Cub

Lumber/ CHE 4/11

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SITE: Kast Metals
ID#: IAD982031813
BREAK: 1.3
OTHER: NID

DATE

SUBJECT Transmittal of Laboratory Data

FROM Charles P. Hensley CPH
Chief, Laboratory Branch, ENSV

TO Kefter

Analyses have been completed for the following activities and the data results are attached.

Activity No.	Description
AKJ4N	Keokuk Steel Casting

Attachments

cc: Data Files

55

30279637
Superfund

EPA Form 1320-6 (Rev. 3-76)

0u00

DATA QUALIFIERS FOR EPA REGION VII

U not detected. For EPA VII lab data U is applied only in conjunction with detection limits. For contract lab data it is applied to contract required limits.

M The value indicated is below the quantitation limit but above the detection limit.

J The value is of unknown quality. Approximate value.

I analysis attempted but no result can be reported.

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING — Site Number:
Location: KEOKUK IOWA — Site Code:

Collected: YR: 85 MO: 4 Day: 17 Time: [illegible] Leader: H. WIELAND

Sample Number: AKJ4N00 | SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Split (circle one): (YES) NO

Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth:_____ Pan #:_____ Aliquots:_____

Samplers: Clark, B
Brown, C

COMMENTS OF FIELD PERSONNEL

Site Description: Arc Furnace Bag house Dust

IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING — Site Number:
Location: KEOKUK IOWA — Site Code:

Collected: YR: 85 MO: 1 Day: 11 Time: 1000 Leader: H. WIELAND

Sample Number: AKJ4N0C2 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: WASTE CASTING SAND Northside

Sample Split (circle one): YES, NO

Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: _____ Pan #: _____ Aliquots: 5

Samplers: Guinn
Cbisk

COMMENTS OF FIELD PERSONNEL

Site Description: Waste Casting Sand piled on-site Northside

IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING — Site Number:
Location: KEOKUK IOWA — Site Code:

Collected: YR: 85 MO: 1 Day: 17 Time: 1330 Leader: H. WIELAND

Sample Number: AKJ4N0C3 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER: Waste Casting Sand Southside

Sample Split (circle one): (YES) NO

Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: _____ Pan #: _____ Aliquots: 5

Samplers: Obrik
Lemmon

COMMENTS OF FIELD PERSONNEL

Site Description: Waste casting Sand piles - Southside

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FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING — Site Number:
Location: KEOKUK IOWA — Site Code:

Collected: YR: 85 MO: 4 Day: 17 Time: 1030 Leader: H. WIELAND

Sample Number: AKJ4N00[illegible] SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Split (circle one): YES NO

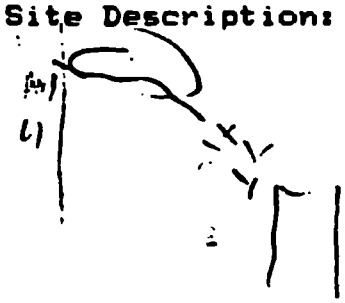
Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: 0-6" Pan #:_____ Aliquots: 5

Samplers: Gawron
Oberle

COMMENTS OF FIELD PERSONNEL

Site Description: Drainage Ditch - NW of waste piles and of Foundry
- sediment below 2" of water



IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING Site Number:
Location: KEOKUK IOWA Site Code:

Collected: YR: 85 MO: 1 Day: 17 Time: 1045 Leader: H. WIELAND

Sample Number: AKJ4NO 005 SMO #:

Sample Media (circle one):
(SOIL) DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Split (circle one): (YES) NO

Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: 0-6 Pan #:_____ Aliquots: 1

Samplers: Obrek
Gunnel

COMMENTS OF FIELD PERSONNEL

Site Description: Runoff Ditch Near of Tanks

IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING Site Number:
Location: KEOKUK IOWA Site Code:

Collected: YR: 85 MO: 1 Day: 17 Time: 1150 Leader: H. WIELAND

Sample Number: AKJ4N0 06 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, (SEDIMENT), WATER, OTHER:_____

Sample Split (circle one): (YES) NO

Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: 0-6" Pan #:_____ Aliquots: 2

Samplers: Obrle
Gannier

COMMENTS OF FIELD PERSONNEL

Site Description: Runoff south of Foundry

S ↓ Foundry

IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING Site Number:
Location: KEOKUK IOWA Site Code:

Collected: YR: 85 MO: 1 Day: 17 Time: 1265 Leader: H. WIELAND

Sample Number: AKJ4N007 SMO #:

Sample Media (circle one):
SOIL, DUST, RINSATE, SEDIMENT, WATER, OTHER:_____

Sample Split (circle one): YES NO

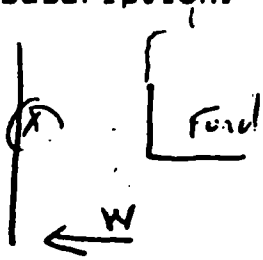
Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: 0-6" Pan #:_____ Aliquots: 1

Samplers: Oberle
Gunnia

COMMENTS OF FIELD PERSONNEL

Site Description: West of Foundry slag property line



IBM-PC

FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Site Name: KEOKUK STEEL CASTING Site Number:
Location: KEOKUK IOWA Site Code:

Collected: YR: 85 MO: 1 Day: 17 Time: 1250 Leader: H. WIELAND

Sample Number: AKJ4N0C8 SMO #:

Sample Media (circle one):
(SOIL) DUST, RINSATE, SEDIMENT, WATER, OTHER: Dupl. Co

Sample Split (circle one): YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
PINT JAR	PURPLE	ICE	ACIDS
8 oz JAR	WHITE	ICE	METALS 1/2/3

Depth: 0-6" Pan #: _____ Aliquots: 1

Samplers: [illegible]
[illegible]

COMMENTS OF FIELD PERSONNEL

Site Description: Corn Field owned by Henry Lock

IBM-PC

ANA 'IS TYPE: METALS (CONTRAC)

ITLE: KEOKUK STEEL - SPMT 2 MATRIX: SEDIMENT UNITS: MG/KG
AB: CHE METHOD: 9001M06 CASE: 3819
AMPLE PREP:_____ ANALYST/ENTRY: L14 REVIEWER. KLS CAF DATE: 03/28/85

SAMPLE NUMBERS

COMPOUND	AKJ4N001		AKJ4N002		AKJ4N003		AKJ4N004	
ALUMINUM	980		1800.		1200.		6900.	
ANTIMONY	30.0	U	30.0	U	30.0	U	30.0	U
ARSENIC	40.0		5.00	U	5.00	U	15.0	
BARIUM	270		120		88.0	B	130	
BERYLLIUM	2.50	U	2.50	U	2.50	U	2.50	U
CADMIUM	31.0		2.50	U	2.50	U	2.50	U
CALCIUM	1800.	M	1500.	M	1200.	M	[illegible]	
CHROMIUM	1200.		21.0		19.0		12.0	
COBALT	11.0	M	25.0	U	25.0	U	25.0	U
COPPER	550		13.0	U	13.0	U	13.0	U
IRON	270000.		12000.		9600.		13000.	
LEAD	4300.		14.0		12.0		14.0	
MAGNESIUM	2500.	U	420	M	310	M	1600.	M
MANGANESE	58000.		140		130		340	
MERCURY	0.1	U	0.1	U	0.1	U	0.1	U
NICKEL	350		20.0	U	20.0	U	20.0	U
POTASSIUM	2500.	U	2500.	U	2500.	U	2500.	U
SELENIUM	2.50	U	2.50	U	2.50	U	2.50	U
SILVER		I		I		I		I
SODIUM	630	M	2500.	U	2500.	U	2500.	U
THALLIUM	5.00	U	5.00	U	5.00	U	5.00	U
TIN	20.0	U	20.0	U	20.0	U	20.0	U
VANADIUM	57.0		65.0		60.0		31.0	
ZINC	2300.		39.0		34.0		38.0	
CYANIDE	0.35	M	0.27	U	0.26	U	0.32	U

