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ENVIRONMENTAL INDICATOR (EI) RCRIS CODE (CA725)

Current Human Exposures Under Control

Facility	Name:	SAFETY KLEEN (OLD FACILITY)
Facility	Address:	11843 SE. Highway 212, Clackamas, OR 97015
Facility	EPA ID #	#: ORD 092895481
1.	groundwa Managen	available 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 etermination?
		If yes - check here and continue with #2 below.
		If no - re-evaluate existing data, or
		If data 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 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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Current Human Exposures Under Control Environmental Indicator (EI) RCRIS Code (CA725) 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)?

"Contaminated" Media	Yes	No	?	Rationale / Key Contaminants
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If unknown (for any media) - skip to #6 and enter "IN" status code.

Groundwater	✓	
Air (indoors)	✓	
Soil (surface, e.g., <2 ft)	✓	
Surface Water	✓	
Sediment	✓	
Soil (subsurface e.g., >2 ft)	✓	
Air (outdoors)	✓	

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.

Rationale and Reference(s):

Safety Kleen operated a collection and distribution center at this facility from 1978 to 1993. While in use, this facility operated as an accumulation point for spent solvents generated by commercial customers. The spent solvents were transferred from drums to a 12,000 gallon waste Underground Storage Tank (UST) via a pump into a return and fill station.

In February 1991, a preliminary environmental assessment of the Safety-Kleen Facility was conducted. Elevated levels of total petroleum hydrocarbons (TPH) as mineral spirits and volatile organic compounds were identified in soils and groundwater. Since the initial preliminary assessment conducted in 1991, Safety Kleen has conducted numerous additional site investigations from March 1993 to July 1997, to characterize the nature and extent and potential sources of the chemical compounds in soil and groundwater. Quarterly groundwater sampling has been conducted at the site since September 1991.

The primary concern at the Facility was soil and groundwater contaminated with mineral spirits, aromatic VOCs, and halogenated VOCs. Safety Kleen was advised that groundwater contamination would be addressed through a Post-Closure corrective action permit. In January 1994, Safety Kleen implemented interim corrective measures consisting of a pump and treat system for groundwater, which has been very effective in reducing the concentration of contaminants of concern. The ditch formerly located east of the site now flows through a culvert. The culvert and adjacent property are covered with a gravel pad; therefore, there is no longer a connection between groundwater and surface water at the site.

Safety Kleen entered into a Consent Order with the DEQ on April 5, 2000. This Order required Safety Kleen to conduct a site-wide Remedial Investigation/Feasibility Study (RI/FS) including a risk assessment. The April 13, 2000, Draft Risk Assessment submitted by Safety Kleen indicated that for current exposures to soil or groundwater, cancer risks do not exceed the Oregon DEQ acceptable risk level of 10-6. For non-carcinogens, none of the hazard indices for any potential receptors exceed 1.0; therefore, there are currently no exposure risks to soil or groundwater at the site. Neither residential nor

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commercial worker exposures to soil or groundwater exceed the Oregon DEQ acceptable cumulative risk level of 10⁻⁵. Based on exposure pathways and activities conducted at the site, no other media exposures were found to pose a health risk. On November 12, 2002, DEQ issued a no further action (NFA) certified completion of the Consent Order requirements, and closed the RCRA units at the site.

- ^{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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Current Human Exposures Under Control	
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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 ³
Groundwater							
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.

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 Pathway Evaluation Work Sheet 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):

(CONTINUED ON NEXT PAGE)

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Current Human Exposures Under Control Environmental Indicator (EI) RCRIS Code (CA725) Page 5

4.	Can the exposures from any of the complete pathways identified in #3 be reasonably expected to be "significant" (i.e., potentially "unacceptable" because exposures can be reasonably expected to be: (1) greater in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the acceptable "levels" (used to identify the "contamination"); or (2) the combination of exposure magnitude (perhaps even though low) and contaminant concentrations (which may be substantially above the acceptable "levels") 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):

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

^{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.

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	an Exposures Under Control al Indicator (EI) RCRIS Code (CA725)
Can tl	ne "significant" exposures (identified in #4) be shown to be within acceptable limits?
	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
Ratio	nale and Reference(s):
	Can th

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

SCOPE OF MORE DETAILED (E.G., SITE-SPECIFIC) ASSESSMENTS OF RISK.

SAFETY KLEEN RCRA CORRECTIVE ACTION **INTERIM FINAL: OCT. 2000** Page 7 of 7

Current Human Exposures Under Control Environmental Indicator (EI) RCRIS Code (CA725) Page 7

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 (and attach appropriate supporting documentation as well as a map of the facility):					
		the information contained in this I be "Under Control" at the SAFE Clackamas, OR 97015, Facilit	EI Determ ETY KLE ty EPA II nination w	ination, "Curre EN (OLD) loc 0 #: ORD 0928	been verified. Based on a review of ant Human Exposures" are expected to ated at 11843 SE. Highway 212, 195481, under current and reasonably ated when the Agency/State becomes	
		NO - "Current Human Exposures"	' are NOT	"Under Control		
		IN - More information is needed t	to make a	determination.		
Comple	eted By:					
(Signature			-	9/25/02 (Date)		
Barb Pu (Print Na.			<u> </u>	Hazardous Was (Title)	ste Specialist	
Superv	isor:					
(Signatur	e)		-	(Date)		
Andree Pollock (Print Name)			_	Manager, NWF (Title)	R-Hazardous Waste Compliance	
(EPA Reg	ion or State)	-			
		References may be found:				
	NWR D	•				
Contac	t telepho	ne and E-mail numbers:				
BILL R	BILL ROBERTSON, NWR			29-6843	robertson.bill@deq.state.or.us	
(Name)		-	(Phone Nu	mber)	(E-Mail)	
FINAL N					REENING OF EXPOSURES AND THE SOLE BASIS FOR RESTRICTING THE	

