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 Address:	34199 Curtis Boulevard, Eastlake, Ohio 44095
Facility EPA ID #:	OHD 004 153 854
groundwater	able 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 this tion?
_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.
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Definition of Environmental Indicators (for the RCRA Corrective Action)

United Musical Instruments, 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).

Page 2

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)?

Groundwater	Yes X	<u>No</u>	<u>?</u>	Rationale / Key Contaminants trichloroethene (TCE), vinyl chloride, 1,1,1- trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), cis-1,2-DCE
Air (indoors) ²		X		
Surface Soil (e.g., <2 ft)		X		
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):

TCE in soils have been remediated to the site-specific cleanup level of 0.27 ppm, which was calculated to protect leaching to groundwater. Soils were treated on-site in a bulk, ex-situ, soil vapor extraction (SVE) treatment cell. Confirmatory sampling in June 1998 showed no exceedances of the 0.27 ppm TCE cleanup goal. Confirmatory samples were split with the U.S. EPA and the results verified. See *Soil Remediation Report* (January 1999).

Groundwater is contaminated with low levels of VOCs, and quarterly compliance monitoring shows slight exceedances of federal drinking water maximum contaminant levels (MCLs) for trichloroethene and vinyl chloride from one on-site well. A perimeter monitoring well has not shown exceedances of MCLs (all parameters are below detection limits). The most recent groundwater monitoring data (February, 2000 event) showed concentrations of TCE at 0.0063 mg/L, and vinyl chloride at 0.0031 mg/L. The MCL for TCE is 0.005 mg/L and for vinyl chloride is 0.002 mg/L. See Submittal of Results of Twelfth Quarterly Compliance Groundwater Monitoring Event (3/27/00).

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.

Page 3

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 Reside	nts	Workers	Day-Care	Construction	Trespassers	Recreation	$Food^3$
Groundwater	No	No	No	No			No
Air (indoors)							
Soil (surface, e.g., <2 ft)							
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.

<u>X</u>	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) inplace, 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 Reference(s):

The aquifer underneath and surrounding the UMI facility is not currently used as a drinking water source. The site is underlain by approximately 4 - 7 feet of Allis series soils and glacial till. These materials are underlain by consolidated bedrock of the Chagrin Member of the Devonian Ohio Shale Formation. Groundwater beneath UMI is situated within this Chagrin Shale. Groundwater pumping rates indicate that specific yield and transmissivity of the aquifer are low.

³ Indirect Pathway/Receptor (e.g., vegetables, fruits, crops, meat and dairy products, fish, shellfish, etc.)

"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 .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 ls" (used to identify the "contamination"); or 2) the combination of exposure magnitude ough low) and contaminant concentrations (which may be substantially above the ls") 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."
Potionals and Po	If unknown (for any complete pathway) - skip to #6 and enter "IN" status code
	"significant" 4 (i greater in magni acceptable "leve (perhaps even th

⁴ 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 <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

Page 6

(CA725), and ol	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 below opriate supporting documentation as well as a map of the facility):					
<u>X</u>	review of the are expect ID # OHD current and	, "Current Human Exposures Under Cothe information contained in this EI Deed to be "Under Control" at the United 004 153 854, located at 34199 Curtised reasonably expected conditions. This Agency/State becomes aware of signif	etermination, "(d Musical Instr s Boulevard, E s determination	Current Human Exposures' ruments, Inc. facility, EPA astlake, Ohio under n will be re-evaluated		
	NO - "Cu	arrent Human Exposures" are NOT "Ur	nder Control."			
	IN - Mor	re information is needed to make a det	ermination.			
Completed by	(signature	e)	Date	04/03/00		
	(print)	Lisa K. Geist				
	(title)	Ecologist				
Supervisor	(signature	e)	Date			
	(print)	Joseph M. Boyle				
	(title)	Chief, ECAB				
	(EPA Reg	gion or State) U.S. EPA Region 5				
U.S. EPA		s may be found:				
Waste, Pesticid		es Division				
7 th Floor Record						
Chicago, IL 606						
Cincago, IL 000	04					
Contact telepho	ne and e-mai	l numbers				
(name) Lisa	a K. Geist				
(nhon		2) 886–0878				

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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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: United Musical Instruments, Inc.								
Facility .	Address:	34199 Curtis Boulevard, Eastlake, Ohio 44095						
Facility 1	EPA ID#:	OHD 004 153 854						
	groundwater med	relevant/significant information on known and reasonably suspected releases to the lia, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units ated Units (RU), and Areas of Concern (AOC)), been considered in this EI determination? 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).

Page 2

Is groundwater l	known or reasonably suspected to be "contaminated" above appropriately protective
"levels" (i.e., ap	plicable promulgated standards, as well as other appropriate standards, guidelines,
guidance, or crite	eria) 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.
	"levels" (i.e., app

Rationale and Reference(s):

Groundwater is contaminated with low levels of volatile organic compounds (VOCs), and quarterly compliance monitoring events show slight exceedances of federal drinking water maximum contaminant levels (MCLs) for trichloroethene and vinyl chloride from one on-site well. The groundwater is monitored for the following parameters: trichloroethene (TCE), vinyl chloride, 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), and cis-1,2-DCE. A perimeter monitoring well has not shown exceedances of MCLs (all parameters are below detection limits). The most recent groundwater monitoring data (February, 2000 event) showed concentrations of TCE at 0.0063 mg/L, and vinyl chloride at 0.0031 mg/L at one on-site well (MW14). The MCL for TCE is 0.005 mg/L and for vinyl chloride is 0.002 mg/L. See Submittal of Results of Twelfth Quarterly Compliance Groundwater Monitoring Event (3/27/00).

