

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAY 3 1993

OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE

MEMORANDUM

SUBJECT: Preliminary Assessment/PA) Review Checklist

FROM:

Janet Grubbs, Chief

Site Assessment Branch (OS-5204G)

TO:

Federal Facility Contacts

I am providing the attached PA review checklist as a supplement to the <u>Guidance for Performing Preliminary Assessments</u> <u>Under CERCLA</u> (EPA/540/G-91013, September 1991) that you had previously received.

This checklist summarizes the most important factors that each PA may need to evaluate and each PA report may need to address. Anyone conducting a PA can use this checklist to ensure the adequacy of the PA report. Likewise, PA reviewers can use the checklist as a review guide.

If you have any comments or questions on this checklist, please call John Hollister at (703) 603-8835.

Attachment.

cc: Don Franklin (OFFE)

Site Assessment Section Chiefs (Regions 1 - 10)

PA REVIEW CHECKLIST

Site Name:

CERCLIS ID No.:

Location (City, County, State):

Prepared by (Agency):

Date:

Reviewer Name:

Agency:

Document Reviewed: (PA Report/Scoresheets/Both)

Date of Review:

Site	Name:		
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PA REPORT REVIEW CHECKLIST

The preliminary assessment (PA) review checklist was designed to evaluate the quality of PA work products. The review will ensure that EPA decisions concerning the disposition of sites are made in a nationally consistent, scientifically based, and efficient manner.

The order in which information is presented in the PA does not have to be consistent with the checklist, but the PA should be organized in a logical sequence and consistent with PA guidance. Relevant pages of the PA guidance manual (Guidance for Performing Preliminary Assessments Under CERCLA, OSWER Directive 9345.0-01A, September 1991) are provided in parentheses throughout the checklist.

All factual information should be referenced in the PA report and PA scoresheets with page numbers provided. The reviewer should place a checkmark in the "Ref(s) Checked" column when information is verified in the references. If the information is not supported by the reference material or the information is not referenced, the reviewer should place an NS (not supported) in this column. The reviewer may write in the space provided and attach sheets as necessary.

The reviewer should indicate in the left column whether the following information is included in the PA narrative by placing a Y (yes), N (no), or NA (does not apply to the site) in the space provided. Place an I (incomplete) in the left column for information that is included but is not complete, and an S (scoresheets) if the information is included in the scoresheets but not in the PA report. The bold, italicized areas highlight several critical factors.

This checklist and the PA guidance manual can be ordered from the National Technical Information Service (NTIS) by calling 703-487-4650. To order both documents, the order number is PB92-963303. The checklist by itself is order number PB93-963342.

I.	PA Content	
		•
	duction the PA include the following information:	Che
	Agency/name of organization performing PA (p. 145)	
	Authority under which PA was conducted (p. 145)	
	Site name (p. 14)	
	Site alias (names other than that entered in CERCLIS) (p. 15)	
	Site address (street, city, county, state) (p. 145)	
	CERCLIS ID number (p.15)	
	Site name and ID number identical to CERCLIS entry?	
	Purpose of PA (p. 145)	
	RCRA status (p. 16)	
Com		
	PA activities include:	
File :	review? (pp. 21-23) Y/N et survey? (pp. 31-32) Y/N	
laro		
Site	reconnaissance? (pp. 27-29) Y/N	
Site	reconnaissance? (pp. 27-29) Y/N	

Site Name:____

	Location/Description
Does	the PA include the following information:
	Geographic coordinates (latitude/longitude) (p. 40)
	Worksheets for latitude/longitude coordinate calculations (p. 40)
	Site setting/nearby land use (Appendix D, p. 4)
	Type of site (e.g., plating facility, landfill) (p. 41)
	Site status (active/inactive) (p. 14)
	Years of operation (p. 40)
	Current site activities/use (p. 145)
	Current disposal/storage practices (p. 40)
	Source characterization (active, inactive, and historical sources) (p. 42)
	Description (p. 43)
	Dimensions (p. 14)
	Known or suspected wastes and hazardous substances (p. 40)
	Description of containment and condition (p. 40)
	Size of site (p. 14)
	Site accessibility (identification of access restrictions, natural barriers)
	Site location map (p. 145) and other figures
	1-mile source radius (pp. 23, 145)
	Overland drainage route(s) (p. 145)
	Probable point of entry (PPE) to surface water (Appendix C, p.
	Nearest well, intake, residence (p. 145)
	Sensitive environments (p. 145)