ANALYSIS TYPE: METALS (CONTRACT)

TITLE: KEOKUK STEEL - SPMT 2 MATRIX: SEDIMENT UNITS: MG/KG
LAB: CHE METHOD: 9001M06 CASE: 3819
SAMPLE PREP:_____ ANALYST/ENTRY: C14 REVIEWER: GCS CAF DATE: 03/28/85

SAMPLE NUMBERS

COMPOUND	AKJ4N005		AKJ4N006		AKJ4N007		AKJ4N008	
ALUMINUM	11000.		3200.		13000.		4700.	
ANTIMONY	30.0	U	30.0	U	30.0	U	30.0	U
ARSENIC	9.90		5.00	U	45.0		9.90	
BARIUM	230		70.0	M	200		170	
BERYLLIUM	2.50	U	2.50	U	2.50	U	2.50	U
CADMIUM	2.50	U	2.50	U	2.50	U	2.50	U
CALCIUM	3800.		84000.		5100.		5100.	
CHROMIUM	24.0		16.0		16.0		5.00	U
COBALT	25.0	U	25.0	U	25.0	U	25.0	U
COPPER	13.0	U	8.00	M	13.0	U	13.0	U
IRON	18000.		10000.		21000.		9000.	
LEAD	17.0		31.0		18.0		40.0	
MAGNESIUM	3000.		7000.		2700.		1300.	M
MANGANESE	7.50	U	320		460		500	
MERCURY	0.1	U	0.1	U	0.1	U	0.1	U
NICKEL	15.0	M	20.0	U	20.0	U	20.0	U
POTASSIUM	2500.	U	2500.	U	2500.	U	2500.	U
SELENIUM	2.50	U	2.50	U	2.50	U	2.50	U
SILVER		I		I		I		I
SODIUM	2500.	U	2500.	U	2500.	U	2500.	U
THALLIUM	5.00	U	5.00	U	5.00	U	5.00	U
TIN	20.0	U	20.0	U	20.0	U	20.0	U
VANADIUM	39.0		18.0	M	36.0		22.0	M
ZINC	75.0		110		64.0		73.0	
CYANIDE	0.33	U	0.36	U	0.34	U	0.33	U

ANALYSIS TYPE: METALS (CONTRACTOR)

TITLE: KEOKUK STEEL - SPMT 2 | MATRIX: SEDIMENT | UNITS: MG/KG
LAB: CHE | METHOD: 9001M06 | CASE: 3819
SAMPLE PREP:_____ ANALYST/ENTRY: C14 | REVIEWER: _____ | DATE: 03/28/85

SAMPLE NUMBERS

COMPOUND	AKJ4N008D	
ALUMINUM	4600.	
ANTIMONY	30.0	U
ARSENIC	6.10	
BARIUM	210	
BERYLLIUM	2.50	U
CADMIUM	2.50	U
CALCIUM	5500.	
CHROMIUM	5.00	U
COBALT	25.0	U
COPPER	13.0	U
IRON	9900.	
LEAD	93.0	
MAGNESIUM	1400.	M
MANGANESE	660	
MERCURY	0.1	U
NICKEL	20.0	U
POTASSIUM	2500.	U
SELENIUM	2.50	U
SILVER		I
SODIUM	2500.	U
THALLIUM	5.00	U
TIN	20.0	U
VANADIUM	26.0	
ZINC	82.0	
CYANIDE	0.68	M

ANA_.SIS TYPE: SEMIVOLATILES (PAGE 1)

