#114323
Site: K42 & West St.
ID #: KS0000900316
Break: 1.5
Other:
3-1-2000

S00114029
SUPERFUND RECORDS

Confidential

Pre-Score Sheets
for
K42 and West Street
Wichita, Kansas

CERCLIS Identification Number
KS0000900316

prepared by
KDHE/BER
March, 2000

HRS DOCUMENTATION RECORD
K42 and West Street - 03/09/100

1. Site Name: K42 and West Street
   (as entered in CERCLIS)

2. Site CERCLIS Number: KS0000900316

3. Site Reviewer: Travis Kogl

4. Date: 3/1/00

5. Site Location: Wichita, Sedgwick, Kansas
   (City/County,State)

6. Congressional District: 1

7. Site Coordinates: Single

   Latitude: 37°39'00.0" Longitude: 097°23'24.0"

	Score
Ground Water Migration Pathway Score (Sgw)	6.24
Surface Water Migration Pathway Score (Ssw)	0.00
Soil Exposure Pathway Score (Ss)	0.00
Air Migration Pathway Score (Sa)	0.00

Site Score	3.12

NOTE

Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

1 WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE. CECO facility

a. Wastestream ID	GW plume
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

Wastestream Constituent Hazardous Substances	Concent.	Units	Liquid	Qualifier
Dichloroethane, 1,1-	6.0E+01	ppb	YES	
Dichloroethylene, 1,1-	9.0E+01	ppb	YES	
Dichloroethylene, cis-1,2-	1.2E+02	ppb	YES	
Trichloroethane, 1,1,1-	2.4E+02	ppb	YES	
Trichloroethylene	3.5E+01	ppb	YES	

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		CECO facility	
b. Source Type		Contaminated Soil	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	100.00	0.00
e. Source Volume/Area Value		4.00E-02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		4.00E-02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Dichloroethane, 1,1-	> 2	NO	3.2E-01	ppm
Dichloroethylene, 1,1-	> 2	NO	7.2E-01	ppm
Dichloroethylene, cis-1,2-	> 2	NO	2.4E+02	ppm
Tetrachloroethylene	> 2	NO	1.1E-01	ppm
Trichloroethylene	> 2	NO	8.4E-01	ppm

Documentation for Source Volume:

100 cubic yards was entered as an arbitrary number. The volume of contaminted soil is unknown.

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Dawson Bros.Plume

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		Dawson Bros.Plume	
b. Source Type		Other	
c. Secondary Source Type		N.A.	
d. Source Vol.(yd3/gal)	Source Area (ft2)	0.00	0.00
e. Source Volume/Area Value		0.00E+00	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)		0.00E+00	
g. Data Complete?		NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)		0.00E+00	
i. Data Complete?		NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)		0.00E+00	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Dichloroethane, 1,1-	< 2	NO	0.0E+00	ppm
Dichloroethylene, 1,1-	< 2	NO	0.0E+00	ppm
Dichloroethylene, cis-1,2-	< 2	NO	0.0E+00	ppm
Trichloroethane, 1,1,1-	< 2	NO	0.0E+00	ppm
Trichloroethylene	< 2	NO	0.0E+00	ppm

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty Value (2k)
1	CECO facility	GW-SW	4.00E-02	0.00E+00	4.00E-02
2	Dawson Bros.Plume	GW-SW-A	0.00E+00	0.00E+00	0.00E+00

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	1.00E+02	10	6
SW: Overland Flow, DW	Tox./Persistence	4.00E+01	10	3
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	2.00E+03	10	10
SW: Overland Flow, Env	Etox./Persis./Bioacc.	2.00E+03	10	10
SW: GW to SW, DW	Tox./Persistence	4.00E+01	10	3
SW: GW to SW, HFC	Tox./Persis./Bioacc.	2.00E+03	10	10
SW: GW to SW, Env	Etox./Persis./Bioacc.	2.00E+03	10	10
Soil Exposure:Resident	Toxicity	1.00E+02	0	0
Soil Exposure: Nearby	Toxicity	0.00E+00	0	0
Air	Toxicity/Mobility	1.00E+02	0	0

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER MIGRATION PATHWAY SCORESHEET
K42 and West Street - 03/09/100

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Arkansas River Alluv		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+02
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	6
Targets		
7. Nearest Well	50	9.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	1.42E+02
8d. Population (lines 8a+8b+8c)	**	1.42E+02
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	1.56E+02
12. Targets (including overlaying aquifers)	**	1.56E+02
13. Aquifer Score	100	6.24
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	6.24

