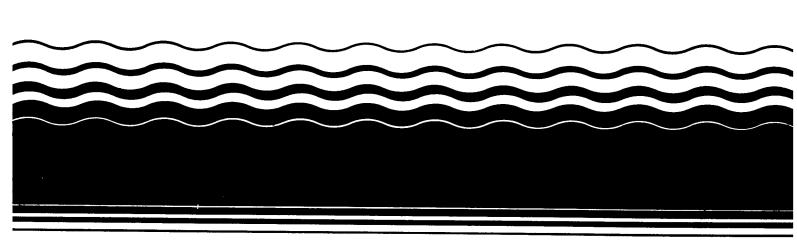


> NK

PA-Score Software

Users Manual and Tutorial Version 1.0



PA-Score Software USERS MANUAL & TUTORIAL

VERSION 1.0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Solid Waste and Emergency Response
Office of Emergency and Remedial Response
Hazardous Site Evaluation Division
Washington, DC 20460



NOTICE

The procedures set forth here are intended as guidance to employees of the U.S. Environmental Protection Agency (EPA), States, and other government agencies. EPA officials may decide to follow the guidance provided in this directive, or to act at variance with it, based on analysis of specific site circumstances. EPA reserves the right to modify this guidance at any time without public notice.

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CHAPTER 1

GETTING STARTED

1.1 Introduction: PA-Score Software Package

The PA-Score software package is comprised of the PA-Score and PA-Print computer programs and this users manual. The PA-Score software package has been developed by EPA Headquarters to assist preliminary assessment (PA) evaluations by generating an upper bound estimate of the Hazard Ranking System (HRS) score and associated documentation for a site.

The PA-Score computer program (PA-Score) assists investigators in meeting PA evaluation requirements. PA-Score performs PA calculations from raw data to calculate site scores. The PA-Print computer program (PA-Print) generates PA scoresheets and the Potential Hazardous Waste Site Preliminary Assessment form. The users manual provides instructions to install and use PA-Score and PA-Print.

1.2 PA-Score Computer Program

PA-Score is the principle component of the PA-Score software package. PA-Score was designed to:

- Computerize the scoring system for the PA
- Provide a user-friendly menu screen system for completing site scores
- Minimize mathematical scoring errors
- Provide a useful tool for PA scenario scoring

PA-Score facilitates evaluation of site-related information including waste quantities and waste characteristics, physical parameters of the site, population data, and sampling information. In addition, PA-Score allows the user to enter administrative and site characteristics information onto EPA's Potential Hazardous Waste Site Preliminary Assessment form, which has been incorporated into PA-Score programming. Through PA-Score, most of the required information concerning a PA site is contained in a single site file (electronic or paper). PA-Score also allows the user to fully document site scoring using a documentation editor and referencing feature. The user can enter descriptive narrative rationales for scoring decisions and can reference the documents from which data were generated for scoring.

PA-Score requires the user to be familiar with PA guidance (<u>Guidance for Performing Preliminary Assessments Under CERCLA</u>, OSWER Directive 9345.0-01A); however, help screens are available throughout the program to offer instruction in entering data and program usage. In addition, the structure of PA-Score data entry is diagrammed in Appendix A. These diagrams help identify user location within the program. PA-Score is not intended as a substitute for PA training or guidance. Rather, it is intended to facilitate the evaluation of a site and preparation of site documentation.

1.3 Users Manual & Tutorial

The user's manual consists of three parts. Chapter 1, "GETTING STARTED," introduces you to the software package and takes you through the procedures necessary to install the PA-Score software on your computer. Chapter 2, "TUTORIAL," provides an initial step-by-step lesson in the use of PA-Score by "walking" you through a series of screens, entering and editing data. Chapter 3, "PRINTING," provides instruction in the use of PA-Print, which performs printing functions for PA-Score information.

This manual assumes you have some familiarity with the IBM PC-type platform. Evaluation of a site with PA-Score requires little, if any, knowledge of the Disk Operating System (DOS). However, limited use of

DOS will be necessary to install PA-Score software onto your computer, and to maintain the site files you create. In addition, technical knowledge of your printer may be necessary to produce quality printouts using PA-Print. If you are unfamiliar with DOS, consult with others in your office for basic instruction. If you are unfamiliar with your printer, contact your systems administrator.

The tutorial is designed to show how best to use the PA-Score and PA-Print programs. It is not intended to provide instruction on conducting PA's. PA guidance has been developed by EPA to provide instruction in performing PA evaluations. The example site file used in the tutorial is entirely fictitious.

If you have questions or comments regarding the operation of the PA-Score and PA-Print programs, contact your EPA Regional computer contact.

1.4 Hardware Requirements

PA-Score software requires an IBM PC or compatible computer. Specific minimum hardware requirements are as follows:

- 384K of RAM (random access memory)
- 1.0MB of available memory
- MS-DOS 3.1.

Site files may be saved/stored on double-density or high-density diskettes (3.5" or 5.25"). However, due to their size, the programs can only be run from a high-density diskette or a hard drive. PA-Print will support most printers (EPSON, IBM, Hewlett-Packard) and printer types (dot-matrix, laser).

EPA recommends that PA-Score and PA-Print be run from a hard disk as this greatly enhances each program's operation and calculation speed. PA-Score site files may be kept on either the hard disk or a floppy diskette.

PA-Score and PA-Print were designed as single-user interactive programs. Therefore, their local area network (LAN) compatibility is limited. The programs cannot be used as a multi-user application; however, they can be loaded into a LAN environment and used by one user at a time (see Appendix B).

1.5 Software Installation

To install PA-Score and PA-Print, start from the DOS prompt. The DOS prompt will consist of a letter (the disk drive currently active) often followed by a colon, backslash, and/or names of subdirectories on your disk (A>, C:\>, C:\FILES> are some examples of DOS prompts). If you do not see the DOS prompt, you may be using one of numerous menu "shell" programs (LAN users see Appendix B for installation instructions). Most LANs have an "Exit to DOS" option that will allow you to operate from the DOS prompt. The hard disks on many computers that use menu software have a certain subdirectory structure that is maintained by a systems administrator. If you are unfamiliar with how your particular computer is set up, consult your systems administrator.

To install PA-Score and PA-Print on a hard disk.

Insert the PA-Score Software diskette into drive A:, then type A: and press the <ENTER>
key. If drive B: is the correct size and format for the PA-Score Software diskette, then
type B: and press the <ENTER> key.

- 2. At the A> prompt (or B> prompt if you are using drive B:), type INSTALL and press the <ENTER> key. A subdirectory named C:\PASCORE will be created and all files needed to run PA-Score and PA-Print will be copied into that subdirectory.
- 3. To start the programs, type PASCORE or PAPRINT at the C:\PASCORE prompt, then press the <ENTER> key.

