

SIRR Report for

Unassigned Uncontrolled Sites

SIRR ID

O95-0001

Site Name

KNAPPER OIL, FOREST CITY

City Location Forest City

Site Type

Property Audit

County

Winnebago

SITE INFORMATION

Property Owner

Doug Knapper

Mailing Address

P. O. Box 247

106 Hwy. 69 North Forest City, IA 50438

Phone: 1-641-585-3706

Location/Legal

SW 1/4 of NE 1/4 of Sec. 35, T98 N, R24 W

Description

Size Of Property

15,000**⊈**q. ft.

Report Prepared By Heartland Environmental Services, Inc.

Date Report Submitted 08/20/2002

Report Submitted By Doug Knapper

Current Usage

Screening Activity

Storage

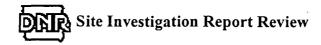
REPORT INFORMATION SUMMARY

I. Summarize the data submitted (no., type, depth of soil borings, surface samples, ground water samples, other sampling conducted, analyses performed, contamination identified, etc.)

Four borings were completed at locations suspected to be near historic petroleum-related operations with the aid of 1988 aerial photographs which depicted the subject property and the location of historic above-ground storage tanks. Soil samples were collected at 1- foot intervals for visual observation and field screened with photoionization detector. Samples exhibiting high screening values were set aside for possible laboratory analyses. Groundwater sample was collected from a boring placed northwest of location of former ASTs. Petroleum compounds were detected in soil and groundwater samples from the boring at the northwest corner of former ASTs.

II. Summarize the site history (past usages, known or suspected contamination pathways such as tanks, S.W. burial, septic tank/tile field, lagoon, land application, etc.)

Thie history of the site was provided by Doug Knapper, the responsible party. Prior to 1969, the property was owned by the Chicago Rock Island Railroad. It was used in their general operation as a storage and repair facility, including petroleum storage. From 1969 to 1972, Mr. Irv Sierp owned the property. He sold it to Calvin Peterson who owned it until 1986. The Doug Knapper family has owned it since 1986. All petroleum tanks were reportedly removed in 1991. Only ASTs were used on the property.



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The property has a building which is in a state of disrepair and is used for some storage. The city has zoned the area as "residential multi-family optional".

III. Summarize the other relevant information (include what may have been learned or known from sources other than the report itself, such as DNR files)

Waldorf College, Forest City, is interested in purchasing the property.

REVIEW SUMMARY

Contaminant Type Petroleum

I. Summarize your findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values known criteria such as water quality standards, MCLs, established cleanup levels, background or any other relevant or useful benchmarks used to determine the site's priority.

Benzene, toluene, ethylbenzene and xylenes, TEH as diesel and waste oil were detected in soil in one borehole near the former AST location. Benzene level in soil was 1.73 mg/kg, which exceeded TIER 1 level for benzene for soil leaching to groundwater (0.54 mg/kg) and soil vapor to enclosed space (1.16 mg/kg). It is was just below the soil to plastic water line level of 1.8 mg/kg (IAC Cha;ter 135). The BTEX values are all below LRP statewide standards of 73, 16,000, 7,800 and 160,000 mg/kg, respectively (IAC Chapter 137). It should be noted that TIER 1 and LRP standards are not calculated for identical pathways.

The same contaminants detected in soil were also detected in groundwater in the boring. Benzene was detected at 49.3 ug/L compared to TIER 1 and Land Recycling Program statewide standard of 5 ug/L. TEH-diesel value of 2,970 ug/L exceeded TIER 1 LUST Standard of 1,200 ug/L for groundwater ingestion pathway. The LRP does not have a standard for diesel.

II. Summarize the potential or actual impacts of the contamination. What is known about the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there wells in the area that could be potentially impacted? Are there identified contaminant pathways such as water or sewer lines, drain tiles, or fissures? Identify any other use/location issues that deserve consideration in any priority assignment.

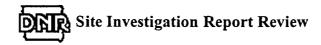
There are three residences close to the property. Information from Doug Knapper stated that one residence is 127 feet from property line. The second home is 160 feet and a third is 205 feet away. Other residences are farther away.

