

SIRR Report for

Review

Unassigned Uncontrolled Sites

SIRR ID

O17-0002

Site Name

CURTIS 1000 FACILITY

City Location Mason City

Site Type

Other

County

Cerro Gordo

SITE INFORMATION

Property Owner

Curtis 1000, Inc.

Mailing Address

1318 18th Street

Mason City, Iowa 50401

Location/Legal Description

1318 18th Street, Mason City, Iowa

T96N, R20W, Section 17 SE 1/4, NE 1/4

Latitude 43.1352 Longitude 93.2231

Size Of Property

28,000 square feet

Report Prepared By

Keith Knoke, Delta Environmental Consultants, Inc Date Report Submitted 06/17/2002

Screening Activity Initial Site Screening

Report Submitted By Keith Knoke, Delta Environmental Consultants, Inc Current Usage

Printing Operations

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.)

ISS INFORMATION

Environmental Site Assessment-Phase II, June 2002

Eight soil borings (GP1 through GP8) were advanced on January 21, 2002. Each boring was advanced until refusal was reached at the upper bedrock surface, which ranged in depth from 3' bgs (GP7) to 7' bgs (GP2, GP5, and GP8). Soil samples were collected continuously from the ground surface to the depth of each boring. Soil samples were analyzed for VOCs, TEH (OA2), and RCRA metals. Collection of soil samples depended on PID screening results.

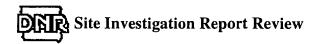
Three groundwater samples were collected at GP1, GP5, and GP7a on January 22, 2002. The samples were analyzed for VOCs, TEH (OA2), and RCRA metals.

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.)

ISS INFORMATION

Thursday, October 17, 2002

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Environmental Site Assessment-Phase II, June 2002

Curtis 1000 currently occupies the subject property and uses the facility for printing operations. The facility has been in operation since 1972. The building on-site was constructed in 1969 and was previously occupied by Dual Roll Corporation, a conveyor manufacturer. The site is located in a mixed commercial, industrial, and residential area.

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)

Geology varies little over the subject property. Field observations indicated that unconsolidated deposits at the site generally consist of silty clay with a trace of sand overlying limestone bedrock. An isolated zone of sand and gravel overlying bedrock was observed in GP7.

REVIEW SUMMARY

Contaminant Type

Other

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.

ISS INFORMATION

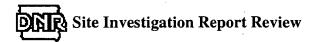
Environmental Site Assessment-Phase II, June 2002

RCRA metals-arsenic, barium, chromium, lead, and selenium-were detected in several soil samples. Arsenic was detected only in GP4 (5') above the statewide standard of 1.4 mg/kg with a concentration of 19.1 mg/kg. Trace amounts of barium, chromium, lead and selenium were discovered at the site; however, concentrations were not above statewide standards.

Arsenic, barium, cadmium, chromium, lead, selenium, and mercury were found to exist above statewide standards in the groundwater samples collected. Specifically, arsenic found at GP1 was 405 ug/L, GP5 was 2130 ug/L, and GP7a was 124 ug/L. The statewide standard for arsenic is 50 ug/L protected groundwater source. Barium concentrations above statewide standards exist at GP5 with a concentration at 2,720 ug/L. The statewide standard protected groundwater source for barium is 2,000 ug/L. Cadmium concentrations above statewide standards exist at GP1 and GP5, with a concentration of 12.5 ug/L and 43.4, respectively. The statewide standard protected groundwater source for cadmium is 5 ug/L. Chromium concentrations above statewide standards of 100 ug/L exist at GP1 and GP5 with a concentration of 327 ug/L and 513 ug/L, respectively. Lead exists in all three groundwater samples above the statewide standard of 15 ug/L. Lead concentrations at GP1 is 485 ug/L, GP5 is 898 ug/L, and GP7a 96.8 ug/L. Selenium exists in all three groundwater samples above the statewide standard of 50 ug/L as well. Selenium concentrations at GP1 is 303 ug/L, GP5 178 ug/L, and GP7a at 139 ug/L. Mercury was found to exist above the statewide standard of 2 ug/L at GP5 with the concentration of 9.62 ug/L.