After installation, compare the contents of the PASCORE subdirectory you created with the list of "PASCORE Subdirectory Files" given in Appendix C. If the two do not correspond, perform the installation procedures again or contact your systems administrator. If the contents of the enclosed PA-Score Software diskette do not correspond to the list of "PA-Score Software Diskette Files" given in Appendix C, contact your EPA Regional computer contact.

If you must run PA-Score and PA-Print from a floppy diskette, insert the PA-Score Software disk in drive A:. Type PASCORE at the A> prompt to access PA-Score or type PAPRINT to access PA-Print.

1.6 File Management

PA-Score file management includes site file naming conventions, maintenance, and security. Site file names can be made of up to eight characters (do not include spaces in the file name). EPA suggests that the first eight letters of the official site name be used; however, your office may want to develop naming conventions based on site identification numbers, cost accounting codes, etc. The site's full name (up to 29 characters) and CERCLIS number will be displayed (as you entered them) on the PA-Score file system screen to allow for additional identification. Note that you will not be able to alter the ".PAS" suffix in the site name while in the PA-Score program. PA-Score uses this suffix to identify a file as a PA-Score file. Any site file with a different suffix will not be accessible by PA-Score (or PA-Print).

A plan for the maintenance of PA-Score site files should be established. EPA recommends that site files be maintained on both floppy diskette and hard disk. While PA-Score evaluation of a site is in progress, the site evaluator should retain a floppy diskette copy of the site file. Upon completion of PA-Score evaluation, a floppy diskette copy of the site file should be included with the site report and PA-Score printout. In addition, a protected (see security below) copy of the site file should be maintained in the PASCORE subdirectory on the hard disk with other completed PA-Score site files.

PA-Score includes a password protection feature to ensure the security of site data (see Section 2.2).

CHAPTER 2

TUTORIAL

2.1 Introduction: PA-Score Computer Program

This chapter provides instruction in the basic operation of PA-Score by taking you through a series of screens and by providing examples of how to enter and edit data. Certain conventions are used in describing required user actions (what you must do). Words appearing in boldface indicate specific keyboard actions. The words <ENTER>, <END>, <HOME>, <Delete>, <Insert>, <PgUp>, <PgDn>, and <F1>, <F2>, <F3>, etc., indicate individual keys that you must press. Four additional keys which you will often use are called the *cursor keys*, and are marked on your keyboard by arrows pointing up, down, left, and right. These are used to move the *cursor* or *highlight* to a particular point on the screen. The phrase "CURSOR to the Targets column for the Air Pathway" means "use the appropriate cursor key(s) to move the highlight to the Air Pathway Targets value." In cases where words or numbers are to be typed, actions will be indicated by phrases such as "Type landfill #1" meaning "type the words 'landfill #1'."

If you have correctly followed the procedures listed under Section 1.5, "Software Installation," you should be able to access PA-Score. To begin...

Type PASCORE.

Press < ENTER >.

You should now see the PA-Score title screen shown below:

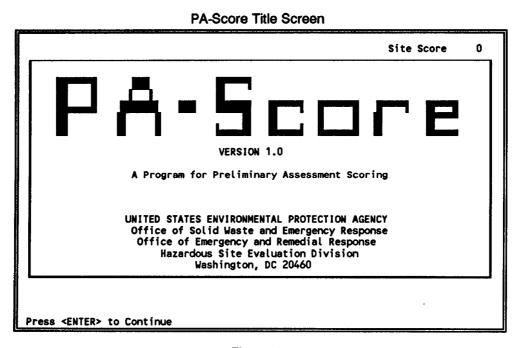


Figure 1

If you do not see the PA-Score title screen, return to the software installation section.

To continue from the PA-Score title screen...

Press < ENTER >.

General Information Screen

GENERAL INFORMATION

EPA developed PA-Score to assist site assessment investigators by automating preliminary assessment (PA) evaluation scoring.

PA-Score performs PA scoring calculations from raw data entered by the user and allows site investigators to easily test different scoring scenarios. PA-Score can also be used to generate PA scoresheets, documentation, and EPA's Potential Hazardous Waste Site Preliminary Assessment form.

For program assistance consult the PA-Score Software "Users Manual & Tutorial" or call your EPA Regional computer contact.

Press <ENTER> to Continue

Figure 2

This screen provides some general information concerning the functions of PA-Score. To continue with PA-Score...

Press < ENTER >.

2.2 File System

You should now be at the PA-Score file system screen shown below:

n Site Score PA-Score Data Files -> C:\PASCORE\ Date Time Size Site Name **CERCLIS Number** 14264 Palmetto Landfill SCD123456789 PALMETTO 08/17/91 16:58 ENTER-Select F2-Chdir F3-New File F4-Copy F5-Passwd F6-Delete End-Exit

File System Screen

Figure 3

The file system enables you to create, select, save, delete, copy, or password protect PA-Score site files in any directory or on diskette. Information in the directory includes filenames, dates and times that the files were last saved, and file sizes (in bytes). To the right of the middle bar is the name of each site and its CERCLIS number (as you have entered them). You should apply a standard method for naming site files. Section 1.6 of this manual discusses file management.

The <u>status line</u> at the bottom of the screen indicates which actions and functions are available from a screen (in this case, <F3> function key to create a new file, <F6> function key to delete a file, and so on). The status line also provides brief user instructions (on-screen help), such as: "Enter Data" and "ENTER-Select."

One of the functions displayed on the status line for the file system screen is "F5-Passwd." PA-Score allows the user to password protect site files. The password protection feature is accessed from the file system screen using the <F5> function key. You may protect a site file at any stage in a PA-Score evaluation. The password protection is activated the first time you exit PA-Score after having selected a password. The next time anyone enters the program and attempts to access the protected site file they are prompted for the password. If they do not provide the correct password, access to that site file is denied. A password may be up to eight characters in length and cannot be changed once assigned.

To retrieve the file for this tutorial...

CURSOR to the PALMETTO filename. **Press <ENTER>**.

2.3 General Operation

You should now be at the Summary Screen, the "main menu" of PA-Score:

	PA-S	core Version	1.0	
Pathway	Likelihood of Release	Targets	Waste Characteristics	Pathway Score
Ground Water	550	246	32	52
Surface Water Drinking Water Human Food Chain Environmental	550 550 550	5 300 300	32 32 32 32	100 1 64 60
Soil Exposure Resident Nearby	550	5 1	18	2 1 1
Air	500	52	18	6

Figure 4

The Summary Screen is a menu with choices of factor categories within pathways (or threats for Surface Water and Soil Exposure) such as Air Pathway Likelihood of Release, Ground Water Pathway Likelihood of Release, Drinking Water Threat Targets, etc. As you move the cursor around this screen (using the cursor keys), notice that if you try to enter a number, PA-Score "beeps" to alert you that data entry is inappropriate at your location. Note that whenever the cursor is a solid "block" (on some monochrome screens it will appear as an underline), PA-Score is displaying a <u>calculated value</u>, one that cannot be overwritten or entered directly by the user and can only be changed by editing "raw" data.