The facility and all adjoining properties are provided drinking water by the Forest City Public Water Supply. Three drinking water wells are located at least 0.5 mile northeast of the site. The wells are about 300 feet deep. No plastic water lines are located within 200 feet of the site.

The Winnebago River flows approximately 3,000 feet north and east of the of the site. There are no other creeks or rivers within many miles of the facility.

III. Summarize any other information, knowledge, or reasoning used in determining your recommendation regarding the priority assigned to this site.

Although benzene level in ground water exceeded the MCL and the diesel concentration exceeded the TIER 1 LUST level, there are no nearby receptors. Water supply to the facility, nearby residents and the rest of the Forest City residents are supplied from municipal water. The municipal water supply is from fairly deep wells (>300 feet) located approximately 0.6 miles from the site. The overburden is composed mainly of silty clay from glacial till, approximately 147 feet thick. This would impede downward movement of contaminants. Other private drinking water wells are at least 0.5 miles from the site.



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No further action is recommended under CERCLA and state authority.

PRIORITY LEVEL

Priority Level

3-4

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PROGRAM AUTHORITY REFERRAL

Program Authority Referral No Further Action

Other Referral

ISS/Form Completed By

Lambert A. Nnadi

Date ISS Completed

11/05/2002

ESS Completed By

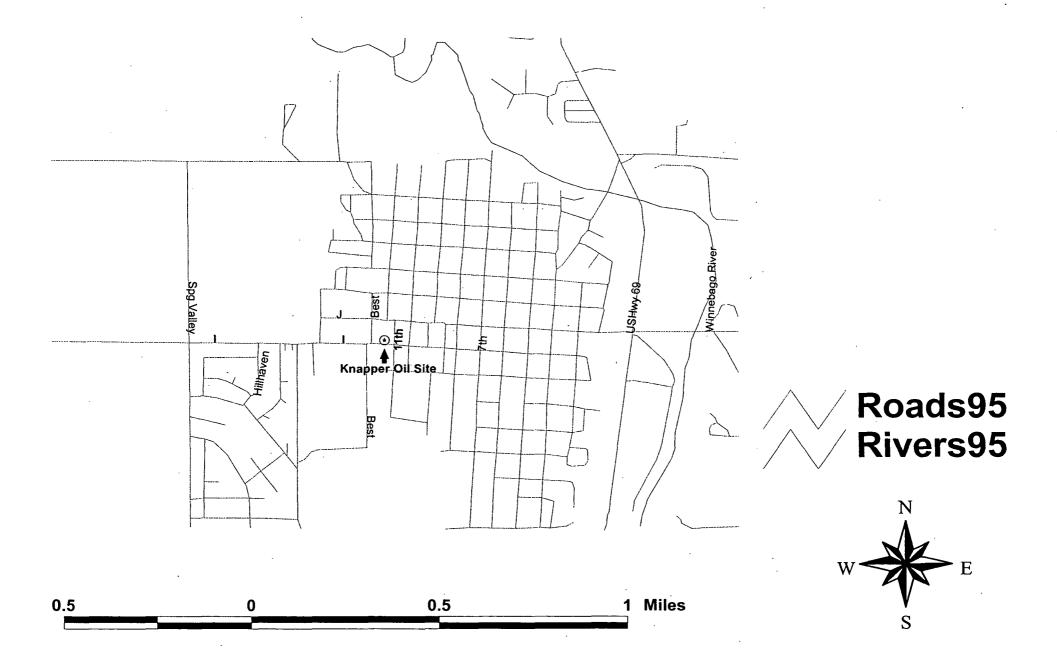
Date ESS Completed

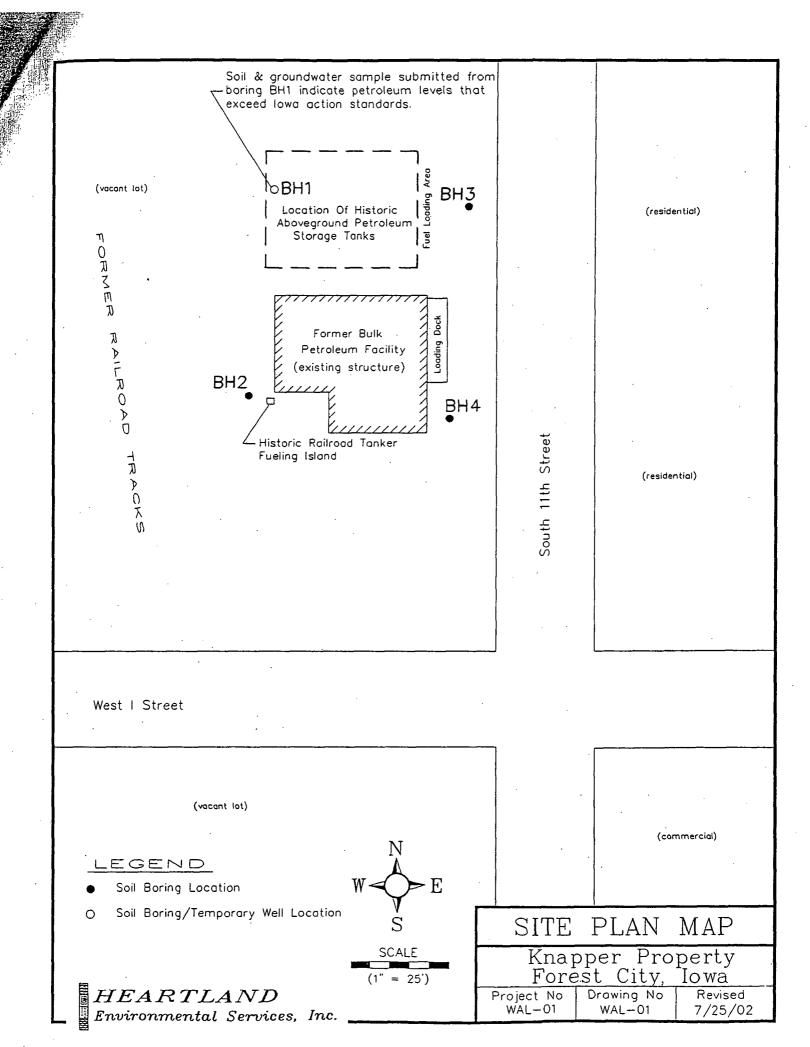
Date Completed

Form Reviewed

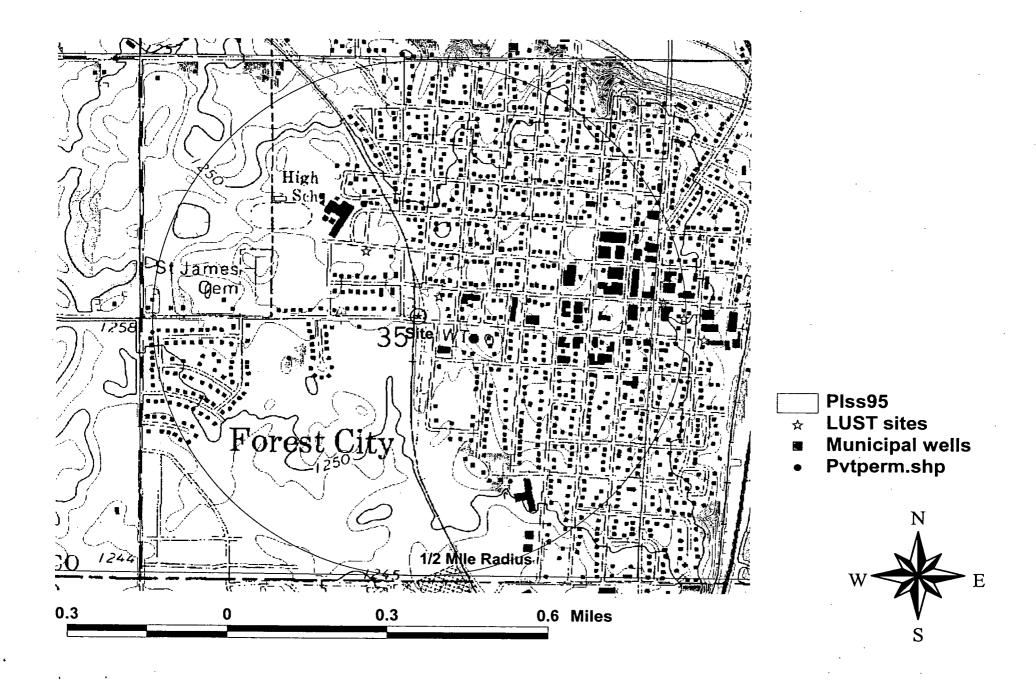
Date Reviewed /Z/6/02

Knapper Oil, Forest City, Site Location Map

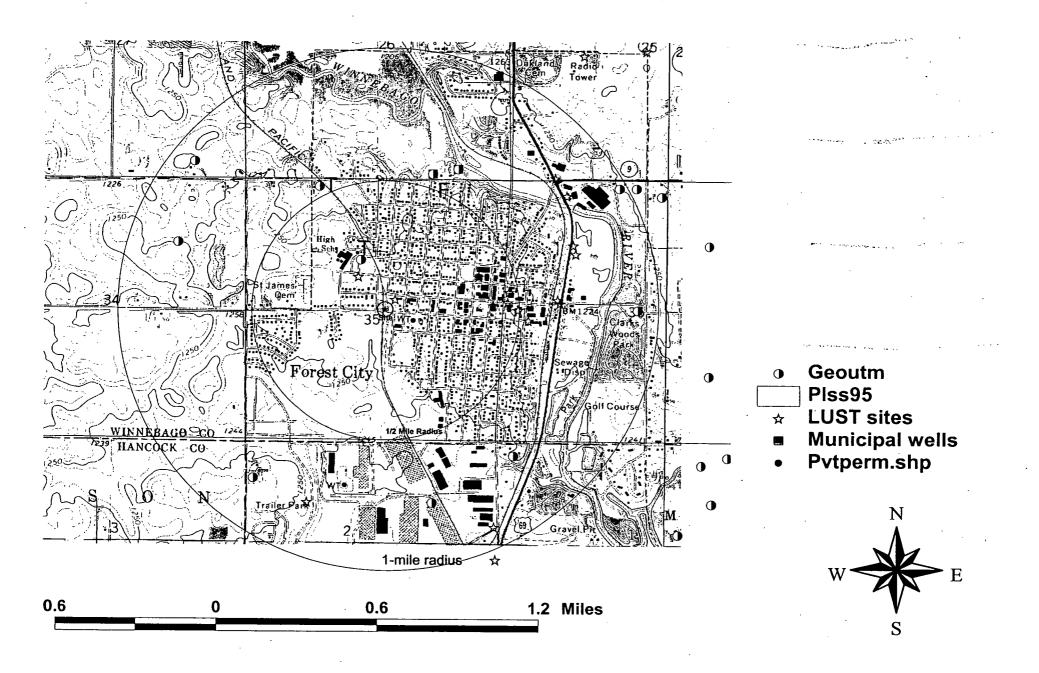




Knapper Oil Site - Municipal Water Supply



Knapper Oil Site - Well Locations



PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

Lambert A. Nnadi

Checklist Preparer:

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

11-05-2002

	(Name/Title)	•	(Date)			
	900 E. Grand Avenue 515			281-4117		
•	(Address) (Phone)			ne)		
	Lambert.nnadi@d	nr.state.ia.us				
•	(E-mail Address)					
Site Name:	Knapper Oil	·				
Previous Names (if any):						
Site Location:	Intersection of We	est I Street and South 1	1th Street			
	Forest City		IA 5043	3.8	•	
	(City)		(ST) (Zip)			
Latitude:	43.2647	Longitude:	93.7389			
1. Does the site already	appear in CERCLIS	is marked, please expla? of the structure of, and re		YES	NO 🗵	
residential buildings or t			suit in exposure with	"' 🗆		
		urally occurring substance				
it is naturally found?	r naturally occurring p	rocesses or phenomena,	nom a location wher			
4. Is the release into		drinking water supply d	ue to deterioration	of 📋	\boxtimes	
the system through or		ith the site (i.e., another f	ederal State or Trib	221	 	
program)?	•					
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?						
7. Are the hazardous su considerations (e.g., del		released at the site exclu ctive Action)?	ded by policy			
8. Is there sufficient doc release that could cause comprehensive remedia	cumentation that clea e adverse environmen al investigation equiva on, documentation sh	rly demonstrates that the ntal or human health impa lent data showing no rele owing that no hazardous	acts (e.g., ease above ARARs,		\boxtimes	
Please explain all "yes	s" answer(s), attach	additional sheets if nec	essary:	<u>.</u>		
6) The contaminants	involved are petrol	eum products which ar	e excluded from Cl	ERCLA act	tion.	
			•			