Site Name:___

	Site Name:	
	Site sketch (p. 44)	
	Major structures (e.g., buildings, paved areas, fences) (p. 44)	
	Source areas (p. 44)	
Comi	ments:	
		Ref(s)
	ational History and Waste Characteristics the PA adequately include the following information:	hecked?
	Ownership (public/private/other) (p. 40)	
	Current owners, address(es), and dates of ownership (p. 40)	
	Current operators, address(es), and dates of operation (p. 40)	
	Former owners, address(es), and dates of ownership (p. 40)	
	Former operators, address(es), and dates of operation (p. 40)	
	Description of historical site activities (p. 40)	
	Description of wastes generated on site (p. 40)	
	Historical disposal/storage practices (p. 40)	
	Historical information on spills (p. 40)	
	Past source areas (if a removal has occurred) (p. 40)	
	Removal actions, including descriptions, dates, agencies that conducted the removal, and destination of wastes removed (p. 145)	
	Known/estimated waste quantity (i.e., constituent, wastestream, volume, and area, as applicable) for each source (pp. 44-51)	
—	Information on permits, including issuing agency, date, discussion of inspection results, permit numbers, and violations (p. 145)	
	Information on other regulatory agency involvement (p. 145)	

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	Site Name:	
	Other investigations, including identification of investigating agency, date, and results (pp. 21-30)	
	Previous sampling, if any, including discussion of analytical data and summary of results (p. 145)	
Comn	nents:	
Crour	nd Water Pathway	Ref(s) Checked?
	the PA include the following information:	<u>CHECKEU:</u>
	Physiographic province underlying site/sources	
	Depth to shallowest aquifer (p. 56)	
	Permeability of strata overlying shallowest aquifer (p. 145)	
	Net precipitation (p. 54)	
	Identification of aquifers in order of increasing depth (p. 145)	
	Aquifer description, including use, thicknesses, general flow direction (p. 145)	
	Confining layers (p. 145)	
	Aquifer interconnections within 4 miles of the site (or within 2 miles if source boundaries are well defined) (p. 145)	
	Aquifer discontinuities within 4 miles of the site (p. 145)	
	Karst features (if non-karst, this should be stated) (pp. 55, 57-58)	
	Citizen complaints	
	Well closures (p. 26)	
	- •	

	Site Name:	····
Co	mments:	
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	sufficient information provided to assess the likelihood of a release of lestances to ground water? (pp. 53-58) Y/N	hazardo
	-	
C01	mments:	
		
	•	
		
		Re
	ound Water Targets	<u>Check</u>
ls t	he following ground water target information included:	
	_ Distance to nearest drinking water well (p. 73)	_
	_ Description of municipal and stand-by wells, including location/	
	distance from site, depth of well/aquifer from which water is drawn (pp. 14, 62-65)	
	_ If municipal and stand-by wells are part of a blended system,	
	total number of wells/intakes that contribute to the overall	
	system and the percent contribution of each well/intake within the target distance limit (pp. 62-64)	
	_ Populations served by municipal well(s), including stand-by wells,	
	by distance category within 4 miles of the site (pp. 14, 62-65)	
	Description of private wells within 4 miles of the site,	
	including aquifer(s) from which water is drawn and associated population per distance category (pp. 14, 65)	
	Other uses of ground water (e.g., irrigation, industrial) (p. 75)	
	_ Wellhead Protection Areas (p. 74)	

