#### DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

Interim Final 2/5/99

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

## **Current Human Exposures Under Control**

Last Revised: July 2004

Facility Name: BEI/Philip Services Corporation - Washougal

Facility Address: 625 South 32<sup>nd</sup> St; Washougal, WA

Facility EPA ID: WAD 09230 0250

1.	Has <b>all</b> available relevant/significant information on known and reasonably suspected releases to soil, groundwater, surface water/sediments, and air, subject to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), been <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.

### **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

Current Human Exposures Under Control – RCRAInfo code CA725 BEI/Philip Services Corporation – Washougal, WAD 092300250, July 2004 Page 1 of 6 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 RCRAInfo national database ONLY as long as they remain true (i.e., RCRAInfo status codes must be changed when the regulatory authorities become aware of contrary information).

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

	Yes	No	?	Rationale/Key Contaminants
Groundwater	X			VOCs, Arsenic exceed MTCA Method B
				standards
Air (indoors) <sup>2</sup>			X	Soil vapor sampling and modeling data need to
				be reviewed
Surface Soil (e.g., <2 feet)		X		
Surface Water			X	
Sediment			X	
Subsurface Soil (e.g., >2 feet	X			VOCs exceed MTCA Method B standards
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.

Current Human Exposures Under Control – RCRAInfo code CA725 BEI/Philip Services Corporation – Washougal, WAD 092300250, July 2004 Page 2 of 6

<sup>&</sup>lt;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).

<sup>&</sup>lt;sup>2</sup> Recent evidence (from the Colorado Dept. of Public Health and Environment, and others) suggests 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.

#### Rationale and References:

<u>Groundwater</u>: Sampling results indicate that concentrations of PCE, 1,1-DCE, 1,2-DCE, cis-1,2-DCEvinyl chloride, benzene, 1,4-dioxane, and arsenic exceed MTCA Method B levels in groundwater underlying the property. Refer to **Annual Groundwater Analysis Report January - December 2002, April 15 2003, Philip Services.** 

<u>Indoor air</u>: Modeling based on soil vapor sampling under existing office/warehouse building was performed and data submitted in the **Revised Supplemental Remedial Investigation Technical Memorandum**, **July 2002 by Philip** in response to Ecology concerns and request for indoor air monitoring. A contaminated groundwater plume exists beneath the building. Refer to the annual groundwater report referenced above. Review of data is in progress.

<u>Subsurface soil</u>: Sampling results indicated that concentrations of PCE exceeded MTCA Method B standards at GP-15 (east side along former tank farm area), at four feet below ground surface (bgs). Refer to **Technical Investigation**, **Washougal Silt Investigation**, **November 1996**. Contaminated soil was left in-place along the west-side of the existing building footings (east side of former tank farm). Also, residual soil concentrations of PCE and vinyl chloride above MTCA Method B remain beneath the former tank farm at depths greater than four to six feet. (See **Final Interim Action Report**, **September 1998**, Figure 6-3.)

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"	Residents	Workers	Day Care	Construction	Trespassers	Recreation	Food3
Media							
Groundwater				No			
Air (indoors)		?					
Surface soil (e.g., <2							
feet)							
Surface Water						?	?
Sediment							
Subsurface soil (e.g.,							
>2 feet)							
Air (outdoors)	, in the second			No			

# 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).

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

Note: In order to focus the evaluation to the most probable combinations some potential "Contaminated" Media - Human Receptor combinations (Pathways) do not have check spaces (""). While these combinations may not be probable in most situations they may be possible in some settings and should be added as necessary.		
	If no (pathways are not complete for any contaminated media-receptor combination) - skip to #6, and enter "YE" status code, after explaining and/or referencing condition(s) in-place, whether natural or man-made, preventing a complete exposure pathway from each contaminated medium (e.g., use optional <u>Pathway Evaluation Work Sheet</u> to analyze major pathways).	
	If yes (pathways are complete for any "Contaminated" Media - Human Receptor combination) - continue after providing supporting explanation.	
_X_	If unknown (for any "Contaminated" Media - Human Receptor combination) - skip to #6 and enter "IN" status code	

Rationale and References:

Residences, day care, food not located in the vicinity.