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 appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

Page 3

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)?

<u>X</u>	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" ²).
	If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination" ²) - 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):

During October and November, 1999, UMI installed a permeable reactive barrier immediately upgradient of the monitoring well with known contamination (MW14), and between the source area and the facility boundary. The barrier consists of a reactive iron/sand mixture, placed in a trench positioned to intercept the contaminated groundwater flow as is moves west/northwest beneath the facility. An additional secondary containment trench was installed by UMI to contain any VOC-contaminated groundwater downgradient of the permeable reactive barrier. The permeable reactive barrier is expected to intercept virtually the entire plume of contaminated groundwater onsite, react with the volatile organic compounds, and degrade these constituents to non-toxic products such as ethene, ethane, and chloride. Therefore, the migration of contaminated groundwater has been effectively controlled at the facility. The *Groundwater Remediation System Installation Report* (January 2000) documents that the design specifications for the reactive iron mixture and trench construction were met and verified during site activities.

Groundwater monitoring continues to show low levels of trichloroethene and vinyl chloride in the monitoring well immediately downgradient of the barrier. However, these low levels are expected to decrease as the permeable reactive iron barrier intercepts and treats the remaining VOCs in the groundwater. A perimeter monitoring well downgradient of the barrier system has not shown any contamination with VOCs. This well is approximately 70 feet downgradient of the barrier. Future monitoring of the groundwater compliance wells and barrier system will continue. The trend in concentrations of TCE and vinyl chloride in MW14 are shown in the following table.

Para m	May 97	Aug 97	Nov 97	Feb 98	May 98	Aug 98	Nov 98	Feb 99	May 99	Aug 99	Nov 99	Feb 00
TCE	0.003	0.0052	0.01	0.0045	0.11	0.006	0.004	0.032	0.047	0.039	0.0092	0.0063
Vinyl Chlor	0.0014	0.0022	0.0036	0.0015	0.0024	0.0019	0.0024	0.0024	0.0027	0.0031	0.0019	0.0031

Note: The MCLs for TCE = 0.005 mg/L and Vinyl Chloride = 0.002 mg/L.

² "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.

4.	Does "contaminated" groundwater discharge into surface water bodies?						
	If yes - 0	continue after identifying potentially affected surface water bodies.					
	explana	kip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an tion and/or referencing documentation supporting that groundwater aination" does not enter surface water bodies.					
	If unkno	own - skip to #8 and enter "IN" status code.					
	Rationale and Reference(s):					
Conta	uminated groundwater has not	moved off-site, and any potential discharge areas are located approximately 2					

miles downgradient from the facility. The closest surface water body is Lake Erie.

Page 5

5.	Is the discharge of "contaminated" groundwater into surface water likely to be "insignificant" (i.e., the maximum concentration ³ of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts 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 ³ 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 ³ 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 ³ 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.			
	Dationale and Deference(s):			

Rationale and Reference(s):

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

6.	acceptable" (i.e., not cause impacts to surface water, sediments or eco-systems that should not be allowed to continue until a final remedy decision can be made and implemented ⁴)?			
	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, ⁵ 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):			

⁴ 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.

⁵ 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.

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 Re	ference(s):				
		groundwater samples from its 6 compliance monitoring wells until May 2001. See U.S. ision for United Musical Instruments, Inc. (7/20/95) and Statement of Basis (June 1994).				

(e-mail)

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Migration of Contaminated Groundwater Under Control Environmental Indicator (EI) RCRIS code (CA750)

8.	Check the appropriate RCRIS status codes for the Migration of Contaminated Groundwater Under Control 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).				
	_X	YE - Yes, "Migration of Contaminated Groundwa verified. Based on a review of the information contit has been determined that the "Migration of Conta" "Under Control" at the United Musical Instrument 004 153 854, located at 34199 Curtis Blvd., East Specifically, this determination indicates that the magroundwater is under control, and that monitoring that contaminated groundwater remains within the contaminated groundwater" This determination with Agency becomes aware of significant changes at the NO - Unacceptable migration of contaminated groundwater and contaminated groundwater is needed to make a determination is needed to make a determination is needed to make a determination of contaminated groundwater is needed to make a determination is needed to make a determination with the contaminated groundwater is needed to make a determination is needed to make a determination with the contaminated groundwater is needed to make a determination is needed to make a determination with the contaminated groundwater is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determination with the contamination is needed to make a determinati	tained in this EI determination, aminated Groundwater" is ts Inc. facility, EPA ID # OHD lake, Ohio 44095. nigration of "contaminated" will be conducted to confirm "existing area of ll be re-evaluated when the he facility. oundwater is observed or expected.		
	Completed by	(signature) (print) Lisa K. Geist (title) Ecologist	Date <u>04/03/00</u>		
	Supervisor	(signature) (print) Joseph M. Boyle (title) Chief, ECAB (EPA Region or State) U.S. EPA Region 5	Date		
	Locations where References may be found: U.S. EPA Waste, Pesticides and Toxics Division RCRA Records Center, 7 th floor 77 W. Jackson Blvd., Chicago, IL 60604 Contact telephone and e-mail numbers (name) Lisa K. Geist (phone #) (312) 886-0878				