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State of Ohio Environmental Protection Agency

STREET ADDRESS:

Central District Office

MAILING ADDRESS:

Lazarus Government Center
50 W. Town St., Suite 700
Columbus, Ohio 43215

TELE: (614) 728-3778 FAX: (614) 728-3898
www.epa.state.oh.us

P.O. Box 1049
Columbus, OH 43216-1049

June 7, 2007

Mr. Robert Schoepke, P.G.
Director - Remediation
Safety-Kleen Systems, Inc.
1502 East Villa Street
Elgin, IL 60120

Re: **Safety-Kleen Systems, Inc.**
Hebron Recycle Center
TSD/LQG
OHD980587364/01-45-0518
Licking County, CDO
NOV

Dear Mr. Schoepke:

On September 1, 2006, Ohio EPA received the January to June 2006 Semiannual Corrective Action Progress Report from Safety-Kleen Systems, Inc. (Safety-Kleen) for the Hebron Recycle Center (Facility) in Licking County. On March 2, 2007, Ohio EPA received Safety-Kleen's July to December 2006 Semiannual Corrective Action Progress Report and the Supplementary Annual Corrective Action Progress Report for 2006 for the Facility. These reports were reviewed for compliance with Ohio's hazardous waste laws and rules as found in Chapter 3734 of the Ohio Revised Code (ORC) and Chapter 3745 of the Ohio Administrative Code (OAC) and the terms and conditions of Safety-Kleen's hazardous waste permit.

We found the following violations of Ohio's hazardous waste rules. In order to correct these violations you must do the following and send me the required information **within 30 days** of your receipt of this letter:

1. **OAC Rule 3745-50-58(A) and Permit Condition E.9(a)(vi)(b), Ground Water Sampling:**
The permittee must comply with all conditions of the hazardous waste permit. Pursuant to Permit Condition E.9(a)(vi)(b), Safety-Kleen must analyze for the presence of metals in unfiltered samples and should also collect filtered samples from wells in which a turbidity level exceeds five (5) nephelometric turbidity units (NTUs) despite reasonable care to minimize turbidity.

Based on discussions at the June 1, 2007, Ohio EPA/Safety-Kleen meeting, Safety-Kleen did not analyze for the presence of metals in unfiltered samples. Instead, ground water samples were taken, sent to the laboratory, and then filtered before analysis.

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

- To return to compliance, Safety-Kleen must resample all of the wells listed in Permit Condition E.9(a)(vi)(b), analyze for the presence of metals in unfiltered samples, and provide Ohio EPA with the results. Ohio EPA recommends that Safety-Kleen use a low flow purge and sample method to minimize turbidity. Please submit a schedule for resampling these wells to me **within 30 days** of your receipt of this letter.
- 2. **OAC Rule 3745-50-58(A) and Permit Condition E.9(a)(vii)(a), Ground Water Confirmation Sampling:** The permittee must comply with all conditions of the hazardous waste permit. Permit Condition E.9(a)(vii)(a) requires Safety-Kleen to conduct confirmation sampling within thirty (30) days of the date the data is reported and validated.

Confirmation samples for metals were not conducted for any of the 13 downgradient monitoring wells subsequent to the initial modified appendix sampling conducted in April 2006, although confirmation sampling was conducted for volatile organic compounds (VOCs).

- To return to compliance, Safety-Kleen must resample all of the wells listed in Permit Condition E.9(a)(vi)(b) to analyze for metals. If the sampling results in the detection of any metals, Safety-Kleen must conduct confirmation sampling within 30 days of the date the data is reported and validated and provide the results to Ohio EPA. Please submit a schedule for re-sampling these wells and performing confirmation sampling, if applicable, to me **within 30 days** of your receipt of this letter.

General Comments

1. **More information is needed to determine whether Safety-Kleen is in compliance** with OAC Rule 3745-50-58(A) which states that the permittee must comply with all conditions of the permit. Permit Condition G.7(c) requires Safety-Kleen's statistical procedures to be protective of human health and the environment, provide reasonable confidence that the migration of hazardous constituents from a regulated unit into and through the aquifer will be indicated, and determine whether such leakage of hazardous constituents into the ground water exceeds specified concentration limits.

For vinyl chloride, the statistical evaluation needs to be capable of evaluating chemicals of concern (COC) detections to the concentration limit of 2 ug/L as listed in the table in Permit Condition G.2(a). However, Appendix C-1, Table 33B of the Supplementary Annual Report for 2006 indicates that the upper prediction limit for vinyl chloride was 20 ug/L in well H-15S.