TITLE: KEOKUK STEEL
LAB: WCT
SAMPLE PREP:_____ ANALYST/ENTRY: B78

MATRIX: SEDIMENT
METHOD: 9302M01
REVIEWER: CAF GLS

UNITS: UG/KG
CASE: 3819
DATE: 03/01/85

SAMPLE NUMBERS

COMPOUND	AKJ4N001		AKJ4N002		AKJ4N003		AKJ4N004	
N-NITROSODIMETHYLAMINE	990	U	330	U	330	U	330	U
PHENOL	990	U	2900.	J	2000.	J	330	U
ANILINE	990	U	330	U	330	U	330	U
BIS(2-CHLOROETHYL) ETHER	990	U	330	U	330	U	330	U
2-CHLOROPHENOL	990	U	330	U	330	U	330	U
1,3 DICHLOROBENZENE	990	U	330	U	330	U	330	U
1,4 DICHLOROBENZENE	990	U	330	U	330	U	330	U
BENZYL ALCOHOL	990	U	330	U	330	U	330	U
1,2 DICHLOROBENZENE	990	U	330	U	330	U	330	U
2-METHYLPHENOL	990	U	330	U	330	U	330	U
BIS(2-CHLOROISOPROPYL)ETHER	990	U	330	U	330	U	330	U
4-METHYLPHENOL	990	U	330	U	330	U	330	U
N-NITROSO-DIPROPYLAMINE	990	U	330	U	330	U	330	U
HEXACHLOROETHANE	990	U	330	U	330	U	330	U
NITROBENZENE	990	U	330	U	330	U	330	U
ISOPHORONE	990	U	330	U	330	U	330	U
2-NITROPHENOL	990	U	330	U	330	U	330	U
2,4-DIMETHYLPHENOL	990	U	330	U	330	U	330	U
BENZOIC ACID	4800.	U	1600.	U	1600.	U	1600.	U
BIS(2-CHLOROETHOXY) METHANE	990	U	330	U	330	U	330	U
2,4 DICHLOROPHENOL	990	U	330	U	330	U	330	U
1,2,4-TRICHLOROBENZENE	990	U	330	U	330	U	330	U
NAPHTHALENE	220	M	150	M	490	J	330	U
4-CHLOROANILINE		I		I		I		I
HEXACHLOROBUTADIENE	990	U	330	U	330	U	330	U
4-CHLORO-3-METHYLPHENOL	990	U	330	U	330	U	330	U
2-METHYLNAPHTHALENE	990	U	190	M	140	M	330	U
HEXACHLOROCYCLOPENTADIENE		I		I		I		I
2,4,6-TRICHLOROPHENOL	990	U	330	U	330	U	330	U
2,4,5-TRICHLOROPHENOL	4800.	U	1600.	U	1600.	U	1600.	U
2-CHLORONAPHTHALENE	990	U	330	U	330	U	330	U
2-NITROANILINE	4800.	U	1600.	U	1600.	U	1600.	U
DIMETHYLPHTHALATE	990	U	330	U	330	U	330	U
ACENAPHTHYLENE	990	U	330	U	330	U	330	U
3-NITROANILINE		I		I		I		I
ACENAPHTHENE	990	U	330	U	330	U	330	U
2,4-DINITROPHENOL		I		I		I		I
4-NITROPHENOL	4800.	U	1600.	U	1600.	U	1600.	U
DIBENZOFURAN	990	U	330	U	330	U	330	U
2,4-DINITROTOULENE	990	U	330	U	330	U	330	U

ANALYSIS TYPE: SEMIVOLATILES (PAGE 1)