(ug/L)	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
Standard	50	2,000	5	100	15	50	100	2
GP1	405	1,510	12.5	327	485	303	12.9	0.564
GP5	2,130	2,720	43.4	513	898	178	9.08	9.62
GP7a	124	556	<5	78.4	96.8	139	<7	< 0.2

The statewide standard applied follows Chapter 137 for groundwater samples. The groundwater statewide samples employed the protected groundwater standards. A protected groundwater source is defined as a saturated bed which has a hydraulic conductivity of at least 0.44 meters per day (m/d) and a total dissolved solids concentration of less than 2,500 milligrams per liter (mg/l). Because it is unknown whether the site is a protected groundwater source, its standards were applied.



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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.

ISS INFORMATION

Environmental Site Assessment-Phase II, June 2002

The site is surrounded by 18th Street and Wellborn Industries to the North, Pierce Avenue and Butler & Curtis Oil to the East, 19th Street and railroad tracks to the South and Petroblend property to the West.

According to the Phase I conducted in January 2002, there are several sites surrounding Curtis 1000 with an environmental history. For example, Wellborn is located upgradient and adjacent to Curtis 1000 Facility. The groundwater beneath Wellborn Industries was found to contain heavy metals and hazardous chemicals above action levels. The site was given a no further action by the LUST Section of the IDNR in February 1999. Also, AG Processing is located southwest of the site. It is classified as a LUST site. Cleanup began in 1991, with a recommendation by the environmental consultant as no further action. Butler & Curtis Company is located East of the site. Though four active USTs exist at the site, the site was issued a no further action in 1999.

Well information and/or other potential receptors are not known based on the Phase II submitted to the Department.

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

ISS INFORMATION

Because of the elevated levels of arsenic, barium, cadmium, chromium, lead and selenium detected in the groundwater samples, further investigation is warranted. This site warrants an ESS and recommend that the site remain in Pre-CERCLA.