11/05/02 1 REV OCT 02

Site Determination:	☐ Enter the site into CERCLIS. Further assessment is recommended (Explain below).									
	☑ The site is not recommended for placement into CERCLIS (Explain below).									
	Further assessment is recommended under PRE-CERCLA (Explain below).									
DECISION/DISCUSSIO										
	are the Municipal wells situated approximately 0.6 miles north of the site. t 300 feet deep, in bedrock aquifer, and are unlikely to be impacted by									
the contaminants. The \	Winnebago River flows approximately 3000 feet north and east of the									
site. Impact to the river	from the site is also unlikely.									
Desired EDA Desired										
Regional EPA Reviewer:	Print Name/Signature Date									
State Agency/Tribe:	Carlingage (20 de Ma 12/6/02									
	Print Name/Signature Date									

PRE-CERCLIS INITIATION FORM NPL Status = O-NOT A VALID SITE OR INCIDENT

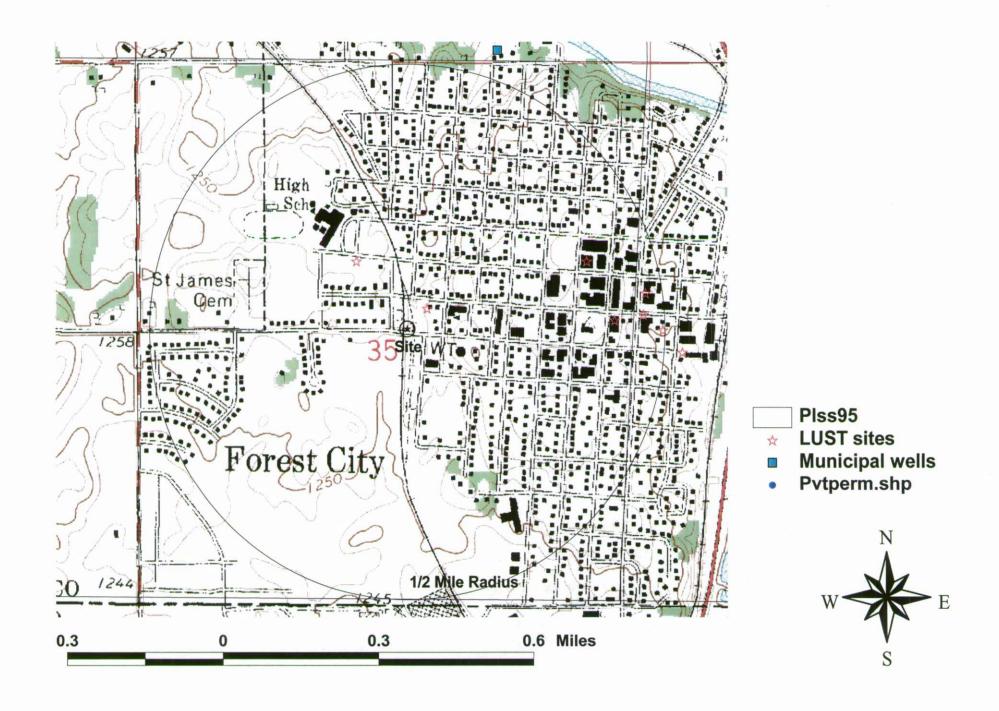
Date __/__/_

Site Name:Knapper C	Oil, Forest C	ity					
Address:S. 11th Street & W. I Street				County	Name: Winnebago		
City, State, Zip: Forest City, IA 50438			State ID (if one exists):095-0001		Congressional District: 4		
NPL Status: = ⊠ No	ot a Valid Si	te or Incid	ent Fe	deral Facility? 🗌 Yes 🛭	No	·	
Section: C-(SACR				anch 🛭 L-(EFLR) Enfr/F		F-(FFSE) Federal Facilities/Special Emphas O-(ER&R) Emergency Response & RV Bra	
List Site Alias Name	(s):						
				you get to J Street. Proceedion of I and 11th Street.	d west on J Street unti	l you get to S/. 11th Street. Go south one block ti	Il reach West I
Site Description: Form	ner railroad	storage fac	cility. Currently	, there is only one dilapida	ted building on-site. T	This building is used for "rough" storage.	
Site Size: 15,000					a: m (a)		
Site Dimension: A	cres eet	⊠ Square □ Square		☐ Miles	at least one sub-	se all that apply - for every main category chosen category must be selected; if more than one main ted indicate which is primary):	
USGS Quadrant: Fore	est City, IA	USGS Hy	dro Unit:		Primary designa	tion:	•
Latitude: 43. 2647 (Decimal Degree form	nat)				☐ CA-Ch	ring/Processing/Maintenance - Applicable sub-cemicals and allied products al gasification	ategories:
Lat/Long Accuracy: ☐ Degrees			☐ Miles ☐ Kilometers	Feet Meters	☐ EP-Electric p	se production bower generation and distribution. ctronic/electrical equipment	