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

NPL Characteristics Data Collection Form
K42 and West Street - 03/09/100

Record Information

1. Site Name: K42 and West Street
(as entered in CERCLIS)

2. Site CERCLIS Number: KS

3. Site Reviewer: Travis Kogl

4. Date: 3/1/00

5. Site Location: Wichita, Sedgwick, Kansas
(City/County,State)

6. Congressional District: 1

7. Site Coordinates: Single

Latitude: 37°39'00.0" Longitude: 097°23'24.0"

Site Description

1. Setting: Urban

2. Current Owner: Private - Industrial

3. Current Site Status: Active

4. Years of Operation: Active Site , from and to dates: 1955-present

5. How Initially Identified: Other - ESA of adjacent property

6. Entity Responsible for Waste Generation:

- Manufacturing
- Other Manufacturing

7. Site Activities/Waste Deposition:

- Tanks - Below Ground

Waste Description

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Solvents

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- -Very Small Quantity Generator

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 2204.0

14. Residential Population Within 4 Miles: 103452.0

Water Use Information

15. Local Drinking Water Supply Source:

- Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 29889.0

17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:

- Municipal (Services over 25 People)
- Private

18. Surface Water Adjacent to/Draining Site:

- Other - Wichita-Valley Center Floodway

GROUND WATER MIGRATION PATHWAY SCORESHEET
K42 and West Street - 03/09/100

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Arkansas River Alluv		
1. Observed Release	550	550
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	430
3. Likelihood of Release	550	550
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+02
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	6
Targets		
7. Nearest Well	50	9.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	1.42E+02
8d. Population (lines 8a+8b+8c)	**	1.42E+02
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	1.56E+02
12. Targets (including overlaying aquifers)	**	1.56E+02
13. Aquifer Score	100	6.24
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	6.24

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER PATHWAY AQUIFER SUMMARY
K42 and West Street - 03/09/100

No.	Aquifer ID	Type	Overlaying No.	Inter-Connected with	Likelihood of Release	Targets
1	Arkansas River Alluv	Non K	0	0	550	1.56E+02

Containment

No.	Source ID	HWQ Value	Containment Value
1	CECO facility	4.00E-02	10
2	Dawson Bros.Plume	0.00E+00	10

==========
Containment Factor 10

Documentation for Ground Water Containment, Source CECO facility:

A containment factor of 10 was chosen because analytical data shows that ground water has been impacted.

Net Precipitation

Net Precipitation (inches) N.A.

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Arkansas River Alluvium AQUIFER
K42 and West Street - 03/09/100

Aquifer: Arkansas River Alluvium

Type of Aquifer: Non Karst

Overlaying Aquifer: 0

Interconnected with: 0

Documentation for Arkansas River Alluvium Aquifer:

The site is situated upon alluvial and terrace deposits of the Arkansas River. The deposits are composed of fine to coarse sand and gravel grading upward into silty sand. The saturated thickness of the aquifer is estimated to be about 60 feet.
Ground water occurs at about 11 feet below surface level. The alluvial deposits are underlain by the Wellington Shale FOrmation of the Permian system. The Wellington Formation is considered the lower confining unit in the area. No water is
produced from the Wellington in the site vicinity.

OBSERVED RELEASE

No.	Well ID	Well Type	Distance (miles)	Level of Contamination
1	CECO MW103	Monitoring Well	0.000	Level I
2	Geoprobe P5	Monitoring Well	0.320	Level I

Well No.	Hazardous Substance	Concent.	MCL	Cancer	RFD	Units
1	Dichloroethane, 1,1-	6.0E+01	0.0E+00	0.0E+00	3.7E+03	ppb
1	Dichloroethylene, 1,1-	9.0E+01	7.0E+00	1.4E-01	3.3E+02	ppb
1	Dichloroethylene, cis-1,2-	0.0E+00	7.0E+01	0.0E+00	3.7E+02	ppb
1	Trichloroethane, 1,1,1-	2.4E+02	2.0E+02	0.0E+00	0.0E+00	ppb
1	Trichloroethylene	3.5E+01	5.0E+00	7.7E+00	0.0E+00	ppb
2	Dichloroethane, 1,1-	3.6E+00	0.0E+00	0.0E+00	3.7E+03	ppb
2	Dichloroethylene, 1,1-	6.0E-01	7.0E+00	1.4E-01	3.3E+02	ppb
2	Dichloroethylene, cis-1,2-	1.2E+02	7.0E+01	0.0E+00	3.7E+02	ppb
2	Trichloroethylene	7.6E+00	5.0E+00	7.7E+00	0.0E+00	ppb

==========

Observed Release Factor 550

GROUND WATER PATHWAY LIKELIHOOD OF RELEASE Arkansas River Alluvium AQUIFER
K42 and West Street - 03/09/100