ITLE: KEOKUK STEEL
AB: WCT
AMPLE PREP:_____ ANALYST/ENTRY: B78

MATRIX: SEDIMENT
METHOD: 9302M01
REVIEWER: EF KS

UNITS: UG/KG
CASE: 3819
DATE: 03/01/85

SAMPLE NUMBERS

COMPOUND	AKJ4N005		AKJ4N006		AKJ4N007		AKJ4N008	
N-NITROSODIMETHYLAMINE	330	U	4000.	U	330	U	330	U
PHENOL	330	U	39000.	J	330	U	330	U
ANILINE	330	U	4000.	U	330	U	330	U
BIS(2-CHLOROETHYL) ETHER	330	U	4000.	U	330	U	330	U
2-CHLOROPHENOL	330	U	4000.	U	330	U	330	U
1,3 DICHLOROBENZENE	330	U	4000.	U	330	U	330	U
1,4 DICHLOROBENZENE	330	U	4000.	U	330	U	330	U
BENZYL ALCOHOL	330	U	4000.	U	330	U	330	U
1,2 DICHLOROBENZENE	330	U	4000.	U	330	U	330	U
2-METHYLPHENOL	330	U	3800.	M	330	U	330	U
BIS(2-CHLOROISOPROPYL)ETHER	330	U	4000.	U	330	U	330	U
4-METHYLPHENOL	330	U	4000.	U	330	U	330	U
N-NITROSO-DIPROPYLAMINE	330	U	4000.	U	330	U	330	U
HEXACHLOROETHANE	330	U	4000.	U	330	U	330	U
NITROBENZENE	330	U	4000.	U	330	U	330	U
ISOPHORONE	330	U	4000.	U	330	U	330	U
2-NITROPHENOL	330	U	4000.	U	330	U	330	U
2,4-DIMETHYLPHENOL	330	U	4000.	U	330	U	330	U
BENZOIC ACID	1600.	U	19000.	U	1600.	U	1600.	U
BIS(2-CHLOROETHOXY) METHANE	330	U	4000.	U	330	U	330	U
2,4 DICHLOROPHENOL	330	U	4000.	U	330	U	330	U
1,2,4-TRICHLOROBENZENE	330	U	4000.	U	330	U	330	U
NAPHTHALENE	330	U	4000.	U	330	U	330	U
4-CHLOROANILINE		I		I		I		I
HEXACHLOROBUTADIENE	330	U	4000.	U	330	U	330	U
4-CHLORO-3-METHYLPHENOL	330	U	4000.	U	330	U	330	U
2-METHYLNAPHTHALENE	330	U	4000.	U	330	U	330	U
HEXACHLOROCYCLOPENTADIENE		I		I		I		I
2,4,6-TRICHLOROPHENOL	330	U	4000.	U	330	U	330	U
2,4,5-TRICHLOROPHENOL	1600.	U	19000.	U	1600.	U	1600.	U
2-CHLORONAPHTHALENE	330	U	4000.	U	330	U	330	U
2-NITROANILINE	1600.	U	19000.	U	1600.	U	1600.	U
DIMETHYLPHTHALATE	330	U	4000.	U	330	U	330	U
ACENAPHTHYLENE	330	U	4000.	U	330	U	330	U
3-NITROANILINE		I		I		I		I
ACENAPHTHENE	330	U	4000.	U	330	U	330	U
2,4-DINITROPHENOL	330	U		I		I	330	U
4-NITROPHENOL	1600.	U	19000.	U	1600.	U	1600.	U
DIBENZOFURAN	330	U	4000.	U	330	U	330	U
2,4-DINITROTOULENE	330	U	4000.	U	330	U	330	U

ANALYSIS TYPE: SEMIVOLATILES (PAGE 1)