<u>Current workers</u> should not be exposed to: 1) contaminated <u>groundwater</u> because the water is not used for drinking water, and 2) contaminated <u>soil</u> because the contaminated areas are either paved or in the area of the former tank farm area which was excavated to a depth of approximately four to six feet and backfilled during the silt removal interim actions. (Refer to **Final Interim Action Report, September 1998**.)

<u>Indoor air</u> may be a potential problem because contaminated groundwater and probably soil exist beneath the office/warehouse building. Groundwater levels are very shallow during the winter months. (Refer to **Draft Remedial Investigation Report, September 2000**.)

<u>Construction</u> and other corrective measure activities are not currently occurring on the site. Letters were sent to the City of Washougal and the Port of Camas to warn of potential worker exposure during work in the utility trenches under the adjacent roadway. Workers were encouraged to follow the appropriate precautions and Philip attached portions of their Health and Safety Plan for reference. (Refer to letters dated April 23, 2001, from Philip Services Corporation.)

<u>Trespassers</u> should not be exposed because the facility is fenced with a locking gate. The facility is currently operating as a private business.

Recreational and food pathway exposure is unknown because use in the adjacent 'waterway & slough' (Steigerwald Marsh and Gibbon Creek) is unknown. (Refer to the **Draft Remedial Investigation Report, September 2000**.)

4.	"significated"  1) greater acceptable magnitude	<b>nt"</b> (i.e., potentially "unacceptable" because exposures can be reasonably expected to be in magnitude (intensity, frequency and/or duration) than assumed in the derivation of the "levels" (used to identify the "contamination"); or 2) the combination of exposure (perhaps even though low) and contaminant concentrations (which may be substantially 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
5.	Can the "s	ignificant" <b>exposures</b> (identified in #4) be shown to be within <b>acceptable</b> 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
Rat	tionale and	References:
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<sup>&</sup>lt;sup>4</sup> If there I 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.

Current Human Exposures Under Control – RCRAInfo code CA725

BEI/Philip Services Corporation – Washougal, WAD 092300250, July 2004

event code (CA725), and obt	Alnfo status codes for the Current Human Exposures Under Control EI ain Supervisor (or appropriate Manager) signature and date on the EI ach appropriate supporting documentation as well as a map of the
review of the inf Exposures" are e	rent Human Exposures Under Control" has been verified. Based on a formation contained in this EI Determination, "Current Human expected to be "Under Control" at the
NO - "Current	Human Exposures" are NOT "Under Control."
_X_ IN - More infor	rmation is needed to make a determination.
Kaia Pet	signed by Kaia Petersen  ersen cologist/Acting Project Manager  DateJuly 2, 2004
K Seiler Hazardo	signed by K Seiler Date July 2, 2004_ , Section Manager us Waste and Toxics Reduction Program tent of Ecology, Southwest Regional Office
Locations where Referen	aces may be found:
300 Des	nent of Ecology, Southwest Regional Office mond Drive Washington 98503 7-6300
Contact telephone and e-	mail numbers
Kaia Pet (360) 40	

6.

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) RCRAInfo code (CA750)

# Migration of Contaminated Groundwater Under Control Last Revised: July 2004

**Facility Name:** BEI/Philip Services Corporation - Washougal **Facility Address:** 625 South 32<sup>nd</sup> St; Washougal, Washington

Facility EPA ID: WAD 09230 0250

1.	releases to Waste Man	ilable relevant/significant information on known and reasonably suspected the groundwater media, subject to RCRA Corrective Action (e.g., from Solid agement Units (SWMU), Regulated Units (RU), and Areas of Concern (AOC)), dered 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 #8 and enter"IN" (more information needed) status code.