SAFETY KLEEN (OLD FACILITY)

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ENVIRONMENTAL INDICATOR (EI) RCRIS CODE (CA750)

Migration of Contaminated Groundwater Under Control

Facility	Addres	s: 11843 SE. Highway 212, Clackamas, OK 97015
Facility	EPA ID	0#: ORD 092895481
1.	ground	available relevant/significant information on known and reasonably suspected releases to the water media, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units J), Regulated Units (RU), and Areas of Concern (AOC)), been considered in this EI nation?
	\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

Facility Name:

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 "Migration of Contaminated Groundwater Under Control" EI

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., non-aqueous 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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Migration of Contaminated Groundwater Under Control Environmental Indicator (EI) RCRIS Code (CA750) Page 2

2.	Is groundwater 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?				
		If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.			
	X	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):					

The Draft Risk Assessment, submitted by Safety-Kleen on April 13, 2000, and a DEQ file memo with attachments dated September 4, 2002, determined that current exposures to soil or groundwater do not exceed the Oregon DEQ acceptable risk level of 10⁻⁶ for individual constituents or 10⁻⁵ for cumulative risk. For noncarcinogens, none of the hazard indices for any potential receptors exceeds 1.0. On November 12, 2002, DEQ issued a no further action (NFA), certified completion of the Consent Order requirements, and closed the RCRA units at the site

^{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).

SAFETY KLEEN **INTERIM FINAL: OCT. 2000** Page 3 of 8

Migration of Contaminated Groundwater Under Control **Environmental Indicator (EI) RCRIS Code (CA750)** 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)?			
		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.		
Ration	ale and I	Reference(s):		

F

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.

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Migration of Contaminated Groundwater Under Control Environmental Indicator (EI) RCRIS Code (CA750) Page 4

	If yes - continue after identifying potentially affected surface water bodies.	
	If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an 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.	
Ratio	Rationale and Reference(s):	

SAFETY KLEEN INTERIM FINAL: OCT. 2000 Page 5 of 8

Migration of Contaminated Groundwater Under Control Environmental Indicator (EI) RCRIS Code (CA750) Page 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 ecosystems 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 key 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 ecosystem.	
	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.	

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

DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

INTERIM FINAL: OCT. 2000 RCRA CORRECTIVE ACTION

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SAFETY KLEEN

Migration of Contaminated Groundwater Under Control **Environmental Indicator (EI) RCRIS Code (CA750)** Page 6

	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 ecosystems), 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 ecosystems, 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 ecosystems.
	If unknown - skip to 8 and enter "IN" status code.
Ration	nale 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 ecosystems.

SAFETY KLEEN INTERIM FINAL: OCT. 2000 Page 7 of 8

Migration of Contaminated Groundwater Under Control Environmental Indicator (EI) RCRIS Code (CA750) Page 7

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?"			
		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.		
	Rationa	ale and Reference(s):		

SAFETY KLEEN INTERIM FINAL: OCT. 2000

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Migration of Contaminated Groundwater Under Control Environmental Indicator (EI) RCRIS Code (CA750) Page 8

8.	EI (event code CA750), and obt	us codes for the Migration of Contaminated Groundwater Under Contrain Supervisor (or appropriate Manager) signature and date on the priate supporting documentation as well as a map of the facility).				
	of the information contained in Contaminated Groundwater" is "Uhighway 212, Clackamas, Ohreasonably expected conditions "contaminated" groundwater is upontaminated groundwater remains	this EI determination, it has been determined that the "Migration Under Control" at the SAFETY KLEEN (OLD) located at 11843 SIR 97015 , Facility EPA ID #: ORD 092895481 , under current at Specifically, this determination indicates that the migration under control, and that monitoring will be conducted to confirm the ins within the "existing area of contaminated groundwater." The when the Agency becomes aware of significant changes at the facility.	of <u>E.</u> nd of at is			
	NO - Unacceptable migration of c	ontaminated groundwater is observed or expected.				
	IN - More information is needed to make a determination.					
Comp	oleted By:					
		9/25/02				
(Signati	ure)	(Date)				
Barb Puchy (Print Name)		Hazardous Waste Specialist (Title)				
Super	visor:					
(Signati	ure)	(Date)				
Andre (Print)	ee Pollock Name)	Manager, Hazardous Waste Compliance (Title)				
(EPA R	egion or State)					
Locat	ions where References may be four	d:				
	NWR DEQ					
Conta	act telephone and E-mail numbers:					
BILL (Name)	ROBERTSON, NWR	(503) 229-6843 <u>robertson.bill@deq.state.or.us</u> (Phone Number) (E-Mail)				
(Ivame)		(1 none ivamoer) (E-Matt)				