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**

Facility Addi	1020 West Park Avenue, Kokomo, Indiana, 46901
Facility EPA	ind 984 867 481
grour Mana	vailable relevant/significant information on known and reasonably suspected releases to soil, ater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste nent Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this nination?
	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.
BACKGROUN	

# **Definition of Environmental Indicators (for the RCRA Corrective Action)**

Haynes International, Inc.

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**

**Facility Name:** 

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>	?	Rationale / Key Contaminants
Groundwater	X			1,1,1-Trichloroethane (TCA)
Air (indoors) <sup>2</sup>		X		
Surface Soil (e.g., <2 ft)	X			chromium, lead, and nickel
Surface Water		X		
Sediment		X		
Subsurf. Soil (e.g., >2 ft)		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):

One sample result at monitoring well SP-7A detected 1,1,1-trichloroethane (TCA) at a concentration of 41,500 ppb; which exceeded the IDEM screening level of 9,200 ppb for commercial/industrial groundwater use. This sample was collected at a depth of 4.5-6.5 feet below grade. Soil samples along the north and south banks of Wildcat Creek have chromium and lead concentrations above the IDEM commercial/industrial default exposure levels. Several of these samples also have the following organic constituents above IDEM commercial/industrial default exposure levels; indeno(1,2,3-cd)pyrene, benzo(B)fluoanthene, benzo(A)pyrene, and benz(A)anthracene. Elevated chromium and nickel is also located in the soil adjacent to the waste acid tanks, and slag reclaim dust collector.

Groundwater Assessment Report Area South of Building R-35, April 23, 1992. Haynes International RCRA Facility Investigation (RFI) Phase I Environmental Monitoring Report, July, 1990.

DSO North-RCRA Facility Investigation, February, 1994.

### Footnotes:

<sup>1</sup> "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).

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<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

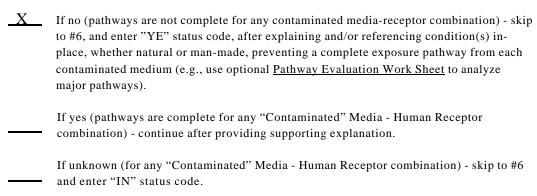
#### Potential **Human Receptors** (Under Current Conditions)

"Contaminated" Media Resid	Workers	Day-Care	Construction	Trespassers	Recreation	$Food^3$	
Groundwater	no	no	no	no			no
Air (indoors)	-	-	-				
Soil (surface, e.g., <2 ft)	no	no	no	no	no	no	no
Surface Water	-	-			-	-	-
Sediment	-	-			-	-	-
Soil (subsurface e.g., >2 ft)				-			-
Air (outdoors)	-	-	-	-	-		

## Instructions for **Summary Exposure Pathway Evaluation Table**:

- 1. Strike-out specific Media including Human Receptors' spaces for Media which are not "contaminated" as identified in #2 above.
- 2. 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.



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Site is secured by a six-foot chain-link fence with barbed wire. The W ildcat Creek bank is remote from public access and is steep and heavily vegetated. The flood control berm along the north landfill also is topped with fencing. The main gate to the plant is manned 24 hours a day by a two-man crew. Employees and visitors require an entry pass.

Groundwater Assessment Report Area South of Building R-35, April 23, 1992.

Haynes International RCRA Facility Investigation (RFI) Phase I Environmental Monitoring Report, July, 1990.

RCRA Post-Closure Permit Renewal Application, September, 1999.

DSO North-RCRA Facility Investigation, February, 1994.

Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

manc	ct I amway/Recepte	(c.g., vegetables, fruits, crops, meat and dairy products, fish, shefffish, etc.)
4.	"significant" 4 (i greater in magni acceptable "leve (perhaps even th	es from any of the complete pathways identified in #3 be reasonably expected to be i.e., potentially "unacceptable" because exposures can be reasonably expected to be: 1) tude (intensity, frequency and/or duration) than assumed in the derivation of the els" (used to identify the "contamination"); or 2) the combination of exposure magnitude rough low) and contaminant concentrations (which may be substantially above the els") could result in greater than acceptable risks)?
		If no (exposures can not be reasonably expected to be significant (i.e., potentially "unacceptable") for any complete exposure pathway) - skip to #6 and enter "YE" status code after explaining and/or referencing documentation justifying why the exposures (from each of the complete pathways) to "contamination" (identified in #3) are not expected to be "significant."
		If yes (exposures could be reasonably expected to be "significant" (i.e., potentially "unacceptable") for any complete exposure pathway) - continue after providing a description (of each potentially "unacceptable" exposure pathway) and explaining and/or referencing documentation justifying why the exposures (from each of the remaining complete pathways) to "contamination" (identified in #3) are not expected to be "significant."
		If unknown (for any complete pathway) - skip to #6 and enter "IN" status code

## Rationale and Reference(s):

<sup>&</sup>lt;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.

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	If yes (all "significant" exposures have been shown to be within acceptable limits) - continue and enter "YE" after summarizing <u>and</u> 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

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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 belo (and attach appropriate supporting documentation as well as a map of the facility):						
_X	review of the information contained in this E are expected to be "Under Control" at the Harder 4867 481, located at 1020 West Park Avenue, reasonably expected conditions. This determ Agency/State becomes aware of significant	I Determination, "Current Human Exposusy aynes International facility, EPA ID # IND Kokomo, Indiana under current and hination will be re-evaluated when the 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 <u>5-04-00</u>				
	(print) Todd Gmitro					
	(title) Project Manager					
Supervisor	(signature)	Date				
	(print)					
	(title)					
	(EPA Region or State)					
Locations when	e References may be found:					
U.S. EPA, Regi	on 5					
Records Center						
77 west Jackson Boulevard, DW-8J						
Chicago, IL 606	)4					
Contact telepho	e and e-mail numbers					
(name	Todd Gmitro					
		_				
(phon	$\pi$ (312) 660-3707					

FINAL NOTE: THE HUMAN EXPOSURES ELIS 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.

#### DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

## **RCRA Corrective Action Environmental Indicator (EI) RCRIS code (CA750)**

## Migration of Contaminated Groundwater Under Control

Facility Name:	Haynes International, Inc.				
Facility Address:	1020 West Park Avenue, Kokomo, Indiana, 46901				
Facility EPA ID #:	IND 984 867 481				
groundwate	ilable relevant/significant information on known and reasonably suspected releases to the er media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units Regulated Units (RU), and Areas of Concern (AOC)), been <b>considered</b> in this EI determination?  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.

### <u>Definition of "Migration of Contaminated Groundwater Under Control" EI</u>

A positive "Migration of Contaminated Groundwater Under Control" EI determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "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 "Migration of Contaminated Groundwater Under Control" EI pertains ONLY to the physical migration (i.e., further spread) of contaminated ground water and contaminants within groundwater (e.g., nonaqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

#### **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.	Is <b>groundwater</b> known or reasonably suspected to be "contaminated" above appropriately protective
	"levels" (i.e., applicable promulgated standards, as well as other appropriate standards, guidelines,
	guidance, or criteria) from releases subject to RCRA Corrective Action, anywhere at, or from, the facility?

<u>X</u>	If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.
	If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."
	If unknown - skip to #8 and enter "IN" status code.

## Rationale and Reference(s):

A small zone of contaminated groundwater at the water table has been detected near a former 1,1,1-trichloroethane (TCA) drum stage area. The storage are consisted of a gravel pad. Detected TCA contamination covers an area of approximately 100 feet by 100 feet, and is found only at the water table (5-6 foot depth). Contamination is not found at depth since the main sand (57 foot depth) and limestone bedrock (70 foot depth) is overlain by a low permeability clay till.

