EPA Region 5 Records Ctr.
366637

OHIO ENVIRONMENTAL PROTECTION AGENCY (OHIO EPA)

DIVISION OF EMERGENCY & REMEDIAL RESPONSE (DERR)

SITE INVESTIGATION (SI) REPORT

Fostoria Industries
Seneca County, Ohio

U.S. EPA ID: OHN000510314

April 30, 2009

Prepared by: _____ 5/29/09
Wendy Vorwerk, Date
Environmental Specialist II
Site Investigation Field Unit

Reviewed by: _____ 5/29/09
Ed Gortner Date
Supervisor
Site Investigation Field Unit

Reviewed by: _____ 5-5-09
Ghassan Tafla Date
Environmental Specialist II
Northwest District Office

Approved by: _____ 6/1/10
Date
Early Action Project Manager
USEPA Region 5

State of Ohio Environmental Protection Agency

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May 21, 2010

Mr. David Brauner
Site Assessment Manager
US EPA - Region 5
Office of Superfund **SE-6J**
77 West Jackson Blvd.
Chicago, IL 60604

RE: Fostoria Industries Inc.
CERCLIS ID OHN00510314

Dear Mr. Brauner:

The Site Investigation for the Fostoria Industries site was completed by Ohio EPA under a cooperative agreement with US EPA Region 5. Ohio performed this work in order to demonstrate whether or not the Fostoria Industries site is a National Priority List (NPL) caliber site by documenting observed releases, resultant contamination and potential targets.

Volatile Organic Compounds (VOCs) were detected in on-site soil and groundwater at concentrations greater than background. VOCs were also detected in off-site groundwater wells at concentrations greater than background.

Ohio has identified at least two separate potentially responsible parties as contributors to the contamination of the area aquifer, as indicated in Ohio EPA's final site inspection report dated August 11, 2009. However, the site does not score above 28.5 to warrant listing on the NLP. For this reason, Ohio EPA recommends that a No Further Remedial Action Planned (NFRAP) designation is appropriate for this Site. Ohio EPA is evaluating enforcement options to address the resultant contamination pursuant to Ohio's authority under state law.

Please feel free to contact me at (614) 836-8759 or by e-mail at wendy.vorwerk@epa.state.oh.us if you have any questions regarding Ohio's recommendation.

Sincerely,

Wendy Vorwerk
Temporary Working Level Site Assessment Supervisor
Assessment, Cleanup & Reuse Section
Division of Emergency & Remedial Response

Ec: Cindy Hafner, DERR
Tiffani Kavalec, DERR
Archie Lunsey, DERR, NWDO
Ed Gortner, DERR, SIFU

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

SUBJECT: Fostoria Industries, Inc. Site Investigation

DATE: June 2, 2010

FROM: David Brauner
Superfund Division, Remedial Response Section #4

TO: File

CERCLIS Site Name: Fostoria Industries, Inc.
City/County: Fostoria/Seneca
State: Ohio
U.S. EPA ID No: OHN00510314

Based on the information gathered during the PA, and from other available information, the following suggestions are presented.

This site has been evaluated for the need for immediate or non-time critical removal as a result of a substantial threat to both human health and the environment.

____ The site presents a threat that may require a time/non-time critical removal action.

X The site does not present a threat that requires a removal action.

Based on the findings of this report, the following decision options are available:

___ High priority for further remedial actions.

_ Other Cleanup Activity.

_X_ No Further Remedial Action Planned.

____ Recommended for HRS Scoring

Currently, no further federal remediation actions are recommended at this time

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EPA's Additional Comments:

Site Summary

Ohio EPA recently completed a site investigation (SI), as described in 40 CFR 300.420(b), for Fostoria Industries (FI). MDEQ's SI for FI was included in their cooperative agreement for site assessment activities with US EPA Region 5. FI is located in the City of Fostoria, Seneca County, Ohio.

Ground water contamination in the northern Fostoria area and at the FI site was originally documented in 1984. Based on sampling results of this SI, it appears FI is a contributing source of of trichloroethylene (TCE) to the surrounding aquifer.

As part of the SI, soil and monitoring wells sampling was conducted on October 22-23, 2008. A total of 16 samples including duplicates and backgrounds were collected on-site. The samples were analyzed through the U.S EPA Contract Laboratory Program (CLP) for the Target Compound List (TCL) organics, which included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs); and the Target Analyte List (TAL) metals and cyanide.