Note that when you start a new file, only zeros will appear on this screen until you enter data. Because the PALMETTO file already has data entered, you see the scores displayed above. The "ENTER-Select" prompt on the status line (in the lower left corner of the screen) indicates that you must press **ENTER** if you want to enter new data or edit previously entered data. For example...

CURSOR to the "Targets" column for the Air Pathway. Press **<ENTER>** to select the item.

By selecting Air Pathway Targets, the following is displayed:

Air Targets Screen

Palmetto Landfill	PALMETTO	.PAS Site	Score 56
Air Pathway -> Targets			
TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	6	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONMENTS	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	21	
8. RESOURCES	0	5	
Τ =	0	52	
_			

Figure 5

You can now see factor-category and factor-level detail of the Air Pathway Targets value that was displayed on the Summary Screen. Note that choosing an item from the Summary Screen takes you from general information to specific. This is the concept behind operation of the PA-Score program--a hierarchy of menus with the Summary Screen at the apex. Appendix A provides diagrams of the structure of PA-Score which portray the relative position of PA-Score data-entry screens. If you become "lost" in the program, these diagrams can help you locate your position in the hierarchy of screens.

As you can see, the cursor is located at the Secondary Target Population value position and is not flashing. Also, the status line prompt in the lower left corner of the screen says "ENTER-Select." This means that you should press <ENTER> to access another screen to enter data for this factor. To enter data for Secondary Target Population...

Press < ENTER >.

Air Secondary Target Population Screen

Air Pathway -> Targets -> Secon			
Distance Categories	Population	References	Value
Onsite	0	7,18	0
Greater than 0 to % mile	32	7,18	1
Greater than ¼ to ½ mile	40	7,18	1
Greater than ½ to 1 mile	188	17,18	1
Greater than 1 to 2 miles	437	17,18	1
Greater than 2 to 3 miles	2560	17,18	1
Greater than 3 to 4 miles	4732	17,18	1

Figure 6

Notice that the cursor at the population position is flashing. In addition, the status line prompt says "Enter Data." This means that you may enter data at this location. If you are uncertain which people can be evaluated for this factor, use the <F10> key to access help screens which provide basic information and instructions about each factor. Help is available throughout the program.

Press <F10>.

Air Secondary Target Population Help Screen

Air Pathway Secondary Population Table In "Population" column enter number of people located in each distance category.
 In "References" column, enter the number(s) of the reference(s) that document the secondary populations.

After entering data for all secondary populations, press <END> to return to Air Targets Summary Screen. N.A. will automatically be displayed for the distance categories up to 1/4 mile if a release is suspected. Primary targets are any residents, workers, and students on or within 1/4 mile of the site. **Press any key to exit Help**

Figure 7

To exit the help screen...

Press any key.

To enter population data...

CURSOR to the "Onsite" distance category value. Type **50**. Press **<ENTER>**.

Notice that in the far column a recalculation is instantly performed giving you the new population value for that distance interval. Also note that a "References" column appears here and on other data entry screens.

2.3.1 Reference Feature

To record a new reference...

CURSOR to the references column of the "Onsite" distance category. Type 1.

CURSOR one space to the right (the cursor will stop flashing).

Note that the status line (bottom left of screen) says "F2-Edit References."

Press <F2>.

The reference list will appear displaying previously entered references. Note that Reference 1 is the U.S. Geological Survey topographic maps of the area. Reference citations are entered by typing directly into the three line space opposite the "No." column. The citation is restricted to three lines of text. References may also be deleted (reference numbering will not be affected by the deletion), with the message "reference deleted" displayed in the location of the deleted reference. (Entry of more than 75 references may cause memory overload difficulties which could cause the system to terminate.)

Reference List

Palme	etto Landfill	PALMETTO.PAS	Site Score	56
No.	PA-Score Reference Li	ist -> References		
1	U.S. Geological Survey, 7.5 South Carolina; Angleton, 1 Winchester, 1975; Danvers,	1963, photorevised 1983; Pa		
2	U.S. Environmental Protecti Determine Site Latitude and worksheet for Palmetto Land	l Longitude Coordinates," 1		
3	U.S. Department of Commerce States, 1983, pp. 7, 10.	e, "The Climatic Atlas of t	he United	
4	Jennifer Doe, Manager for S conversation with Joe Brown Palmetto Landfill Operation	n, XYZ Corporation, May 1,	rvices, teleph 1991. Re:	one
5	Joseph Brown, XYZ Corporati Landfill Preliminary Assess		of Palmetto	
nter	Data	F1	0-Help End-Pr	eviou

Figure 8

The <PgUp>, <PgDn>, and cursor keys are used for moving through the list of references. To exit the reference list...

Press <END>.

To return to the Summary Screen...

Press <HOME>.

At this point, note the importance of the <END> and <HOME> keys. Pressing <END> from any place in the program moves you one screen back in the program hierarchy; pressing <HOME> returns you to the Summary Screen.

0.....

PA-Score Version 1.0							
Pathway	Likelihood of Release	Targets	Waste Characteristics	Pathway Score			
Ground Water	550	246	32	52			
Surface Water Drinking Water Human Food Chain Environmental	550 550 550	5 300 300	32 32 32 32	100 1 64 60			
Soil Exposure Resident Nearby	550	5 1	18	2 1 1			
Air	500	57	18	6			

Figure 9

As you can see, the Summary Screen displays the new Air Targets value from the scoring information you entered.

2.3.2 Preliminary Assessment Form

Note the status line and the "<F9>-Info" function. Every time you create a new site file you should <u>first</u> enter site administrative and characteristics information. To enter this information...

From the Summary Screen...

Press <F9>.

Page one of the Potential Hazardous Waste Site Preliminary Assessment Form (Preliminary Assessment form) will appear (see next page).

Preliminary Assessment Form

Γ	Palmetto	Landfill		PALMETTO.PA	s	Site	Score	57
		POTENTIAL HAZARDOUS			IDE	NTIFI	CATIO	ı
	ļ	WASTE SITE			State: SC		LIS No 123456	
		PRELIMINARY ASSESSMEN	T FORM		CERCLIS	Disco 5/10/9		ate:
	1. Gener	al Site Information		•				:
	Name: Palmett	o Landfill		Street Addr 6250 Palme		,		
	City: Angleto	n	State: SC	Zip Code: 22222	County: Palmett		Co. Code: 12	Cong. Dist: 21
		: Longitude: 43.0" 66° 7' 33.0"		Area of Site: 10 acres	Status Inacti		te:	
	Enter Data		•		PgDn-	Next	End-F	revious

Figure 10

The Preliminary Assessment form allows you to type in site information and to choose characteristics from pop-up menus for certain standard items. For example...

CURSOR to "Status of Site". Press **<ENTER>**.

