Trans-1,2-Dichloroethene	ND	ND	ND	17	NA
230 67-66-3	Chloroform	ND	ND	ND	ND	NA
440 75-09-2	Methylene Chloride	R 75	B 84	B 86	B 92	NA

NOTES :
R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
K = APPROXIMATE VALUE
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302207

AR302207

NW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER: MS-SR020-1 MS-SR021-1 MS-SR022-1 MS-SR023-1 MS-SR024-1
 TRAFFIC REPORT NUMBER: CH978 CH979 CH980 CH981
 LOCATION: SR 20 SR 21 SR 22 SR 23 SR 24
 X MOISTURE: 13 10 5 25
 DESCRIPTION: OFFSITE
 UNITS: UG/KG UG/KG UG/KG UG/KG
 DATE SAMPLED: 06/09/88 06/09/88 06/09/88 06/09/88 06/09/88

*** BASE/NEUTRALS ***

PP	CAS NO	COMPOUND			
66B	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	J 10000	J 230000	J 1500000
69B	117-84-0	DI-N-OCTYL PHTHALATE	610	120000	120000
68B	84-74-2	DI-N-BUTYL PHTHALATE	ND	ND	ND
71B	131-11-3	DIMETHYL PHTHALATE	ND	ND	ND
70B	120-12-7	ANTHRACENE	ND	ND	ND
76B	218-01-9	CHRYSENE	ND	ND	ND
55B	91-20-3	NAPHTHALENE	ND	ND	ND
	91-57-6	2-METHYLNAPHTHALENE	ND	ND	ND
81B	85-01-8	PHENANTHRENE	J 100	ND	ND
	65-85-0	BENZOIC ACID	J 430	ND	ND
54B	78-59-1	ISOPHTHORE	ND	ND	ND

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
 J = APPROXIMATE VALUE
 [J] = APPROXIMATE VALUE
 K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
 L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
 ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302208

AR302208

MW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:

TRAFFIC REPORT NUMBER:

LOCATION:

MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED:

***** ACIUS *****

[illegible]

65A	108-95-2	PHENOL
	104-44-5	4-METHYLPHENOL
34A	105-67-9	4-DIMETHYLPHENOL
31A	120-33-2	2,4-DIMETHYLPHENOL
21A	88-06-2	2,4,6-TRICHLOROPHENOL
22A	59-50-7	4-CHLORO-3-METHYLPHENOL

MS-SR020-1	MS-SR021-1	MS-SR022-1	MS-SR023-1	MS-SR024-1
CM978	CM979	CM980	CM981	NA
SR 20	SR 21	SR 22	SR 23	SR 24
13	10	5	25	
UG/KG	UG/KG	UG/KG	UG/KG	OFFSITE
06/09/88	06/09/88	06/09/88	06/09/88	06/09/88
ND	ND	ND	ND	NA
ND	ND	ND	ND	NA
ND	ND	ND	ND	NA
ND	ND	ND	ND	NA
ND	ND	ND	ND	NA

NOTES :

R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302209

AR302209

NW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:
TRAFFIC REPORT
LOCATION:
% MOISTURE:
DESCRIPTION:
UNITS:
DATE SAMPLED:

MS-SR020-1
CH97B
SR 20
13

MS-SR021-1
CH979
SR 21
10

MS-SR022-1
CN980
SR 22
5

MS-SR023-1
CH981
SR 23
25

MS-SK024-1
NA
SK 24

UNITS:

UNITS:
DATE SAMPLED:

UNITS:
DATE SAMPLED:

UG/KG
06/09/

06/09/

04/08
UG/KG

UG/KG

OFFS
UG/KG

*** FESTICIDES ***

PP	CAS NO	CONFIDENTIAL
1	100-00-0	
2	100-00-0	
3	100-00-0	
4	100-00-0	
5	100-00-0	
6	100-00-0	
7	100-00-0	
8	100-00-0	
9	100-00-0	
10	100-00-0	
11	100-00-0	
12	100-00-0	
13	100-00-0	
14	100-00-0	
15	100-00-0	
16	100-00-0	
17	100-00-0	
18	100-00-0	
19	100-00-0	
20	100-00-0	
21	100-00-0	
22	100-00-0	
23	100-00-0	
24	100-00-0	
25	100-00-0	
26	100-00-0	
27	100-00-0	
28	100-00-0	
29	100-00-0	
30	100-00-0	
31	100-00-0	
32	100-00-0	
33	100-00-0	
34	100-00-0	
35	100-00-0	
36	100-00-0	
37	100-00-0	
38	100-00-0	
39	100-00-0	
40	100-00-0	
41	100-00-0	
42	100-00-0	
43	100-00-0	
44	100-00-0	
45	100-00-0	
46	100-00-0	
47	100-00-0	
48	100-00-0	
49	100-00-0	
50	100-00-0	
51	100-00-0	
52	100-00-0	
53	100-00-0	
54	100-00-0	
55	100-00-0	
56	100-00-0	
57	100-00-0	
58	100-00-0	
59	100-00-0	
60	100-00-0	
61	100-00-0	
62	100-00-0	
63	100-00-0	
64	100-00-0	
65	100-00-0	
66	100-00-0	
67	100-00-0	
68	100-00-0	
69	100-00-0	
70	100-00-0	
71	100-00-0	
72	100-00-0	
73	100-00-0	
74	100-00-0	
75	100-00-0	
76	100-00-0	
77	100-00-0	
78	100-00-0	
79	100-00-0	
80	100-00-0	
81	100-00-0	
82	100-00-0	
83	100-00-0	
84	100-00-0	
85	100-00-0	
86	100-00-0	
87	100-00-0	
88	100-00-0	
89	100-00-0	
90	100-00-0	
91	100-00-0	
92	100-00-0	
93	100-00-0	
94	100-00-0	
95	100-00-0	
96	100-00-0	
97	100-00-0	
98	100-00-0	
99	100-00-0	
100	100-00-0	

101F	1024-57-3	HEFTACHLOR EPOXIDE
22P	50-29-3	4,4'-DNT
106F	53469-21-9	AROCFLOR-1242
	12672-29	AROCFLOR-124B
107F	11097-69-1	AROCFLOR-1254
		TIOTOXIN

ND ND ND ND ND ND

11 12 13 14 15 16

UN UN UN UN 370 UN

NI NI NI NI 140 0-1

UN UN UN UN UN UN

AR302210

AR302210

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
CJ = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

SAMPLE NUMBER:
TRAFFIC REPORT NUMBER:

LOCATION:

MOISTURE:

DESCRIPTION:

UNITS:

DATE SAMPLED

*** INORGANICS ***

PP	CAS NO	COMPOUND	15800	14600	2460	12500	NA
1		ALUMINUM	ND	ND	ND	8 32.2	NA
2		ANTIMONY	5.2	8.1	[1.7]	3.9	NA
3		ARSENIC	J 80.9	J 62.7	J 122.4]	J 78.1	NA
4		BARIUM	8 [0.9]	B 10.79]	ND	8 [0.54]	NA
5		BERYLLIUM	ND	3.0	3.0	4.8	NA
6		CADMIUM	B 1470	J 1510	J 102000	J 8680	NA
7		CALCIUM	33.1	21.3	7.1	29.6	NA
8		CHROMIUM	12.6	[10.5]	ND	12.8	NA
9		COBALT	742	4390	2280	6930	NA
10		COPPER	32700	30900	15400	31300	NA
11		IRON	J 1550	J 273	J 180	J 1190	NA
12		LEAD	3440	3450	8280	3640	NA
13		MAGNESIUM	260	346	156	308	NA
14		MANGANESE	ND	ND	ND	0.2	NA
15		MERCURY	27.2	24.7	[11.33	29.8	NA
16		NICKEL	1420	1710	[569]	[1050]	NA
17		POTASSIUM	ND	ND	ND	ND	NA
18		SELENIUM	B 3.4	B 3.6	B 11.9]	B 3.9	NA
19		SILVER	27.2	21.6	[3.8]	20.3	NA
20		VANADIUM	J 76.7	J 452	J 652	J 624	NA
21		ZINC	ND	ND	ND	ND	NA
22		CYANIDE					NA

NOTES : R = DATA REJECTED - ANALYTE FOUND IN THE BLANK
J = APPROXIMATE VALUE
[] = APPROXIMATE VALUE
K = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED HIGH
L = APPROXIMATE VALUE - REPORTED VALUE MAY BE BIASED LOW
ND = NOT DETECTED - NA = NOT ANALYZED - NR = NOT REPORTED

AR302211

AR302211

HW MANUFACTURING SITE - SURFACE SOIL SAMPLES

SAMPLE NUMBER:	MS-SR020-1	MS-SR021-1	MS-SR022-1	MS-SR023-1	MS-SR024-1
TRAFFIC REPORT NUMBER:	NA	NA	NA		NA
LOCATION:	SR 20	SR 21	SR 22		
Z MOISTURE:				SR023	TRIP BLANK
DESCRIPTION:					
UNITS:	MG/KG	MG/KG	MG/KG		MG/L
DATE SAMPLED:	06/09/88	06/09/88	06/09/88	06/09/88	06/09/88

*** GEOCHEMICAL PARAMETERS ***

PP	CAS NO	COMPOUND
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NO PARAMETERS FOR THIS CATEGORY

AR302212

AR302212