TITLE: KEOKUK STEEL
LAB: WCT
SAMPLE PREP:_____ ANALYST/ENTRY: B78

MATRIX: SEDIMENT
METHOD: 9302M01
REVIEWER: SAE GLS

UNITS: UG/KG
CASE: 3819
DATE: 03/01/85

SAMPLE NUMBERS

AKJ4N008D

COMPOUND		
N-NITROSODIMETHYLAMINE	330	U
PHENOL	330	U
ANILINE	330	U
BIS(2-CHLOROETHYL) ETHER	330	U
2-CHLOROPHENOL	330	U
1,3 DICHLOROBENZENE	330	U
1,4 DICHLOROBENZENE	330	U
BENZYL ALCOHOL	330	U
1,2 DICHLOROBENZENE	330	U
2-METHYLPHENOL	330	U
BIS(2-CHLOROISOPROPYL)ETHER	330	U
4-METHYLPHENOL	330	U
N-NITROSO-DIPROPYLAMINE	330	U
HEXACHLOROETHANE	330	U
NITROBENZENE	330	U
ISOPHORONE	330	U
2-NITROPHENOL	330	U
2,4-DIMETHYLPHENOL	330	U
BENZOIC ACID	1600.	U
BIS(2-CHLOROETHOXY) METHANE	330	U
2,4 DICHLOROPHENOL	330	U
1,2,4-TRICHLOROBENZENE	330	U
NAPHTHALENE	330	U
4-CHLOROANILINE		I
HEXACHLOROBUTADIENE	330	U
4-CHLORO-3-METHYLPHENOL	330	U
2-METHYLNAPHTHALENE	330	U
HEXACHLOROCYCLOPENTADIENE		I
2,4,6-TRICHLOROPHENOL	330	U
2,4,5-TRICHLOROPHENOL	1600.	U
2-CHLORONAPHTHALENE	330	U
2-NITROANILINE	1600.	U
DIMETHYLPHTHALATE	330	U
ACENAPHTHYLENE	330	U
3-NITROANILINE		I
ACENAPHTHENE	330	U
2,4-DINITROPHENOL		I
4-NITROPHENOL	1600.	U
DIBENZOFURAN	330	U
2,4-DINITROTOULENE	330	U

ANALYSIS TYPE: SEMIVOLATILES (PAGE 2)

ITLE: KEOKUK STEEL
AB: WCT
AMPLE PREP:_____ ANALYST/ENTRY: B79

MATRIX: SEDIMENT
METHOD: 9302M01
REVIEWER: SAE GCS

UNITS: UG/KG
CASE: 3819
DATE: 03/01/85

SAMPLE NUMBERS

COMPOUND	AKJ4N001		AKJ4N002		AKJ4N003		AKJ4N004	
2,6-DINITROTOLUENE	990	U	330	U	330	U	330	U
DIETHYLPHTHALATE	990	U	330	U	330	U	330	U
4-CHLOROPHENYL PHENYL ETHER	990	U	330	U	330	U	330	U
FLUORENE	990	U	330	U	330	U	330	U
4-NITROANILINE	4800.	U	1600.	U	1600.	U	1600.	U
4,6-DINITRO-2-METHYLPHENOL	4800.	U	1600.	U	1600.	U	1600.	U
N-NITROSODIPHENYLAMINE	990	U	330	U	330	U	330	U
4-BROMOPHENYL PHENYL ETHER	990	U	330	U	330	U	330	U
HEXACHLOROBENZENE	990	U	330	U	330	U	330	U
PENTACHLOROPHENOL	4800.	U	1600.	U	1600.	U	1600.	U
PHENANTHRENE	990	U	330	U	330	U	330	U
ANTHRACENE	990	U	330	U	330	U	330	U
DI-N-BUTYLPHTHALATE	990	U	3200.	J	330	U	330	U
FLUORANTHENE	990	U	52.0	M	330	U	330	U
BENZIDINE		I		I		I		I
PYRENE	990	U	330	U	330	U	330	U
BUTYL BENZYL PHTHALATE	990	U	330	U	330	U	330	U
3,3' DICHLOROBENZIDINE	2000.	U	660	U	660	U	660	U
BENZO(A)ANTHRACENE	990	U	330	U	330	U	330	U
BIS(2-ETHYLHEXYL)PHTHALATE	990	U	330	U	330	U	330	U
CHRYSENE	990	U	330	U	330	U	330	U
DI-N-OCTYL PHTHALATE	990	U	330	U	330	U	330	U
BENZO(B)FLUORANTHENE OR	990	U	330	U	330	U	330	U
~~BENZO(K)FLUORANTHENE~~	~~990~~	~~U~~	~~330~~	~~U~~	~~330~~	~~U~~	~~330~~	~~U~~
BENZO(A)PYRENE	990	U	330	U	330	U	330	U
INDENO(1,2,3-CD)PYRENE	990	U	330	U	330	U	330	U
DIBENZO(A,H)ANTHRACENE	990	U	330	U	330	U	330	U
BENZO(G,H,I)PERYLENE	990	U	330	U	330	U	330	U