One sample result at monitoring well SP-7A detected TCA at a concentration of 41,500 ppb; which exceeds the IDEM screening level of 9,200 ppb for commercial/industrial groundwater use. This sample was collected at a depth of 4.5-6.5 feet below grade. Four other geoprobe groundwater samples detected TCA, but at levels much lower than the screening level.

Groundwater Assessment Report Area South of Building R-35, April 23, 1992. Haynes International RCRA Facility Investigation (RFI) Phase I Environmental Monitoring Report, July, 1990.

DSO North-RCRA Facility Investigation, February, 1994.

# Footnotes:

<sup>1</sup>"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 appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

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3. Has the **migration** of contaminated groundwater **stabilized** (such that contaminated groundwater is expected to remain within "existing area of contaminated groundwater" as defined by the monitoring locations designated at the time of this determination)?

X	If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated
	groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination" <sup>2</sup> ).
—	If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination" <sup>2</sup> ) - skip to #8 and enter "NO" status code, after providing an explanation.
	If unknown - skip to #8 and enter "IN" status code.

#### Rationale and Reference(s):

Three monitoring wells and eight Geoprobe groundwater sampling well points were used to delineate the extent of the groundwater TCA "plume" adjacent to monitoring well SP-7A. Results indicated that the detectable TCA is limited to a 100 foot by 100 foot area and only extends to the water table (5-6 feet below grade). TCA decreases very quickly with lateral and horizontal distance, and with depth; and is limited to the surficial clay till. The limited areal extent of the TCA is due to the very low vertical and horizontal permeabilities, and shallow hydraulic gradient of the surficial clay till.

Groundwater Assessment Report Area South of Building R-35, April 23, 1992. Haynes International RCRA Facility Investigation (RFI) Phase I Environmental Monitoring Report, July, 1990. DSO North-RCRA Facility Investigation, February, 1994.

<sup>&</sup>lt;sup>2</sup> "existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

1.	Does "contaminated" groundwater discharge into surface water bodies?
	If yes - continue after identifying potentially affected surface water bodies.
	X If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing a explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.
	If unknown - skip to #8 and enter "IN" status code.
	Rationale and Reference(s):
	As discussed above contamination is confined to a small area within a low permeability

clay till. The nearest surface water is approximately 1000 feet from the detected TCA.

Groundwater Assessment Report Area South of Building R-35, April 23, 1992. Haynes International RCRA Facility Investigation (RFI) Phase I Environmental Monitoring Report, July, 1990.

DSO North-RCRA Facility Investigation, February, 1994.

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5.	maximum concent appropriate groun discharging conta	ration <sup>3</sup> of each contaminant discharging into surface water likely to be "insignificant" (i.e., the ration <sup>3</sup> of each contaminant discharging into surface water is less than 10 times their dwater "level," and there are no other conditions (e.g., the nature, and number, of minants, or environmental setting), which significantly increase the potential for acts to surface water, sediments, or eco-systems at these concentrations)?
		If yes - skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration <sup>3</sup> of <u>key</u> contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgement/explanation (or reference documentation) supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.
		If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) - continue after documenting: 1) the maximum known or reasonably suspected concentration <sup>3</sup> of <u>each</u> contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into surface water in concentrations greater than 100 times their appropriate groundwater "levels," the estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged (loaded) into the surface water body (at the time of the determination), and identify if there is evidence that the amount of discharging contaminants is increasing.
		If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

 $<sup>^3</sup>$  As measured in groundwater prior to entry to the groundwater-surface water/sediment interaction (e.g., hyporheic) zone.

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6.	acceptable" (i.e.	ge of "contaminated" groundwater into surface water be shown to be "currently, not cause impacts to surface water, sediments or eco-systems that should not be allowed a final remedy decision can be made and implemented <sup>4</sup> )?
		If yes - continue after either: 1) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment, appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and eco-systems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the EI determination.
		If no - (the discharge of "contaminated" groundwater can not be shown to be "currently acceptable") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.
		If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):

<sup>&</sup>lt;sup>4</sup> Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.