POTENTIAL TO RELEASE

Containment

Containment Factor	10	

Net Precipitation

Net Precipitation Factor	3	

Depth to Aquifer

A. Depth of Hazardous Substances	11.00	feet
B. Depth to Aquifer from Surface	11.00	feet
C. Depth to Aquifer (B - A)	0.00	feet
Depth to Aquifer Factor	5	

Travel Time

Are All Layers Karst?	NO	
Thickness of Layer(s) with Lowest Conductivity	55.00	feet
Hydraulic Conductivity (cm/sec)	1.0E-04	
Travel Time Factor	35	

==========

Potential to Release Factor 430

GROUND WATER PATHWAY WASTE CHARACTERISTICS
K42 and West Street - 03/09/100

Source: 1 CECO facility

Source Hazardous Waste Quantity Value: 0.04

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Dichloroethane, 1,1-	10	1.00E+00	1.00E+01
Dichloroethylene, 1,1-	100	1.00E+00	1.00E+02
Dichloroethylene, cis-1,2-	100	1.00E+00	1.00E+02
Tetrachloroethylene	100	1.00E+00	1.00E+02
Trichloroethane, 1,1,1-	1	1.00E+00	1.00E+00
Trichloroethylene	10	1.00E+00	1.00E+01

GROUND WATER PATHWAY WASTE CHARACTERISTICS
K42 and West Street - 03/09/100

Source: 2 Dawson Bros.Plume

Source Hazardous Waste Quantity Value: 0.00

Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
Dichloroethane, 1,1-	10	1.00E+00	1.00E+01
Dichloroethylene, 1,1-	100	1.00E+00	1.00E+02
Dichloroethylene, cis-1,2-	100	1.00E+00	1.00E+02
Trichloroethane, 1,1,1-	1	1.00E+00	1.00E+00
Trichloroethylene	10	1.00E+00	1.00E+01

GROUND WATER PATHWAY WASTE CHARACTERISTICS
K42 and West Street - 03/09/100

Hazardous Substances Found in an Observed Release

Well No.	Observed Release Hazardous Substance	Toxicity Value	Mobility Value	Toxicity/ Mobility Value
1	Dichloroethane, 1,1-	10	1.00E+00	1.00E+01
1	Dichloroethylene, 1,1-	100	1.00E+00	1.00E+02
1	Dichloroethylene, cis-1,2-	100	1.00E+00	1.00E+02
1	Trichloroethane, 1,1,1-	1	1.00E+00	1.00E+00
1	Trichloroethylene	10	1.00E+00	1.00E+01
2	Dichloroethane, 1,1-	10	1.00E+00	1.00E+01
2	Dichloroethylene, 1,1-	100	1.00E+00	1.00E+02
2	Dichloroethylene, cis-1,2-	100	1.00E+00	1.00E+02
2	Trichloroethylene	10	1.00E+00	1.00E+01

GROUND WATER PATHWAY WASTE CHARACTERISTICS
K42 and West Street - 03/09/100

Toxicity/Mobility Value from Source Hazardous Substances:	1.00E+02
Toxicity/Mobility Value from Observed Release Hazardous Substances:	1.00E+02
Toxicity/Mobility Factor:	1.00E+02
Sum of Source Hazardous Waste Quantity Values:	4.00E-02
Hazardous Waste Quantity Factor:	10
Waste Characteristics Factor Category:	6

GROUND WATER PATHWAY TARGETS FOR AQUIFER Arkansas River Alluvium
K42 and West Street - 03/09/100

Population by Well

No.	Well ID	Sample Type	Distance (miles)	Level of Contamination	Population

- N/A and/or data not specified

Level I Population Factor: 0.00

Level II Population Factor: 0.00

GROUND WATER PATHWAY TARGETS FOR AQUIFER Arkansas River Alluvium
K42 and West Street - 03/09/100

Potential Contamination by Distance Category

Distance Category (miles)	Population	Value
> 0 to 1/4	0.0	0.00E+00
> 1/4 to 1/2	0.0	0.00E+00
> 1/2 to 1	53.0	1.70E+00
> 1 to 2	192.0	3.00E+00
> 2 to 3	513.0	6.80E+00
> 3 to 4	29131.0	1.31E+02

Potential Contamination Factor: 142.000

Documentation for Target Population > 3 to 4 miles Distance Category:

28,001 persons have been allocated to 16 of Wichita's PWS wells that are located in the 3-4 TDL from the site. Water well records indicate that 775 domestic wells are located within four miles of the site.

Nearest Well

Level of Contamination: Potential
Distance in miles: 1.00

Nearest Well Factor: 9.00E+00

Resources

Resource Use: YES

Resource Factor: 5.00E+00

Wellhead Protection Area

No wellhead protection area

Wellhead Protection Area Factor: 0.00E+00

REFERENCES

K42 and West Street - 03/09/100