Com	ments:	
Com	ments:	
infor	resented, does the ground water population description provide enough mation to A calculate an HRS target value? (pp. 68-75) Y/N ments:	1
	the PA include the following information:	Che
	the PA include the following information:	
	the PA include the following information: Sketch of surface water migration path indicating probable	
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146)	
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	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including	
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including permit information) Distance to surface water (p. 81)	
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including permit information) Distance to surface water (p. 81) Floodplain designations/flood frequency (p. 83)	<u>Che</u>
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including permit information) Distance to surface water (p. 81) Floodplain designations/flood frequency (p. 83) Surface soil type and permeability of overland drainage route (p. 79)	<u>Che</u>
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including permit information) Distance to surface water (p. 81) Floodplain designations/flood frequency (p. 83) Surface soil type and permeability of overland drainage route (p. 79) Drainage area description (p. 79)	<u>Che</u>
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including permit information) Distance to surface water (p. 81) Floodplain designations/flood frequency (p. 83) Surface soil type and permeability of overland drainage route (p. 79) Drainage area description (p. 79) 2-year, 24-hour rainfall (p. 79)	<u>Che</u>
	the PA include the following information: Sketch of surface water migration path indicating probable point of entry (PPE) and target locations (pp. 82, 86-88, 146) Facility discharges to surface water (including permit information) Distance to surface water (p. 81) Floodplain designations/flood frequency (p. 83) Surface soil type and permeability of overland drainage route (p. 79) Drainage area description (p. 79)	<u>Che</u>

	Site Name:	
	Visual signs of contamination (e.g., oily sheen, stressed vegetation, sediment discoloration, absence of wildlife) (pp. 80, 95)	-
	Fishery, intake, and/or surface water recreational area closures (p. 95)	
Com	ments:	
•	ficient information provided to assess the likelihood of a release of ances to surface water? (pp. 78-85) Y/N	hazardous
	nents:	
	· · · · · · · · · · · · · · · · · · ·	Ref(s)
	ce Water Targets following surface water target information included:	Checked?
	Identification and location of drinking water intakes, including standby intakes (p. 88)	
	Population served by each intake (apportioned population if the intake is part of a blended system) (p. 90)	
	Description and location of fisheries (p. 91)	
	Organisms fished	
 .	Other uses of surface water (p. 102)	
	Description and location of sensitive environments in or contiguous to the surface water migration path (p. 92)	

	Site Name:	
_	Wetland frontage (p. 93)	
Comr	ments:	
inform 90, 94 Y/N/N	resented, does the surface water population description provide enough mation to calculate an HRS target value for the drinking water threat? ppl-102) Y/N/NA For the human food chain threat? (pp. 91-92, 103-104) NA For the enviro ental threat? (pp. 92-93, 105-107) Y/N/NA	()
Comn	nents:	
		R
	xposure Pathway the PA include the following information:	<u>eck</u>
	Identification of known/suspected areas of contamination (pp. 110-111)	_
	Discussion of previous surface soil sampling, including analytical data and summary of results (p. 145-146)	
	Attractiveness/accessibility of areas of contamination	_
Soil E	xposure Targets	
	following soil exposure target information included:	
	Residences, schools, and day care centers and associated populations within 200 feet of an area of known/suspected contamination (or within 200 feet and on the property of an area of contamination if boundaries of the are rewell defined) (p. 118)	
	Work areas and number of workers on site within 200 feet of an area of known/suspected contamination (p. 115)	_

	Use of site/areas of contamination (i.e., resources) (p. 123)	
	Terrestrial sensitive environments located on an area of known/suspected contamination (pp. 116, 122)	
 _	Nearby population within a 1-mile travel distance in 0 to 1/4 mile, >1/4 to 1/2 mile, and >1/2 to 1 mile distance categories (p. 124)	
Comm	nents:	0
inforn	esented, does the soil exposure population description provide of the nation to calculate a resident population target value? (pp. 118) IA Nearby population target value? (p. 124)	
Comn	nents:	
Air Pa	athway the PA include the following information:	Ref(s) <u>Checked?</u>
Air Pa	<u>athway</u>	` '
Air Pa	athway the PA include the following information:	` '
Air Pa	athway the PA include the following information: Direct observation of substances released to air (p. 127) Site reconnaissance safety monitoring instrument (HNu,	` '
Air Pa	athway the PA include the following information: Direct observation of substances released to air (p. 127) Site reconnaissance safety monitoring instrument (HNu, OVA) results	` '
Air Pa	athway the PA include the following information: Direct observation of substances released to air (p. 127) Site reconnaissance safety monitoring instrument (HNu, OVA) results Description of cover material/containment (p. 40) Discussion of previous air sampling, if any, including	` '