SI sampling results indicated that low levels of TCE were present in a shallow up gradient well, and the wells around a former TCE storage tank showed contamination as high as 2,100 ppb. TCE was also detected in the soils around this area at 700 ppb. TCE was not detected in the shallow down gradient well, but was at low levels in the deep down gradient well. It is possible that a TCE contamination plume is leaving the property but is not being intercepted by the down gradient wells.

Although most homes in the immediate area are connected to city water sources, there are still at least five potential targets outside of the city limits. Therefore, it is recommended that the Fostoria Industries site be included as a source for the continuing TCE ground water contamination problem in the northern Fostoria Area.

Pathway Analysis

Air

The Fostoria Industries site is an active manufacturing facility. Most of the land is covered with buildings or asphalt parking areas. There are some grassy areas that are maintained. The possibility of contaminants migrating as gas or particulates is low.

Ground Water

Fifteen former and current residential wells were sampled one week prior to this investigation as part of the Bendix Autolite Supplemental Expanded Site Investigation (SESI). Four residential wells are being used as a primary drinking water source. The eleven other wells sampled were from homes connected to municipal water supplies, but still had accessible wells.

All four current residential wells sampled had no detections of VOCs. Of the eleven former residential wells, five had significant detections of chlorinated solvents. The highest concentration of TCE was 6.0 ppb. Because there are several known sources of chlorinated solvents in the immediate area, attribution to one particular source cannot be determined. The threat from potentially contaminated ground water is considered low.

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Surface Water

Runoff from the Fostoria Industries site flows into the sewer system and wastewater treatment plant located downstream from the water treatment plant. The surface water intakes for the city of Fostoria are located in two reservoirs (upstream from the wastewater plant) on the west side of the city. The population served is about 15,000 people. The threat from potentially contaminated surface water is considered minimal.

Soil

The Fostoria Industries site is located in an industrial and nearby residential area of Fostoria. The site is mostly covered by buildings and asphalt parking areas, with some grassy areas. A maintained fence surrounds the rear half of the site. According to the Fostoria Industries web site, there are 139 employees on-site. There are no resident individuals, which are defined by HRS rule as a person who lives or attends school on and within 200 feet an area of contamination. The nearby population within one mile is 4,560. Exposure to contaminated soil is considered to be low.

Conclusions

Ohio EPA has completed the SI, as described in 40 CFR 300.420(b), for Fostoria Industries under a cooperative agreement with US EPA Region 5. Upon completion of the SI, we evaluated the site in accordance with the Hazard Ranking System (HRS) by running HRS Quickscore version 2.3 software. Quickscore included an evaluation of the ground water pathway, the groundwater to surface water pathway, and soil exposure pathway, including the potential for humans to consume contaminated ground water or contaminated surface water. EPA determined that the site does not merit further consideration for proposal to the National Priorities List (NPL) based on the Quickscore which was estimated at less than 28.50 (5.87).

Ohio EPA wishes to designate the site for No Further Remedial Action Planned (NFRAP). EPA accepts OEPA's recommendation.

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****** CONFIDENTIAL ******
******PRE-DECISIONAL DOCUMENT ******
****** SUMMARY SCORESHEET ******
****** FOR COMPUTING PROJECTED HRS SCORE ******

****** Do Not Cite or Quote ******

Site Name: Fostoria Industries

Region: 5

City, County, State: Fostoria, Seneca County, OH

Evaluator: David Brauner

EPA ID#: OHN000510314

Date: 8/11/09

Lat/Long:

T/R/S:

Congressional District:

This Scoresheet is for: SI

Scenario Name:

Description:

	S pathway	S^2 pathway
Ground Water Migration Pathway Score (S_{gw})	11.73	137.5929
Surface Water Migration Pathway Score (S_{sw})	0.06	0.0036
Soil Exposure Pathway Score (S_s)	0.11	0.0121
Air Migration Score (S_a)		
$S^2_{gw} + S^2_{sw} + S^2_s + S^2_a$		137.6086
$(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		34.40215
$/ (S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		5.87

υ Pathways not assigned a score (explain):

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated:			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	550	
2. Potential to Release:			
2a. Containment	10		
2b. Net Precipitation	10		
2c. Depth to Aquifer	5		
2d. Travel Time	35		
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500		
3. Likelihood of Release (higher of lines 1 and 2e)	550		550
Waste Characteristics:			
4. Toxicity/Mobility	(a)	10000	
5. Hazardous Waste Quantity	(a)	100	
6. Waste Characteristics	100		32
Targets:			
7. Nearest Well	(b)	50	
8. Population:			
8a. Level I Concentrations	(b)		
8b. Level II Concentrations	(b)		
8c. Potential Contamination	(b)	5	
8d. Population (lines 8a + 8b + 8c)	(b)	5	
9. Resources	5		
10. Wellhead Protection Area	20		
11. Targets (lines 7 + 8d + 9 + 10)	(b)		55
Ground Water Migration Score for an Aquifer:			
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000][c]	100		11.7
Ground Water Migration Pathway Score:			
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)[c]	100		11.7