The following pop-up menu will appear:

Preliminary Assessment Form Pop-Up Menu

Palmetto Landfill		PALMETTO.PA	s	Site	Score	57
POTENTIAL HAZARDOUS			IDE	NTIF	CATIO	l
	atus of S	ite —	State: SC		CLIS No 123456	
PRELIMINARY ASS Inac	tive Specified		CERCLIS	Disco 5/10/9		ate:
1. General Site Informa	GW plume,	etc.)				
Name: Palmetto Landfill		Street Addre 6250 Palme		;		
City: Angleton	State: SC	Zip Code: 22222	County: Palmett		Co. Code: 12	Cong. Dist: 34
Latitude: Longitude: 18° 28' 43.0" 66° 7' 33.0"		Area of Site: 10 acres	Status Inacti		te:	
ENTER-Select	•	•	PgDn-	Next	End-P	revious

Figure 11

To select a characteristic...

CURSOR to the desired choice. Press **<ENTER>**.

The Preliminary Assessment form includes nine pages (screens) of information. To progress to the next screen of the form use the <PgDn> key. To return to a previous screen, press <END>. Press <HOME> to return to the Summary Screen.

Note that programming considerations limit cursor movement and affect logical flow of data entry within the form.

Press < HOME >.

2.3.3 Site Summary Feature

Note the status line and the "<F7>-Summary" function. This function is used to access a list of questions designed to help you reach a conclusion about the relative risk of the site and the need for further site assessment activity. To access the summary questions...

From the Summary Screen...

Press <F7>.

The following screen will appear:

Summary Questions Screen

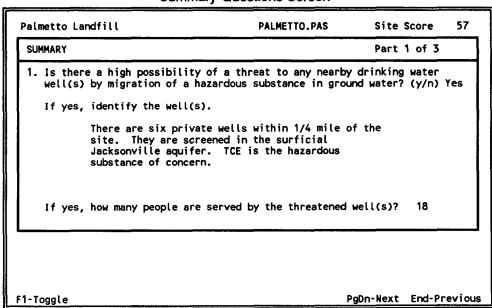


Figure 12

Questions are answered yes <Y> or no <N> and explanations for the answers can be provided, when appropriate.

The site summary consists of three screens of questions. To proceed to other screens of the questionnaire use the <PgDn> key.

To return to the Summary Screen...

Press < HOME>.

2.3.4 Exiting and Saving Site Files

To save the changes that you have made to the file...

From the Summary Screen...

Press <END>.

PA-Score Save/Exit Pop-Up Menu

		Score Version	T	
Pathway	Likelihood of Release	Targets	Waste Characteristics	Pathway Score
Ground Water	Poture	Save / Exit		52 100 1 64 60
Surface Water Drinking Water Human Food Chain Environmental	Return to PA-Score Save changes and contine Exit to DOS, save change Exit to DOS, ignore change		anges	
Soil Exposure Resident Nearby	550	5 1	18	2 1 1
Air	500	57	18	6
AIF	500		18 1	

Figure 13

CURSOR to "Save changes and continue" (if you are finished, select "Exit to DOS, Save Changes").

Press < ENTER >.

The following screen will appear:

Palmetto Landfill PALMETTO.PAS Site Score 57 PA-Score Version 1.0 Likelihood Waste Pathway Pathway of Release **Targets** Characteristics Score **Ground Water** Save / Exit 52 Return to PA-Score Surface Water Save changes and continue 100 Exit to DOS, save changes Exit to DOS, ignore changes Drinking Water Human Food Chain 64 Environmental 60 Soil Exposure 2 Resident - Save File Option Save file with current name Nearby Save file with new name Air 6 **ENTER-Select**

Save File Option Pop-Up Menu

Figure 14

CURSOR to "Save file with new name."

Press < ENTER >.

Type your first name (8 or fewer characters, no spaces in name).

Press < ENTER >.

A copy of the tutorial file (with modifications) has now been made under your name. The next time you access the File System (either when you start PA-Score or by pressing <F8> from the Summary Screen) you will see this file. Note that you need to save the file when exiting the program or when accessing a new file.

To this point, the Tutorial has covered the basics of operating the PA-Score program. You have learned how to access any screen in PA-Score by using the cursor keys and <ENTER>, how to return to previous screens by pressing <END>, or return to the Summary Screen by pressing <HOME>. You have also learned how to access Help (<F10>), the Reference List (<F2>), the Preliminary Assessment form (<F9> from the Summary Screen) and the site Summary questions (<F7> from the Summary Screen). The rest of this Tutorial shows how to apply these basics to the screens for each pathway.

2.4 Waste Characteristics

The hierarchy of menus allows you maximum flexibility in data input; you may enter any piece of data at any time. However, in accordance with PA guidance, EPA recommends entering source and waste information first.

If you saved your file and exited PA-Score after completing the General Operation section, retrieve your file by following the procedures outlined in Section 2.2 of the tutorial.

Starting at the Summary Screen...

CURSOR to the "Waste Characteristics" column (any pathway). Press **<ENTER>**.

Regardless of the pathway you started from, you will see the following screen:

Palmetto Landfill NAME.PAS Site Score 57 Waste Characteristics -> Sources Source Name Source Type References 1 Palmetto Landfill Landfill 4 7.69E+01 WC = 18

Figure 15

F10-Help End-Previous

The Sources Screen lists all the sources defined for the site.

To add a new source to the site:

Enter Data

CURSOR to the second row of the "Source Name" column. Type Sludge Pond, then CURSOR to the "Source Type" column. Press <ENTER>.

Source Type Pop-Up Menu

Palmetto Landfill	NAME.PAS	Site Sco	ore 57
Waste Characteristics -> S	ources		
Source Name	Source Type	References	₩Q Value
Source Type Landfill	Landfill	4	7.69E+01
Surface Impoundment Drums Non-Drum Containers Contaminated Soil Waste Pile Land Treatment Other			0.00E+00
ENTER-Select	1	WC =	18

Figure 16

A pop-up menu of source types will appear.

CURSOR to "Surface Impoundment." Press **<ENTER>**.

Those words should now appear in the source type column.

This screen also displays the waste quantity value for each source. To enter a waste quantity for the new source...

CURSOR to the "WQ Value" column. Press **<ENTER>**.

Hazardous Waste Quantity Pop-Up Menu

Palmetto Landfill	NAME.PAS	Site Sco	re 57
Waste Characteristics -> Soul	rces		
Source Name	Source Type	References	WQ Value
Hazardous Waste Quantity Constituent Wastestream	Landfill	4	7.69E+01
Volume Area	Surface impoundment		0.00E+00
		WC =	18
NTER-Select		F10-Help Er	با ما ما ما

Figure 17

A pop-up menu appears which lists the four tiers by which waste quantity can be categorized. If the data are available, all four tiers may be scored for a particular source. PA-Score will utilize the site waste quantity value for the tier that scores highest. To select a tier in which to record waste quantity data for your source...

CURSOR to "Volume" Press <ENTER>.