Lat/Long Source: ☐ Regulated Entity ☐ SNAP ☑ Contractor	☐ EPA Re☐ Private☐ Other☐ EPA He		☐ EPIC ☐ Geograph ☐ Other Fed	Agency	☐ FT-Fab ☐ LW-Lu ☐ WP-Lu ☐ MF-Me	rics/textiles mber and wood products/pulp and paper mber and wood products/wood preserving/treatm etal fabrication/finishing/coating and allied indust and gas refining	
Operator Cour Type Distr (choose 1): Fede Gove Priva Prop	ately Owner	d y Owned o med/Contr d/Governm	or Operated actor Operated ent Operated o Government	☐ Indian Lands ☐ Other ☐ Private ☐ Mixed Ownership ☐ State Owned ☐ Trustee, Federal ☐ Trustee, State	☐ OP-Ord ☐ PR-Plas ☐ PM-Pri ☐ RA-Rad ☐ T A-Ta ☐ TS-Tru ☐ MI-Mining -	Inance production stics and rubber products mary metals/mineral processing dioactive products anneries cks/ships/trains/aircraft and related components Applicable sub-categories	
Operational Status:] Active	⊠ Ina	ctive	Unknown	CL-Co-	Management - Applicable sub-categories disposal landfill (municipal and industrial)	
Incident Type:	Non-Oil S	pill 🛭 Oil	Spill *	Unknown	🔲 IF-Indu	gal disposal/open dump strial waste facility (non-generator)	
Non-NPL Status (Cho- Protect: ☐ Yes ☒ No ☐ Not a Valid Site or In ☐ Not a Valid Site or In Add Action: OU 00 ☒ PRE-CERCLIS SC	o ocident ocident: RCR/		🔯 Not a	Valid Site or Incident: NRC Le Valid Site or Incident: State Le Valid Site or Incident: Tribal L / /	☐ MD-Mi ☐ ML-Mi ad ☐ RW-Ra ad ☑ OT-Other - A ead ☐ AG-Ag	strial waste landfill ne tailings disposal unicipal solid waste landfill dioactive waste treatment, storage, disposal (non- Applicable sub-categories ricultural (e.g., grain elevator) utaminated sediment site with no identifiable sour st control	
		Actual	Complete:	, ,	☐ MO-Mi ☑ PS-Prod ☐ RD-Res	ound water plume site with no identifiable source litary/Other Ordinance luct storage/distribution search, development, and testing facility	
Lead code (choose one F-EPA Fund Fianc		- Federal	Facility	S - State, Fund Finance	☐ SE-Spil ed ☐ TP-Tran ☐ TW-Tre	ail/commercial I or other one-time event sportation (e.g., railroad yards, airport, barge do atment works/septic tanks/other sewage treatmer	
SCAP Note:					AT-Aut	g - Applicable sub-categories comobiles/tires	
Add below Action (if No OU 00 Lead: PRE-CERCLIS A	: EP		Complete:	1 1		Ims/tanks	netal recovery
Comment: Site or [Signatures: State:	Action!	elle		Date (2/6/02	RPM/OSC/SAM·	Da	te / /
			- T		OOC/O/MYI	Da	·''

Knapper Oil, Forest City, Site Location Map



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