ANALYSIS TYPE: SEMIVOLATILES (PAGE 2)

ITLE: KEOKUK STEEL
AB: WCT
AMPLE PREP:_____ ANALYST/ENTRY: B79

MATRIX: SEDIMENT
METHOD: 9302M01
REVIEWER: _____

UNITS: UG/KG
CASE: 3819
DATE: 03/01/85

SAMPLE NUMBERS

COMPOUND	AKJ4N005		AKJ4N006		AKJ4N007		AKJ4N008	
2,6-DINITROTOLUENE	330	U	4000.	U	330	U	330	U
DIETHYLPHTHALATE	330	U	4000.	U	330	U	330	U
4-CHLOROPHENYL PHENYL ETHER	330	U	4000.	U	330	U	330	U
FLUORENE	330	U	4000.	U	330	U	330	U
4-NITROANILINE	1600.	U	19000.	U	1600.	U	1600.	U
4,6-DINITRO-2-METHYLPHENOL	1600.	U	19000.	U	1600.	U	1600.	U
N-NITROSODIPHENYLAMINE	330	U	4000.	U	330	U	330	U
4-BROMOPHENYL PHENYL ETHER	330	U	4000.	U	330	U	330	U
HEXACHLOROBENZENE	330	U	4000.	U	330	U	330	U
PENTACHLOROPHENOL	1600.	U	19000.	U	1600.	U	1600.	U
PHENANTHRENE	330	U	4000.	U	330	U	160	M
ANTHRACENE	330	U	4000.	U	330	U	330	U
DI-N-BUTYLPHTHALATE	330	U	4000.	U	330	U	330	U
FLUORANTHENE	330	U	4000.	U	330	U	160	M
BENZIDINE		I		I		I		I
PYRENE	330	U	4000.	U	330	U	110	M
BUTYL BENZYL PHTHALATE	330	U	4000.	U	330	U	330	U
3,3' DICHLOROBENZIDINE	660	U	8000.	U	660	U	660	U
BENZO(A)ANTHRACENE	330	U	4000.	U	330	U	55.0	M
BIS(2-ETHYLHEXYL)PHTHALATE	330	U	4000.	U	330	U	330	U
CHRYSENE	330	U	4000.	U	330	U	330	U
DI-N-OCTYL PHTHALATE	330	U	4000.	U	330	U	330	U
BENZO(B)FLUORANTHENE OR	330	U	4000.	U	330	U	51.0	M
BENZO(K)FLUORANTHENE	~~330~~	~~U~~	~~4000.~~	~~U~~	~~330~~	~~U~~	~~330~~	~~U~~
BENZO(A)PYRENE	330	U	4000.	U	330	U	330	U
INDENO(1,2,3-CD)PYRENE	330	U	4000.	U	330	U	330	U
DIBENZO(A,H)ANTHRACENE	330	U	4000.	U	330	U	330	U
BENZO(G,H,I)PERYLENE	330	U	4000.	U	330	U	330	U

ANALYSIS TYPE: SEMIVOLATILES (PAGE 2)