A waste quantity data entry screen will appear on which the amount of waste can be recorded for your source. Volume and area waste quantities are entered in the same manner.

Volume/Area Quantities Screen

Waste Characteristics	-> Sources ->	Volume .	/ Area	Quantities		
Source Name	Volume Quantity	Units	Ref.	Area Quantity	Units	Ref.
1 Palmetto Landfill				6.00E+00	acres	*
2 Sludge Pond			-			

Figure 18

In the volume column...

Type 20000.
Press <ENTER>.

The quantity of waste you entered is now expressed in scientific notation, with the units (cubic feet) to the right. You may select the units associated with the volume quantity by cursoring to the "Units" column and pressing **<ENTER>** to access a pop-up menu. To exit the screen and return to the main source list...

Press <END>.

Note that the status line indicates to press <END> to go to the previous screen.

Using the procedure described above, add a wastestream value for the sludge pond.

CURSOR to the WQ Value column of the source screen (you are already there).

Press <ENTER>.

CURSOR to "Wastestream."

Press < ENTER >.

Type **1E10** (10,000,000,000) in the wastestream column.

Press < ENTER >.

Press < END>.

A wastestream quantity is now calculated for your source. Constituent quantity may be entered in the same manner as wastestream quantity and both must be entered in pounds. Note that the overall waste characteristics (WC) value has now increased to 100.

Remember, the hazardous waste quantity information that you entered is evaluated for all pathways. Therefore, you need only enter source information once; it will be applied to all pathways. Note that for all pathways except soil exposure, a waste characteristics score less than 32 defaults to 32 if any primary targets are identified.

Press < HOME>.

All pathway scores and the site score now reflect the additions you have made while in the Waste Characteristics section of the program.

2.5 Likelihood of Release

The Likelihood of Release factor category is evaluated in the same manner for the ground water, surface water, and air pathways: by completing a "Criteria List" which appears on screen and is designed to assist you in hypothesizing whether release of a hazardous substance is suspected. Answers to all of the questions may not be available during the PA. Also, these criteria are not all-inclusive; briefly enter any other criteria that help shape your hypothesis next to the "Other criteria?" question. The list records your professional judgment in evaluating these criteria.

To access the Likelihood of Release factor category for the ground water pathway...

From the Summary Screen...

CURSOR to the Ground Water Likelihood of Release position. **Press <ENTER>**.

Palmetto Landfill NAME . PAS Site Score 73 Ground Water Pathway -> Likelihood of Release -> Criteria List Are sources poorly contained? (y/n/u) Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u)Y Is waste quantity particularly large? (y/n/u) N Is precipitation heavy? (y/n/u) Is the infiltration rate high? (y/n/u) N Is the site located in an area of karst terrain? (y/n) N Is the subsurface highly permeable or conductive? (y/n/u) Is drinking water drawn from a shallow aquifer? (y/n/u)Are suspected contaminants highly mobile in ground water? (y/n/u) Does analytical or circumstantial evidence suggest Y ground water contamination? (y/n/u) Other criteria? (y/n) wastes deposited below water table SUSPECTED RELEASE? (y/n) Y Summarize the rationale for Suspected Release Enter Data F10-Help End-Previous

Ground Water Likelihood of Release Criteria List

Figure 19

This is the Criteria List for the Ground Water Pathway Likelihood of Release factor category. Each question can be answered with a yes <Y>, no <N>, or unknown <U>, unless otherwise specified. You can move the cursor freely within the screen, and answers may be changed if desired. Note that all questions <u>must</u> be answered before PA-Score will permit you to advance to the next part of the program. After all questions have been answered...

Press < ENTER >.

PA-Score will then advance to a Likelihood of Release screen where additional data are required.

Palmetto Landfill Site Score 73 Ground Water Pathway -> Likelihood of Release Value Ref. Do you suspect a release? (y/n) Yes Is the site located in karst terrain? (y/n)No Depth to aquifer (feet): 0 Distance to the nearest drinking water well (feet): 300 7,13 Suspected No Suspected LIKELIHOOD OF RELEASE Release Release References 1. SUSPECTED RELEASE 550 2. NO SUSPECTED RELEASE 0 LR = 550 0 Enter Data F10-Help End-Previous

Ground Water Likelihood of Release Value Screen

Figure 20

The first two questions reflect the responses given on the previous screen. In this case, the score given for Likelihood of Release (550) reflects a suspected release scored on the Criteria List.

Press < HOME>.

The Likelihood of Release Criteria Lists are similar for each pathway. To view the Surface Water Pathway Likelihood of Release Criteria List...

CURSOR to any Surface Water Threat Likelihood of Release position. Press **<ENTER>**.

Surface Water Likelihood of Release Criteria List

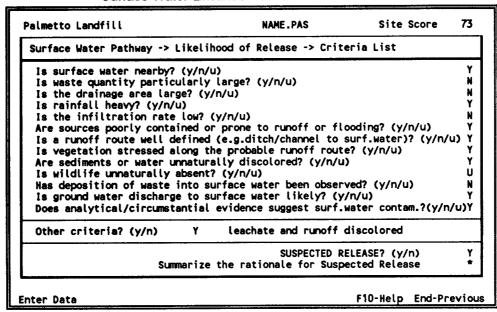


Figure 21

This is the Criteria List for the Surface Water Pathway Likelihood of Release factor category.

Press < ENTER >.

Surface Water Likelihood of Release Value Screen

Palmetto Landfill	NAME.PAS	Site	e Score	73
Surface Water Pathway -> Likelihood	of Release V	alue		Ref.
Do you suspect a release? (y/n)		Y	es	
Distance to surface water (feet)):	2:	50	5,7
Flood frequency (years):	Flood frequency (years): 1-10			
What is the downstream distance a. the nearest dr b. the nearest fi c. the nearest se	rinking water ishery?	0.	A. .0 .1	12 15 1
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	Refer	ences
1. SUSPECTED RELEASE	550			
2. NO SUSPECTED RELEASE		0	1	
LR ≠	550	0		
nter Data		F10-Heli	o End-P	revio

Figure 22

The Surface Water Pathway Likelihood of Release Value Screen asks for data on distance to surface water, flood frequency, and distance to the nearest drinking water intake, fishery, and sensitive environment. Note that if there is no target for a particular threat you must enter a distance greater than 15 miles for that threat (not a zero).

In this example, drinking water intakes are not located within the 15 mile target distance limit, so 16 miles was entered, producing an "N.A." display.

Press < HOME>.