<sup>&</sup>lt;sup>5</sup> The understanding of the impacts of contaminated groundwater discharges into surface water bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

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7.	Will groundwater monitoring / measurement data (and surface water/sediment/ecological data, as
	necessary) be collected in the future to verify that contaminated groundwater has remained within the
	horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"

<u>X</u>	If yes - continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that
	groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination."
	If no - enter "NO" status code in #8.
	If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

Prior to approving the final RFI, soil and groundwater sampling will be required in the area of the former TCA drum storage area. Sampling will be focused on verifying that "hot spots" of TCA contaminated soil, if present, are detected and removed. Some groundwater samples will be taken to verify that the TCA present at the water table has stabilized. As discussed above, prior sampling has indicated that the TCA is limited to a small area near the former drum storage area and is found only at the water table. Due to the low hydraulic conductivity of the uppermost water-bearing units (clay tills), many of the wells yield very little groundwater. Therefore, a detailed groundwater monitoring program for these units is impracticable. In addition, three monitoring wells along the east sides of the DSO South Landfill would detect further migration of TCA contamination in the groundwater.

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A YE - Yes, "Migration of Contaminated Groundwater Under Control" has been verified. Based on a review of the information contained in this EI Determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the Haynes International facility, EPA ID # IND 984 867 481, located at 1020 West Park Avenue, Kokomo, Indiana, Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.  NO - Unacceptable migration of contaminated groundwater is observed or expe  IN - More information is needed to make a determination.  Completed by (signature) Date   Date   Date	Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Cont EI (event code CA750), 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).					
verified. Based on a review of the information contained in this EI  Determination, it has been determined that the "Migration of Contaminated Groundwater" is "Under Control" at the Haynes International facility, EPA ID #  IND 984 867 481, located at 1020 West Park Avenue, Kokomo, Indiana.  Specifically, this determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the "existing area of contaminated groundwater" This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.  NO - Unacceptable migration of contaminated groundwater is observed or experimental in the information is needed to make a determination.  Completed by (signature) (print) Todd Gmitro (title) Project Manager  Supervisor (signature) Date (print) (title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5  Records Center, 7th floor 77 west Jackson Boulevard, DW-8J						
IN - More information is needed to make a determination.  Completed by (signature) Date 5-04-00  (print) Todd Gmitro (title) Project Manager  Date (print) (title) (title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7th floor 77 west Jackson Boulevard, DW-8J	<u>X</u>	verified. Based on a review of the inform Determination, it has been determined the Groundwater" is "Under Control" at the IND 984 867 481, located at 1020 West Passecifically, this determination indicates groundwater is under control, and that me that contaminated groundwater "This determinated groundwater".	nation contained in this EI nat the "Migration of Contaminated Haynes International facility, EPA ID # nark Avenue, Kokomo, Indiana. I that the migration of "contaminated" conitoring will be conducted to confirm within the "existing area of ination will be re-evaluated when the			
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Supervisor  (signature) (print) (title)  (print) (title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J						
Supervisor  (signature) (print) (title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J	Completed by	(signature)	Date 5-04-00			
Supervisor  (signature) (print) (title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J						
(print) (title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J		(title) Project Manager				
(title) (EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J	Supervisor	(signature)	Date			
(EPA Region or State)  Locations where References may be found:  U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J		(print)				
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U.S. EPA, Region 5 Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J		(EPA Region or State)				
Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J	Locations when	e References may be found:				
Records Center, 7 <sup>th</sup> floor 77 west Jackson Boulevard, DW-8J	U.S. EPA, Regi	on 5				
Chicago, IL 60604						
	Chicago, IL 606	04				
	Contact telepho	ne and e-mail numbers				
Contact telephone and e-mail numbers	(name	Todd Gmitro				
	(phon	e #) (312) 886-5909				

Gmitro.Todd@EPA.GOV

(e-mail)