US ERA ARCHIVE DOCUMENT

#### DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

#### RCRA Corrective Action Environmental Indicator (EI) RCRIS code (CA725)

#### Current Human Exposures Under Control

Faci	lity Name:	Garvin Industrial Park (former Specialized Recycling parcel)  1315 Read Street (parcel at 1550 Baker Ave.), Evansville, IN 47710  INO 000 342 097					
Faci	lity Address:						
Faci	lity EPA ID #:						
1.	groundwater, s	ole relevant/significant information on known and reasonably suspected releases to soil, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in ination?					
	x	If yes - check here and continue with #2 below.  If no - re-evaluate existing data, or					
	·	If data are not available skip to #6 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 programs 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	No	?	Rationale / Key Contaminants	
Groundwater		х		No affected groundwater. Hazardous wastes managed indoors on concrete slab, IDEM granted closure certification on April 29, 1998	
Air (indoors) 2		X		No VOCs detected	
Surface Soil (e.g., <2 ft)		X		No VOCs detected	
Surface Water		Х		No affected surface water	
Sediment		X		No affected sediment	
Subsurf. Soil (e.g., >2 ft)		x		No VOCs detected	
Air (outdoors)		х		No affected outdoor air	
appropriate that these  If yes (for "contamine determina supporting that these are that the that these are that the the that the that the that the the the that the the the the the the the the the th	te levels, "levels" any med ated" met tion that g docume	" and refe are not ea lia) - cont edium, cit the media entation.	erencing xceeded tinue aft ting app um coul	d enter "YE," status code after providing or citing sufficient supporting documentation demonstrating l.  ter identifying key contaminants in each propriate "levels" (or provide an explanation for the d pose an unacceptable risk), and referencing to #6 and enter "IN" status code.	

A portion of the Garvin Industrial Park site (at the intersection of Baker & Morgan) previously contained an illegal hazardous waste drum storage facility known as Specialized Recycling, which leased space and operated out of the Old Union Stockyards building in Evansville, Indiana. A July 7, 1994 complaint investigation report by IDEM identified approximately 300 corroded and leaking 55 gallon drums of unknown waste located in a dilapidated warehouse at the site, resulting in numerous RCRA violations and a filing of felony charges against the primary responsible party. The drums were removed and transported to permitted treatment, storage or disposal facilities in 1995, and a September 1996 Agreed Order between IDEM and the facility required the property owner to conduct a RCRA closure for the hazardous waste storage. A public notice was performed in May 1996. In February 1998, Garvin Industrial Park submitted a closure certification report to IDEM reportedly indicating there was no soil contamination, and in April 1998, IDEM issued a state clean closure certification approval to Garvin Industrial Park. The former building was demolished in approximately 1999, and the property was subdivided and redeveloped with several small warehouses.

#### Key References:

Rationale and Reference(s):

- IDEM RCRA-TSD Inspection Report, April 15, 1993
- IDEM Closure Certification Approval, April 29, 1998
- 3) IDEM Office Memorandum, Trip Report, March 22, 1999

#### 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).
- <sup>2</sup>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.

3. Are there complete pathways between "contamination" and human receptors such that exposures can be reasonably expected under the current (land- and groundwater-use) conditions?

Summary Exposure Pathway Evaluation Table

#### Potential Human Receptors (Under Current Conditions)

Contaminated Media	Residents	Workers	Day Care	Construction	Trespassers	Recreation	Food <sup>3</sup>
Groundwater							
Air (indoors)							
Soil (surface, e.g., <2 ft)	100000						
Surface Water							
Sediment		0.00				A INCOME	
Soil (subsurface e.g., >2 ft)							
Air (outdoors)							

Instructions for Summary Exposure Pathway Evaluation Table:

- Strike-out specific Media including Human Receptors= spaces for Media which are not contaminated") as identified in #2 above.
- enter yes" or no" for potential completeness" under each Contaminated" Media Human Receptor combination (Pathway).

Note: In order to focus the evaluation to the most probable combinations some potential Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces (\_\_\_\_"). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.

÷	If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional <u>Pathway Evaluation Work Sheet</u> to analyze major pathways).
	If yes (pathways are complete for any Contaminated" Media - Human Receptor combination) - continue after providing supporting explanation.
_	If unknown (for any Contaminated" Media - Human Receptor combination) - skip to #6 and enter IN" status code
Rationale and R	deference(s):

<sup>&</sup>lt;sup>3</sup> Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

es can not be reasonably expected to be significant (i.e., potentially
of for any complete exposure pathway) - skip to #6 and enter YE" status laining and/or referencing documentation justifying why the exposures the complete pathways) to contamination" (identified in #3) are not significant."
res could be reasonably expected to be significant" (i.e., potentially ) for any complete exposure pathway) - continue after providing a feach potentially unacceptable" exposure pathway) and explaining and/or cumentation justifying why the exposures (from each of the remaining ways) to contamination" (identified in #3) are not expected to be
or any complete pathway) - skip to #6 and enter IN" status code
<u>e</u> 1 - <u>1</u> 2

<sup>4</sup> If there is any question on whether the identified exposures are significant" (i.e., potentially unacceptable") consult a human health Risk Assessment specialist with appropriate education, training and experience.

	If yes (all significant" exposures have been shown to be within acceptable limits) - continue and enter YE" after summarizing and referencing documentation justifying why
	all significant" exposures to contamination" are within acceptable limits (e.g., a site- specific Human Health Risk Assessment).
-	If no (there are current exposures that can be reasonably expected to be unacceptable")- continue and enter NO" status code after providing a description of each potentially unacceptable" exposure.
	If unknown (for any potentially unacceptable" exposure) - continue and enter IN" status code

		1 ago /					
	(CA725), and o	priate RCRIS status codes for the Current Human Exposures Under Control EI event code otain Supervisor (or appropriate Manager) signature and date on the EI determination belo- opriate supporting documentation as well as a map of the facility):					
	X	YE - Yes, "Current Human Exposures Under Control" has been verified. Based on a review of the information contained in this EI Determination, "Current Human Exposures" are expected to be "Under Control" at the Garvin Industrial Park facility, EPA ID # INO 000 342 097, located at 1315 Read Street (parcel at 1550 Baker Ave.), in Evansville, Indiana under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.					
	·	NO - "Current Human Exposures" are NOT "Under Control."					
	· ·	IN - More information is needed to make a determination.					
	Completed by:	(signature) Date 12/15/11					
		(print) Joseph C. Kelly, P.G.					
		(title) Physical Scientist					
	Supervisor:	(signature) Date /2/15/11					
		(print) Hak Cho					
		(title) Section Chief					
		(EPA Region / State) LCD/RRB, CA1 Region 5					
	Locations wher	References may be found:					
	US EPA Regi	,					
	77 W. Jackson Blvd. Chicago, IL 60604						
		ele 09048 hard drive					
	Contact telepho	ne and e-mail numbers .					
	(name)	Joseph Kelly					
	(phone	#) 312-252-2111					

FINAL NOTE: THE HUMAN EXPOSURES EI IS A QUALITATIVE SCREENING OF EXPOSURES AND THE DETERMINATIONS WITHIN THIS DOCUMENT SHOULD NOT BE USED AS THE SOLE BASIS FOR RESTRICTING THE SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

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(e-mail)