The Likelihood of Release screens for the other pathways are similar, with questions pertinent to the particular pathway. For example, the following figures show the Likelihood of Exposure screen for the soil exposure pathway (does not have a Criteria List) and the Likelihood of Release screens for the air pathway:

Soil Exposure Likelihood of Exposure Value Screen Palmetto Landfill NAME.PAS Site Score 73 Soil Exposure Pathway -> Likelihood of Exposure Value Ref. Do any people live on or within 200 ft of areas of suspected contamination? (y/n) 7 No Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n) 7 No Is the facility active? (y/n) 7 No Suspected LIKELIHOOD OF EXPOSURE Contamination References 1. SUSPECTED CONTAMINATION LE = 550 Enter Data F10-Help End-Previous

Figure 23

Air Likelihood of Release Criteria List

Palmetto Landfill	NAME.PAS	Site Score	73
Air Pathway -> Likelihood of R	Release -> Criteria List		
Are odors currently reported?			N
Has release of a hazardous su Are there reports of adverse	been directly observe health effects (e.g., health	daches,	N
	ntially resulting from mig s substances through the a al evidence suggest a rele	ir? (y/n/u)	N N
Other criteria? (y/n) N			
Summari z	SUSPECTED RE ze the rationale for Suspe	LEASE? (y/n) ected Release	N *
Enter Data		F10-Help End-Prev	ious

Figure 24

Air Likelihood of Release Value Screen

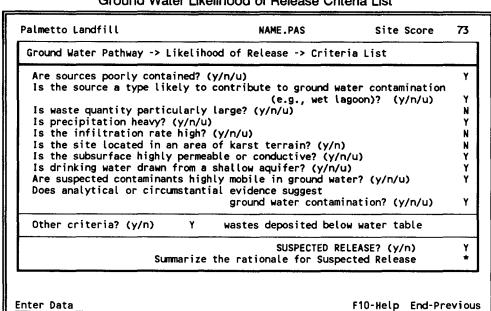
Palmetto Landfill	NAME.PAS	Site	Score	73
Air Pathway -> Likelihood of Release Value				Ref.
Do you suspect a release? (y/n)		No)	
Distance to the nearest individu	al (feet):	30	00	7
LIKELIHOOD OF RELEASE 1. SUSPECTED RELEASE	Suspected Release 0	No Suspected Release	Refer	ences
2. NO SUSPECTED RELEASE		500		
LR =	0	500		
		F10-Help		

Figure 25

2.6 **Documentation Editor**

From the Summary Screen...

CURSOR to the Ground Water Pathway Likelihood of Release position. Press <ENTER>.



Ground Water Likelihood of Release Criteria List

Figure 26

Each Criteria List requests that you "Summarize the rationale for Suspected Release." Text summarizing your rationale can be entered using the documentation editor. To access the documentation editor...

CURSOR to the "Summarize the rationale for Suspected Release" position.

The status line now displays a "F3-Document" message.

Press <F3>.

The documentation editor screen allows you to type in text explaining the suspected release rationale. Note that the editor does not have word processing capabilities (i.e., underline, bold, block, etc.). The text screen will scroll to allow unlimited entry of text; however, the PA Scoresheet printouts are limited to 20 - 25 lines for printing documentation text.

Documentation Editor Screen

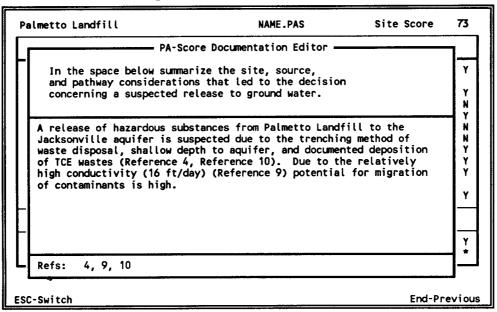


Figure 27

Note that the documentation screen also provides brief guidance on documentation requirements. It is a good practice to record references for documentation statements.

To reference this text...

Press <ESC>.

Note that reference numbers (4, 9, 10) have been entered.

Press <F2> to access the reference list.

Reference citations are entered here as discussed in Section 2.3.1.

Press <END> twice to return to the Criteria List, then Press <HOME> to return to the Summary Screen.

The documentation feature allows you to enter text and references to explain and document scoring decisions and data. This feature is available in several critical areas of the program. Documentation may be entered for all Criteria List decisions (Suspected Release and Primary Targets), waste quantity data (constituent, wastestream, volume, and area), and drinking water population apportionment.

2.7 Targets

Targets are those populations or environments actually exposed or at risk of being exposed to releases of hazardous substances from sources at a site. The manner in which target populations are evaluated varies from pathway to pathway. The procedures required to enter data for ground water, surface water, soil, and air pathway targets within PA-Score are summarized below.

2.7.1 Ground Water Pathway Targets

To evaluate Ground Water Targets...

From the Summary Screen...

CURSOR to the Ground Water Targets position. Press **<ENTER>**.

Ground Water Targets Screen

Palmetto Landfill	NAME.PAS	Site	Score 73
Ground Water Pathway -> Targets			
TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 18 person(s)	180		
4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N Document apportionment.	11	0	*
5. NEAREST WELL	50	0	
6. WELLHEAD PROTECTION AREA(WHPA)	0	0	
7. RESOURCES	5	0	
Τ=	246	0	
NTER-Select			End-Previo

Figure 28

This screen summarizes ground water target values, including primary and secondary target populations, nearest well, Wellhead Protection Area, and resources. Note that the values appear in the "Suspected Release" column as a result of the decision recorded in the Likelihood of Release Criteria List. Each target factor is accessed by cursoring to the specific factor and pressing **<ENTER>**. For example, to record information for primary target population...

CURSOR to the "Primary Target Population" position. Press **<ENTER>**.

Ground Water Primary Targets Criteria List

Palmetto Landfill	NAME.PAS	Site Score	73
Ground Water Pathway -> Primary Ta	argets -> Criteria Li	st	
Is any drinking water well nearby Has any nearby drinking water wel Has any nearby drinking water use	ll been closed? (y/n		Y
indo diriy riodi oy di rimiring masor do	foul-smelling water		U
Does any nearby well have a large Is any drinking water well locate	e drawdown/high produ	ction rate? (y/n/u)	N
that are suspected to be ex Does analytical or circumstantial	kposed to a hazardous	substance? (y/n/u)	U
	at a drinking w	mater well? (y/n/u)	Y
Does any drinking water well warn	rant sampling? (y/n/u)	Y
Other criteria? (y/n) N			
	IMARY TARGET(S) IDENT the rationale for Pri		Y *
Enter Data		F10-Help End-Pre	viau

Figure 29

This is the Ground Water Pathway Criteria List for Primary Targets. The questions must be answered in the same manner as the Likelihood of Release Criteria List. If you do not identify primary targets in the Criteria List, you will be restricted from entering any primary target data.