	Site Name:	
	Known reports of adverse health effects associated with a suspected/known release (p. 127)	-
Comn	nents:	
	· · · · · · · · · · · · · · · · · · ·	
	ficient information provided to assess the likelihood of a release of lances to air? (p. 126-130) Y/N	hazardo
	nents:	
		·····
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Air Ta		
	following air target information included: Distance to nearest residence or regularly occupied	
	following air target information included:	
Is the	following air target information included: Distance to nearest residence or regularly occupied building (p. 137) Population within ⁰ to 1/4 mile, >1/4 to 1/2 mile, >1/2 to 1 mile,	
Is the	following air target information included: Distance to nearest residence or regularly occupied building (p. 137) Population within ⁰ to 1/4 mile, >1/4 to 1/2 mile, >1/2 to 1 mile, >1 to 2 miles, >2 to 3 miles, and >3 to 4 miles (pp. 131-132)	
Is the	following air target information included: Distance to nearest residence or regularly occupied building (p. 137) Population within ⁰ to 1/4 mile, >1/4 to 1/2 mile, >1/2 to 1 mile, >1 to 2 miles, >2 to 3 miles, and >3 to 4 miles (pp. 131-132) Resources within 1/2 mile of the site (p. 140) Identification and location of sensitive environments within	
Is the	following air target information included: Distance to nearest residence or regularly occupied building (p. 137) Population within 1 to 1/4 mile, >1/4 to 1/2 mile, >1/2 to 1 mile, >1 to 2 miles, >2 to 3 miles, and >3 to 4 miles (pp. 131-132) Resources within 1/2 mile of the site (p. 140) Identification and location of sensitive environments within 1/2 mile of the site (pp. 138-139)	F Chec

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Com	ments:
	odocumentation Log
	photos of the site, accompanied by a written description and reference to the on on a site map, included as an attachment to the PA report? (p. 147)
Y/N_	
	nents:
Com	NCMO:
	<u>mentation</u>
	mentation he following references included with the report?
	he following references included with the report?
Are the	he following references included with the report? Topographic map with 4-mile radius indicated (p. 23) Population apportionment and calculation worksheets (Appendix C, p. 30)
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Are statements in	n the narrative supported by the references cited? Y/N
Comments:	
	
Are nage number	rs provided in reference citations? Y/N
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Comments:	
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	y vide sufficient information for SI planning? Y/N
Does the PA pro	vide sufficient information for SI planning? Y/N
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	Site Name:
D ir A	oes the PA sufficiently address all pathway characteristics that could significantly pace the site decision? Y/N All target information? Y/N Il site operational information? Y/N
<i>C</i>	omments:
_ _ A	re wastes adequately characterized based on available information? (pp. 44-51)
	/N
С	omments:
in	rid the PA highlight concerns that may not be addressed by HRS factors? (e.g., nminent explosion potential, Emergency Response notification) Y/N/NAomments:
_	
	the information presented in the PA report consistent with the information rovided in the preliminary HRS scoresheets? Y/N
C	omments:
_	الموادية الم

	priate for the site? Y/N/NA
Comm	ents:
Is the	designation of primary and secondary targets appropriate for significant ially significant pathways? Y/N
Comm	ents:
	he PA provide sufficient information to support a recommendation? Y/N_
Does 1	he reviewer agree with the PA recommendation? (i.e., SEA, H, or L) Y/N_
~	ents:

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4/28/93