ITLE: KEOKUK STEEL
AB: WCT
AMPLE PREP:_____ ANALYST/ENTRY: B79

MATRIX: SEDIMENT
METHOD: 9302M01
REVIEWER: _____

UNITS: UG/KG
CASE: 3819
DATE: 03/01/85

SAMPLE NUMBERS

COMPOUND	AKJ4N008D	
2,6-DINITROTOLUENE	330	U
DIETHYLPHTHALATE	330	U
4-CHLOROPHENYL PHENYL ETHER	330	U
FLUORENE	330	U
4-NITROANILINE	1600.	U
4,6-DINITRO-2-METHYLPHENOL	1600.	U
N-NITROSODIPHENYLAMINE	330	U
4-BROMOPHENYL PHENYL ETHER	330	U
HEXACHLOROBENZENE	330	U
PENTACHLOROPHENOL	1600.	U
PHENANTHRENE	300	M
ANTHRACENE	330	U
DI-N-BUTYLPHTHALATE	330	U
FLUORANTHENE	260	M
BENZIDINE		I
PYRENE	210	M
BUTYL BENZYL PHTHALATE	330	U
3,3' DICHLOROBENZIDINE	660	U
BENZO(A)ANTHRACENE	97.0	M
BIS(2-ETHYLHEXYL)PHTHALATE	330	U
CHRYSENE	250	M
DI-N-OCTYL PHTHALATE	330	U
BENZO(B)FLUORANTHENE OR	100	M
BENZO(K)FLUORANTHENE	~~330~~	~~U~~
BENZO(A)PYRENE	65.0	M
INDENO(1,2,3-CD)PYRENE	330	U
DIBENZO(A,H)ANTHRACENE	330	U
BENZO(G,H,I)PERYLENE	330	U

TITLE: KEOKUK STEEL
MATRIX: SEDIMENT
REVIEWED BY: GCS KCS

ANALYSIS: GC/MS SCAN
UNITS: UG/KG
DATE: 3/5/85 EAF

LAB: WCT
CASE NO: 3819
METHOD NO: 9302M01

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.	COMPOUND NAME **	FRACTION	EST. CONC. *	
AKJ4N001	DIMETHYLSUCCINATE	BNA	20000	J
AKJ4N001	DIMETHYLGLUTARATE	BNA	20000	J
AKJ4N001	DIMETHYLADIPATE	BNA	10000	J
AKJ4N001	1 CMPD FOUND, CAN'T BE ID'ED	BNA		J
AKJ4N002	METHYLNAPHTHALENE	BNA	100	J
AKJ4N002	(PHENYLPROPYL)PYRIDINE	BNA	1000	J
AKJ4N002	14 CMPDS FOUND,CAN'T BE ID'ED	BNA		J
AKJ4N003	SALICYLALDEHYDE	BNA	1000	J
AKJ4N003	DIMETHYLGLUTARATE	BNA	400	J
AKJ4N003	DIMETHYLADIPATE	BNA	200	J
AKJ4N003	(PHENYLPROPYL)PYRIDINE	BNA	1000	J
AKJ4N003	15 CMPDS FOUND,CAN'T BE ID'ED	BNA		J
AKJ4N004	1 CMPD FOUND, CAN'T BE ID'ED	BNA		J
AKJ4N005	PENTACHLOROETHANE	BNA	90	J
AKJ4N005	5 CMPDS FOUND,CAN'T BE ID'ED	BNA		J
AKJ4N006	TRIMETHYLBENZENE	BNA	4000	J
AKJ4N006	10 CMPDS FOUND,CAN'T BE ID'ED	BNA		J
AKJ4N007	NOTHING SIGNIFICANT FOUND			
AKJ4N008	1 CMPD FOUND, CAN'T BE ID'ED	BNA		J
AKJ4N008D	2 CMPDS FOUND,CAN'T BE ID'ED	BNA		J

* THIS IS A CRUDE ESTIMATION BASED ON RESPONSE RELATIVE TO AN INTERNAL STANDARD. AN AUTHENTIC STANDARD HAS NOT BEEN RUN.

** THE COMPOUNDS WERE IDENTIFIED USING A LIBRARY SEARCH ROUTINE. AUTHENTIC STANDARDS HAVE NOT BEEN ANALYZED TO VERIFY COMPOUND MASS SPECTRA AND RETENTION TIMES.