Press < ENTER>

Ground Water Target Populations Screen

Palmetto Landfill		ME.PAS	Site So	core 73
Ground Water Pathway -> Targets	-> Populat	tion		
Secondary Target Population Distance Categories		Population Served	Reference	Value
O to % mile Greater than % to % mile Greater than % to 1 mile Greater than 1 to 2 miles Greater than 2 to 3 miles Greater than 3 to 4 miles		0 62 98 156 194 116	13 13 13 13	0 3 2 3 2 1
Primary Target Population Drinking Water Well ID	Dist. (miles)	Population Served	Reference	Value
1 JJ Jones Well	0.10	3	1	30
2 5 Wells w/in 1/4 mile rad	0.25	15	7,14	150
		arget Populat Target Popula		180 11
Enter Data			F10-Help E	nd-Previous

Figure 30

The screen above contains tables in which to enter primary and secondary target population data, and automatically calculates the values for each. To enter primary target information...

CURSOR to the data entry space below "5 Wells w/in 1/4 mile rad" (the listing will scroll). Type Municipal Well #1.

CURSOR to the "Dist." (distance) column.

Type 0.2.

CURSOR to the "Population Served" column.

Type 500.

Press <ENTER>.

The Primary Target Population value will be automatically recalculated to reflect your changes.

To enter secondary target information...

Press <END> twice.

CURSOR to the "Secondary Target Population" position.

Press <ENTER>.

Secondary target population information can then be entered.

CURSOR to the "Greater than 1 to 2 miles" position. Type 700 Press <ENTER>.

The value for that distance will now recalculate to reflect that population. To return to the Ground Water Pathway Targets Screen...

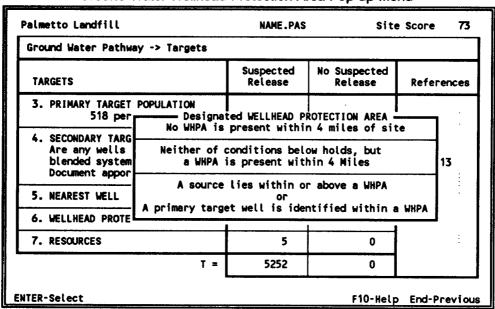
Press < END>.

Note that the target values reflect new data entered. In addition, the screen asks whether any wells are part of a blended system and, if so, to show apportionment. For blended systems, answer yes (<Y>) to the question, and document the apportionment by pressing <F3> from the reference column position opposite the question. This advances you to the documentation editor where you enter apportionment calculations. This same function is available for surface water pathway drinking water targets, and is used in the same manner (see Section 2.6).

To evaluate Wellhead Protection Area(s)...

CURSOR to Wellhead Protection Area (WHPA). Press < ENTER>.

The following pop-up menu appears:



Ground Water Wellhead Protection Area Pop-up Menu

Figure 31

CURSOR to "A source lies within or above a WHPA." **Press <ENTER>**.

Note the change in the target value. To return to the Summary Screen...

Press < HOME>.

2.7.2 Surface Water Pathway Targets

Surface water targets are divided by pathway threats into Drinking Water, Human Food Chain, and Environmental. The following screens illustrate how to evaluate targets in each surface water threat. To evaluate drinking water targets...

From the Summary Screen...

CURSOR to the Surface Water Pathway Drinking Water Threat Targets position. Press < ENTER>.

Target Distance Limit Warning Message

Pathway	of Release	Targets	Characteristics	Score
Ground Water	550	5272	100	100
Surface Water Drinking Water Human Food Chain Environmental	550 550 550	5 300 300	100 100 100	100 3 100 60
Soil Exposure Resident Nearby	550	5	100	4 3 1
Air	500	57	100	35

Figure 32

The Target Distance Limit Warning message appears because the distance to the nearest drinking water intake was entered as 16 miles on the Surface Water Likelihood of Release Value Screen (see Section 2.5). To view the Drinking Water Targets Screen, follow the message on the status line "Press <ENTER> to Continue."

Press < ENTER >.

The following screen appears:

Surface Water Drinking Water Targets Screen

NAME.PAS	Site	Score 73
ater Threat T	argets	
Suspected Release	No Suspected Release	References
0		
0	0	*
0	0	
5	0	
5	0	
	ater Threat T Suspected Release 0 0 5	Suspected Release O O O O O O O O O O O O O

Figure 33

The Surface Water Drinking Water Targets Screen provides a summary of target values including primary and secondary target populations, nearest intake, and resources. Before entering target data, you must first complete the Drinking Water Threat Targets Criteria List.

To access the Drinking Water Threat Targets Criteria List...

From the "Primary Target Population" location...

Press < ENTER >.

Surface Water Drinking Water Targets Criteria List

Palmetto Landfill	NAME.PAS	Site Score	73
Surface Water Pathway -> Drinking	Water Threat Targets	-> Criteria List	
Is any drinking water intake nea	arby? (y/n/u)	<u> </u>	N
Has any intake, fishery, or recr	reational area been clos	sed? (y/n/u)	N
Does analytical or circumstantia contamination	al evidence suggest sur n at or downstream of a		N
Does any drinking water intake w	warrant sampling? (y/n/	1)	N
Other criteria? (y/n) N			
	RIMARY INTAKE(S) IDENTIF ne rationale for Primary		N *
			-
Enter Data		F10-Help End-Pre	viou

Figure 34

All questions must be answered to advance to the Drinking Water Intakes Screen. After answering all questions in the Drinking Water Targets Criteria List...

Press < ENTER >.

Because no primary targets were identified, you have returned to the Drinking Water Targets Screen.

CURSOR to the "Secondary Target Population" position. Press **<ENTER>**.

The following screen appears:

Surface Water Drinking Water Intakes Screen

Intake Name	Primary (y/n)	Water Bo	ody Type/Flow	Population Served	Ref.	Value
1				0		0
		-				
			mary Target Po			 0

Figure 35

For each Surface Water Threat, PA-Score allows the entry of both primary and secondary targets on the same screen. This allows you to test the scoring ramifications of evaluating a target under both scenarios. For this threat, an intake is entered by typing in its name, identifying it as primary or secondary (by typing <Y> or <N> or by using the <F1> key as a toggle), selecting the water body type or flow where the intake is located (from a pop-up menu), and entering the population served by the intake. PA-Score will then calculate the appropriate value based on the data/selections entered. Note, if an intake is identified as "Primary," no water body type is selected; a value based only on the population served is calculated. Finally, the yes or no response in the "Primary" column must agree with whether you identified primary targets on the Criteria List.

To select water body type or flow...

Move the **CURSOR** to the "Water Body Type/Flow" column. Press **<ENTER>**.

The following pop-up menu appears:

Surface Water Drinking Water Intakes: Water Body Type Pop-Up Menu

Palmetto Landfill	PALMETTO.PAS	Site Score 57	,
Surface Water Pathway -> Drinking W	ater Threat Targets]
	Body Type/Flow Serv	ed Ref. Value	7
Water Body Type ——— OR minimal stream — small to moderate stream moderate to large stream large stream to river large river	Flow Character < 10 cf 10 to 100 > 100 to 1, > 1,000 to 1 > 10,000	s 0 cfs 000 cfs 0,000 cfs	
3-mile mixing zone of quiet flowing streams or rivers	10 cfs or	greater -	
coastal tidal water (harbors, sounds, bays, etc.), ocean, or Great Lakes	N/A		
Total S	econdary Target Populat	ion Value 0	
ENTER-Select	F1	O-Help End-Previo	us

Figure 36

CURSOR to "10 to 100 cfs." Press <ENTER>.