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 4-25 –GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET			
Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated:			
Drinking Water Threat			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	550	
2. Potential to Release:			
2a. Containment	10		
2b. Net Precipitation	10		
2c. Depth to Aquifer	5		
2d. Travel Time	35		
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500		
3. Likelihood of Release (higher of lines 1 and 2e)	550		550
Waste Characteristics:			
4. Toxicity/Mobility	(a)	10000	
5. Hazardous Waste Quantity	(a)	10	
6. Waste Characteristics	100		18
Targets:			
7. Nearest Well	(b)	0	
8. Population:			
8a. Level I Concentrations	(b)		
8b. Level II Concentrations	(b)		
8c. Potential Contamination	(b)	0.5	
8d. Population (lines 8a + 8b + 8c)	(b)	0.5	
9. Resources	5		
10. Targets (lines 7 + 8d + 9)	(b)	0.5	
Drinking Water Threat Score:			
11. Drinking Water Threat Score ([lines 3 x 6 x 10]/82,500, subject to max of 100)	100		0.06
Human Food Chain Threat			
Likelihood of Release:			
12. Likelihood of Release (same value as line 3)	550		550
Waste Characteristics:			
13. Toxicity/Mobility/Persistence/Bioaccumulation	(a)		
14. Hazardous Waste Quantity	(a)	10	
15. Waste Characteristics	1000		0
Targets:			
16. Food Chain Individual	50		
17. Population			
17a. Level I Concentration	(b)		
17b. Level II Concentration	(b)		
17c. Potential Human Food Chain Contamination	(b)		
17d. Population (lines 17a + 17b + 17c)	(b)		
18. Targets (lines 16 + 17d)	(b)		
Human Food Chain Threat Score:			
19. Human Food Chain Threat Score [(lines 12x15x18)/82,500,suject to max of 100]	100		0
Environmental Threat			
Likelihood of Release:			
20. Likelihood of Release (same value as line 3)	550		550
Waste Characteristics:			
21. Ecosystem Toxicity/Persistence/Bioaccumulation	(a)		
22. Hazardous Waste Quantity	(a)	10	
23. Waste Characteristics	1000		0
Targets:			
24. Sensitive Environments			
24a. Level I Concentrations	(b)		
24b. Level II Concentrations	(b)		
24c. Potential Contamination	(b)		

24d. Sensitive Environments (lines 24a + 24b + 24c)	(b)	
25. Targets (value from line 24d)	(b)	
Environmental Threat Score:		
26. Environmental Threat Score [(lines 20:23x25)/82,500 subject to a max of 60]	60	0
Ground Water to Surface Water Migration Component Score for a Watershed		
27. Watershed Score[c] (lines 11 + 19 + 28, subject to a max of 100)	100	0.06
28. Component Score (S_{gs})[c] (highest score from line 27 for all watersheds evaluated, subject to a max of 100)	100	0.06

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Likelihood of Exposure:			
1. Likelihood of Exposure	550		550
Waste Characteristics:			
2. Toxicity	(a)	10000	
3. Hazardous Waste Quantity	(a)		
4. Waste Characteristics	100		0
Targets:			
5. Resident Individual	50	0	
6. Resident Population:			
6a. Level I Concentrations	(b)		
6b. Level II Concentrations	(b)		
6c. Population (lines 6a + 6b)	(b)		
7. Workers	15	10	
8. Resources	5		
9. Terrestrial Sensitive Environments	(c)		
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)		10
Resident Population Threat Score			
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)		0
Nearby Population Threat			
Likelihood of Exposure:			
12. Attractiveness/Accessibility	100	10	
13. Area of Contamination	100	5	
14. Likelihood of Exposure	500		5
Waste Characteristics:			
15. Toxicity	(a)	10000	
16. Hazardous Waste Quantity	(a)	100	
17. Waste Characteristics	100		32
Targets:			
18. Nearby Individual	1	1	
19. Population Within 1 Mile	(b)	57	
20. Targets (lines 18 + 19)	(b)		58
Nearby Population Threat Score			
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)		9280
Soil Exposure Pathway Score:			
22. Pathway Score[d] (S_s), [lines (11+21)/82,500, subject to max of 100]	100		0.11

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60
[d] Do not round to nearest integer