#### **BACKGROUND**

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

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

## Definition of "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 groundwater 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 RCRAInfo national database ONLY as long as they remain true (i.e., RCRAInfo status codes must be changed when the regulatory authorities become aware of contrary information).

2.	protective standards,	water known or reasonably suspected to be "contaminated" above appropriately "levels" (i.e., applicable promulgated standards, as well as other appropriate guidelines, guidance, or criteria) from releases subject to RCRA Corrective Action, at, or from, the facility?
	_X_	_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.
Rat	ionale and	References:
DC: shal at o	E, vinyl chl llow ground ne deep mo	ampling results indicate that concentrations of PCE, 1,1-DCE, 1,2-DCE, cis-1,2-oride, benzene, 1,4-dioxane, and arsenic exceed MTCA Method B levels in the dwater underlying the property. Volatile organic compounds (VOCs) are detected onitoring well (MC-118D). (Refer to <b>Annual Groundwater Analysis Report ember 2002</b> , dated April 15 2003, prepared by Philip Services Corporation.)
3.	groundwat	<b>gration</b> of contaminated groundwater <b>stabilized</b> (such that contaminated er is expected to remain within "existing area of contaminated groundwater" as 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" <sup>2</sup> ).

<sup>&</sup>lt;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).

<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.

	_XIf no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination") - skip to #8 and enter "NO" status code, after providing an explanation.
	If unknown - skip to #8 and enter "IN" status code.
Rat	cionale and References:
	The external boundary of the shallow groundwater plume has not been fully delineated on the east side of the site. Groundwater flows across the site to the east and may be migrating offsite to the Steigerwald Lake National Wildlife Refuge. Groundwater may also be intercepted by the utility trench or trench backfill underneath the adjacent roadway and conducted northward to the Gibbons Creek Remnant Channel. (Refer to the <b>Annual Groundwater Analysis Report January - December 2002,</b> dated April 15, 2003, and the <b>Revised Supplemental Remedial Investigation Technical Memorandum</b> , dated July 8, 2002, by Philip Services Corporation.)
4.	Does "contaminated" groundwater discharge into surface water bodies?
	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.
Rat	cionale and References:
5.	Is the <b>discharge</b> of "contaminated" groundwater into surface water likely to be " <b>insignificant</b> " (i.e., the maximum concentration <sup>3</sup> 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 <sup>3</sup> 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 judgment/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.

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.

	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 <sup>3</sup> 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.
Ra —	tionale and References:
6.	Can the <b>discharge</b> of "contaminated" groundwater into surface water be shown to be " <b>currently acceptable</b> " (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 <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

2) providing or referencing an interim-assessment,<sup>5</sup> 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

referencing supporting documentation demonstrating that these criteria are not

exceeded by the discharging groundwater; OR

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

<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.

	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.
Rational	e and References:
data rem	Il groundwater <b>monitoring</b> /measurement data (and surface water/sediment/ecological a, as necessary) be collected in the future to verify that contaminated groundwater has nained within the horizontal (or vertical, as necessary) dimensions of the "existing area of taminated 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.
Rational	e and References:
Grou Man	ck the appropriate RCRAInfo status codes for the Migration of Contaminated undwater Under Control EI (event code CA750), and obtain Supervisor (or appropriate ager) signature and date on the EI determination below (attach appropriate supporting mentation as well as a map of the facility).
-	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
	EPA ID #, located at, Specifically, this
	determination indicates that the migration of "contaminated" groundwater is under control, and that monitoring will be conducted to

of cont	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.			
_XNO - expecte	Unacceptable migration of contaminated groundwater ed.	is obs	erved or	
IN - M	More information is needed to make a determination.			
Completed by	Original signed by Kaia Petersen  Kaia Petersen  Hydrogeologist/Acting Project Manager	Date _	July 2, 2004	
Supervisor	Original signed by K Seiler K Seiler, Section Manager Hazardous Waste and Toxics Reduction Department of Ecology, Southwest Regional Office	_Date _	_July 2, 2004	
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