To determine compliance, Safety-Kleen needs to submit documentation to justify why the upper prediction limit used was ten times higher than the listed concentration limit. Please submit this documentation to me **within 30 days** of your receipt of this letter.

2. **Ohio EPA also recommends that Safety-Kleen investigate the cause of the significant increase in vinyl chloride concentrations observed in the area of well H-15S.**

- 2. Ohio EPA also recommends that Safety-Kleen investigate the cause of the significant increase in vinyl chloride concentrations observed in the area of well H-15S.**

A statistically significant detection of vinyl chloride was observed in well H-15S during the October 2006 sampling event (86J ug/L in October compared to 0.94J ug/L in June 2006). Safety-Kleen should provide a discussion or explanation for the detection in the next regularly submitted report.

- 3. Ohio EPA recommends that Safety-Kleen use a low flow purge and sample method to minimize turbidity for future ground water sampling.**
- 4. Ohio EPA recommends that Safety-Kleen continue to evaluate the extent of ground water contamination.**

Specifically, Safety-Kleen should install additional monitoring wells west of H-9S and H-15S to determine the extent of COCs in ground water; north of H-8M and H-24S to define the extent of COCs in the shallow, middle, and deep ground water zones; and north of the river to define the extent of COCs in the middle and deep ground water zones based upon the detections of 1,4-dioxane to date.

- 5. Ohio EPA also recommends that Safety-Kleen provide an evaluation of what additional remedial action will be necessary to address COCs in ground water, including the 1,4-dioxane detections in the middle and deep ground water zones.**

The effectiveness of the ground water recovery system in the shallow ground water zone cannot be determined at this time because the extent of ground water contamination has not been fully defined in the shallow ground water zone.

The current network of ground water recovery wells does not extend to the middle or deep ground water zones. Therefore, it is not effective at treating or maintaining containment of COCs in the middle or deep ground water zones. Following the development of approved cleanup levels in the risk assessment, an evaluation of remedial options should be submitted in the first regularly submitted report.

- 6. Ohio EPA recommends that Safety-Kleen provide additional information regarding the detection limits used at the site.**

Safety-Kleen should provide additional information to support whether the practical quantitation limits (PQLs) used for the modified appendix sampling and subsequent ground water sampling were the lowest concentration levels that can be reliably achieved in accordance with OAC Rule 3745-54-97(1)(5). In addition, Safety-Kleen should supply a list of method detection limits (MDLs) used by the laboratory during the modified appendix sampling.

Mr. Robert Schoepke
Safety-Kleen Systems, Inc.
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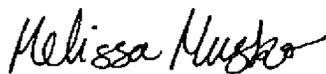
As discussed at the June 1, 2007 Ohio EPA/Safety-Kleen meeting, Safety-Kleen plans to submit a Quality Assurance Program Plan (QAPP) to Ohio EPA as an attachment to the revised Risk Assessment Work Plan as required by Permit Condition A.27(a)(ii)(a).

7. **Ohio EPA recommends that all new COCs detected during the modified appendix sampling continue to be sampled and analyzed in all wells during each sampling event until the background concentrations can be established.**
8. **Ohio EPA recommends that Safety-Kleen conduct a stream study to evaluate the impacts of contaminated ground water discharge to the river.**

As discussed at the June 1, 2007, Ohio EPA/Safety-Kleen meeting, Safety-Kleen plans to perform surface water sampling as part of the risk assessment that is required by Permit Condition A.27(a)(ii). Safety-Kleen will include a sampling plan and/or reference to a sampling plan in the revised Risk Assessment Work Plan as required by Permit Condition A.27(a)(ii)(a).

Should you have any questions, please feel free to call me at (614) 728-3887. You will find copies of the rules and other information on the division's web page at: <http://www.epa.state.oh.us/dhwm>.

Sincerely,



Melissa Musko
Environmental Specialist
Division of Hazardous Waste Management
Central District Office

c: Stephen Lear, Safety-Kleen Systems, Inc.
Tammy McConnell, DHWM/CO
Randy Sheldon, DHWM/CDO
Jason Reed, DDAGW/CDO
CDO File

MM/nsm Jan 2006 GW reports NOV letter

NOTICE:

Ohio EPA's failure to list specific deficiencies or violations in this letter does not relieve your company from having to comply with all applicable regulations.