PRIORITY LEVEL

Priority Level

2

PROGRAM AUTHORITY REFERRAL

Program Authority Referral LRP

Other Referral

ISS/Form Completed By

Jessica Montana

Date ISS Completed

10/18/2002

ESS Completed By

Date ESS Completed

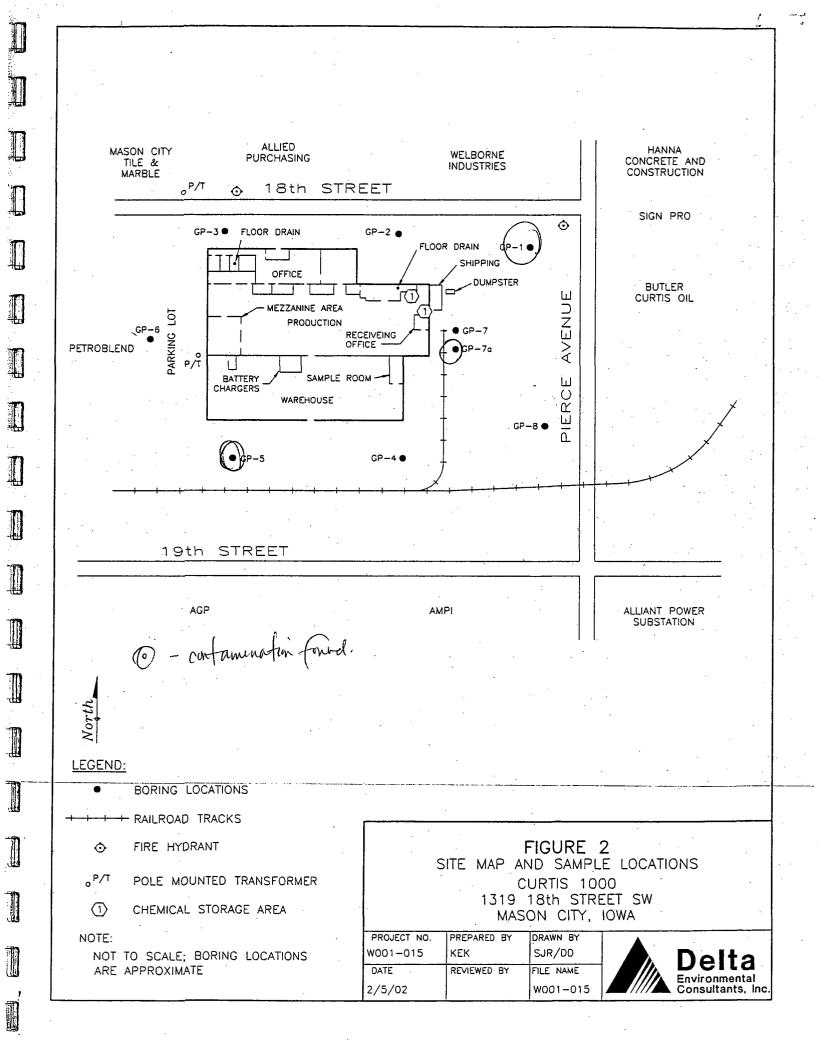
Date Completed

Form Reviewed

Lambert Nnadi
Cal Lundberg Cal Sundan 10/22/02

Date Reviewed

10/18/2002



PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

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.

Checklist Preparer:		r 4, 2002				
•	(Name/Title) (Date)					
	900 E. Grand Avenue, Des Moines, Iowa 50319 515-281 (Address) (Phone)	-8934				
	jessica.montana@dnr.state.ia.us					
•	(E-mail Address)					
Site Name:	Curtis 1000 Facility					
Previous Names (if any):	n/a					
Site Location:	1318 18th Street					
	(Street)					
-	Mason City Iowa 50401 (City) (ST) (Zip)					
Latitude:	43.1352 Longitude : 93.2231					
	,					
	checklist. If "yes" is marked, please explain below.	YES	NO			
Does the site already			\boxtimes			
	roducts that are part of the structure of, and result in exposure within, businesses or community structures?		\boxtimes			
	of a release of a naturally occurring substance in its unaltered form,					
or altered solely through	naturally occurring processes or phenomena, from a location where		\boxtimes			
it is naturally found?						
	a public or private drinking water supply due to deterioration of		\boxtimes			
the system through ordinary use? 5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal						
program)?	m actively involved with the site (i.e., another rederal, otale, or ribal					
6. Are the hazardous su	obstances potentially released at the site regulated under a statutory					
	n, natural gas, natural gas liquids, synthetic gas usable for fuel,		\boxtimes			
regulated by the NRC, L	tilizer, release located in a workplace, naturally occurring, or	_	_			
7. Are the hazardous su	ubstances potentially released at the site excluded by policy		\boxtimes			
	erral to RCRA Corrective Action)?					
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance release have occurred, EPA approved risk assessment completed)?						
Please explain all "yes	" answer(s), attach additional sheets if necessary:					
	- ·					
, -						
		-				

10/04/02

Site Determination:	☐ Enter the site into CERCLIS. Further assessment is recommended (Explain beliance)	ow).
	☑ The site is not recommended for placement into CERCLIS (Explain below).	
	•	
levels of arsenic, barium	ot recommended to be placed in CERCLIS. Because of the elevated n, cadmium, chromium, lead and selenium detected in the groundwater gation is warranted. The Department recommends that the site remain in	
a.		
•		
Regional EPA Reviewer: State Agency/Tribe:	Print Name/Signature Date Date Date	
	Print Name/Signature Date	1