DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

RCRA Corrective Action

Environmental Indicator (EI) RCRIS code (CA725) Current Human Exposures Under Control

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Facility	Address	5540 Memorial Drive, Allentown PA 18104					
Facility	EPA ID	#: PAD 980 552 020					
1	Has all available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this determination?						
	\boxtimes	If yes - check here and continue with #2 below.					
		If no - re-evaluate existing data, or					
		if data are not available, skip to #8 and enter "IN" (more information needed) status code.					

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two EI developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Current Human Exposures Under Control" EI

A positive "Current Human Exposures Under Control" EI determination ("YE" status code) indicates that there are no "unacceptable" human exposures to "contamination" (i.e., contaminants in concentrations in excess of appropriate risk-based levels) that can be reasonably expected under current land- and groundwater-use conditions (for all "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Current Human Exposures Under Control" EI are for reasonably expected human exposures under current land- and groundwater-use conditions ONLY, and do not consider potential future land- or groundwater-use conditions or ecological receptors. The RCRA Corrective Action program's overall mission to protect human health and the environment requires that Final remedies address these issues (i.e., potential future human exposure scenarios, future land and groundwater uses, and ecological receptors).

Duration / Applicability of EI Determinations

EI Determinations status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

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2. Are groundwater, soil, surface water, sediments, or air **media** known or reasonably suspected to be "contaminated" above appropriately protective risk-based "levels" (applicable promulgated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action (from SWMUs, RUs or AOCs)?

		Yes	<u>No</u>	<u>?</u>	Rationale / Key Contaminants	
Groundw	ater		X		•	
Air (indo	ors) ²		X			
Surface S	Soil (e.g., <2 ft)		X			
Surface V	Water		X			
Sedimen		\mathbf{X}_{\cdot}				
Subsurf.		X				
Air (outdoors)			X			
	If no (for all media) - skip to #6, and enter "YE," status code after providing or citing appropriate "levels," and referencing sufficient supporting documentation demonstrating that these "levels" are not exceeded.					
	If yes (for any media) - continue after identifying key contaminants in each "contaminated" medium, citing appropriate "levels" (or provide an explanation for the determination that the medium could pose an unacceptable risk), and referencing supporting documentation.					
	If unknown (for any media) - skip to #6 and enter "IN" status code.					

Rationale and Reference(s):

Safety Kleen operated on site since 1979. Safety Kleen submitted a notification of Hazardous Waste Activity on August 12, 1980. Safety Kleen was inspected approximately yearly by PADEP and periodically by EPA until Safety Kleen closed in 2003. During 2003 the Environmental Indicator Inspection report was completed by Tetra Tech. The closure certificate was for Safety Kleen was signed by PADEP in 2005.

During the 2004 closure of the facility, Safety Kleen conducted groundwater samples (4) and soil samples (2). The samples indicated that arsenic was above industrial soil standards in the containment storage area. This area has a concrete slab floor. However due to the facility not storing arsenic in this area the levels of aresenic above industrial soil standards is believed to not be from the facility. The other samples had chemicals below industrial soil standards and MCLs.

References:

Final Environmental Indicator Inspection Report, done by Tetra Tech FW, Inc. submitted to EPA and PADEP in October 2003.

Closure Report done by Safety Kleen, submitted to PADEP in December 2004.

Memorandum to file done by USEPA in March 2014.

Footnotes:

¹ "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriately protective risk-based "levels" (for the media, that identify risks within the acceptable risk range).

² Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggest that unacceptable indoor air concentrations are more common in structures above groundwater with volatile contaminants than previously believed. This is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration necessary to be reasonably certain that indoor air (in structures located above (and adjacent to) groundwater with volatile contaminants) does not present unacceptable risks.

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6.	Check the appropriate RCRIS status codes for the Current Human Exposures Under Control EI (event code CA725), and obtain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach appropriate supporting documentation as well as a map of the facility).								
	YE - Yes, "Current Human Exposures Under Control" has been verified. Based the information contained in this EI Determination, "Current Human Exposures" be "Under Control" at the Safety Kleen facility, EPA ID # PAD 980 552 020, loc Memorial Drive Allentown are under current and reasonably expected conditions determination will be re-evaluated when the Agency/State becomes aware of sig changes at the facility.								
		NO - "Current Human Exposures" are NOT	"Current Human Exposures" are NOT "Under Control."						
		IN - More information is needed to make a determination.							
	Completed by	Catheryn Blankenbiller	Date						
	Supervisor	Paul Actiful Cl Paul Gotthold	Date 3/10/14						
		Associate Director Region 3	• •						
Locat	ions where Referen	ces may be found:							
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