"Population Served" values can then be entered on this screen by typing data in that column.

Press < HOME>.

To evaluate the human food chain targets...

CURSOR to the Surface Water Pathway Human Food Chain Targets position. Press **<ENTER>**.

Surface Water Human Food Chain Targets Screen

Surface Water Pathway -> Human Food	Chain Threat	Targets	
TARGETS	Suspected Release	No Suspected Release	References
8. Determine the water body type and flow (if applicable) for each fishery.			
9. PRIMARY FISHERIES	300		
10. SECONDARY FISHERIES	N.E.	0	
τ =	300	0	

Figure 37

As in all surface water threats, a series of screens will require you to answer questions and enter data regarding primary and secondary targets, in this case fisheries. The screen provides a summary of target values for primary and secondary fisheries. Before entering specific fisheries information in the Human Food Chain Fishery Screen, first access the Human Food Chain Targets Criteria List from this screen.

To access the criteria list...

Press < ENTER >.

Surface Water Human Food Chain Targets Criteria List

Palmetto Landfill	NAME.PAS Site Score	73
Surface Water Pathway -> Hum	man Food Chain Threat Targets -> Criteria List	
Is any fishery nearby? (y/n	/u)	Y
Has any intake, fishery, or	recreational area been closed? (y/n/u)	N
Does analytical or circumst contamir	antial evidence suggest surface water nation at or downstream of a fishery? (y/n/u)	N
Does any fishery warrant sa	mpling? (y/n/u)	Υ
Other criteria? (y/n)	Y Water draining to fishery discolored	
	PRIMARY FISHERY(IES) IDENTIFIED? (y/n) the rationale for Primary Fishery(ies)	Y *
		.
Enter Data	F10-Help End-Pre	vious

Figure 38

After answering the questions...

Press <ENTER>.

The following screen appears:

Surface Water Human Food Chain Fishery Screen

Palmetto Landfill		NAME.PAS Si	te Scor	e 73
Surface Water Pathway -> Human	Food Chai	in Threat Targets		
Surface Water Pathway -> Human Fishery Name 1 Wildlife Creek 2 Ono River 3 Wildlife Creek Wetlands	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Wildlife Creek	Υ	primary fishery	1	300
2 Ono River	N	1000-10000 cfs	6	12
3 Wildlife Creek Wetlands	Y	primary fishery	15	300
L		al Primary Fisheries Va al Secondary Fisheries		300 0
Enter Data		F10-He	lp End	-Previous

Figure 39

For this threat, a fishery is entered by typing its name, identifying it as primary or secondary (by typing <Y> or <N> or by using the <F1> key as a toggle) and selecting the water body type or flow in which the fishery is located (from a pop-up menu). PA-Score then calculates the appropriate value based on data/selections entered. Note, if a fishery is identified as "Primary," no water body type is selected; a value of 300 is assigned and secondary fisheries are not evaluated. Further, a single primary fishery receives the maximum target value of 300; multiple primary fisheries are not additive. Finally, the yes or no response in the "Primary" column must agree with whether you identified primary targets on the Criteria List.

Press < HOME>.

To evaluate environmental targets...

CURSOR to the Surface Water Pathway Environmental Targets position. Press < ENTER>

The following screen appears:

Palmetto Landfill NAME.PAS Site Score 73 Surface Water Pathway -> Environmental Threat Targets Suspected No Suspected Release Release **TARGETS** References 11. Determine the water body type and flow (if applicable) for each sensitive environment. 12. PRIMARY SENSITIVE ENVIRONMENTS 300 13. SECONDARY SENSITIVE ENVIRONS. N.E. 0 300 0

Surface Water Environmental Targets Screen

As in the other surface water threats, a series of screens will appear requiring you to answer questions and enter data regarding primary and secondary targets, in this case sensitive environments. The screen provides a summary of target values for primary and secondary sensitive environments. Before entering specific sensitive environment information in the Sensitive Environments Screen, first access the Environmental Targets Criteria List from this screen.

Figure 40

F10-Help End-Previous

Press < ENTER >.

ENTER-Select

Surface Water Environmental Targets Criteria List

Palmetto Landfill	NAME.PAS	Site Score	73	
Surface Water Pathway ->	Environmental Threat Targets -	> Criteria List		
Is any sensitive environ	ment nearby? (y/n/u)		Υ	
Has any intake, fishery,	or recreational area been clo	osed? (y/n/u)	N	
Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a sensitive environment? (y/n/u) Does any sensitive environment warrant sampling? (y/n/u)				
Other criteria? (y/n)	Y Water draining into w	etland discolored		
	ENSITIVE ENVIRONMENT(S) IDENTI nale for Primary Sensitive Env		Y *	
Enter Data		F10-Help End-Pre	vious	

Figure 41

After answering the questions...

Press <ENTER>.

The following screen appears:

Surface Water Sensitive Environments Screen

Palmetto Landfill		NAME.PAS Si	te Scor	e 73
Surface Water Pathway -> Envir	onment Th	reat Targets		
Sensitive Environment Name	Primary (y/n)	Water Body Type/Flow	Ref.	Value
1 Wildlife Creek Wetlands	Υ	primary sens.envir.	1	300
2 Bald Eagle Habitat	Y	primary sens.envir.	16	300
3 Salt Marsh Harvest Mouse	Y	primary sens.envir.	16	300
		nsitive Environments Va Sensitive Environments		300 0
Enter Data		F10-He	lp End	-Previous

Figure 42

For this threat, a sensitive environment is entered by typing its name, identifying it as primary or secondary (by typing <Y> or <N> or by using the <F1> key as a toggle), selecting the water body type or flow in which the sensitive environment is located (from a pop-up menu), and selecting the sensitive environment value (from a pop-up menu). PA-Score then calculates the appropriate value based on data/selections entered. Note, if a sensitive environment is identified as "Primary," no water body type or sensitive environment value is selected; a value of 300 is assigned and secondary sensitive environments are not evaluated. Further, a single primary sensitive environment receives the maximum target value of 300; multiple primary sensitive environments are not additive. Finally, the yes or no response in the "Primary" column must agree with whether you identified primary targets on the Criteria List.

Since all the sensitive environments listed are identified as primary targets in this example, the sensitive environment value pop-up menu is not accessible. However, if a new sensitive environment that is not identified as primary is added, the pop-up menu can be accessed.

CURSOR to the fourth row of the "Sensitive Environment Name" column.

Type Cape Johnson Park.

Enter an N in the "Primary" column.

CURSOR to the "Water Body Type/Flow" column.

Press <ENTER>.

CURSOR to "minimal stream".

Press <ENTER>.

CURSOR to the "Value" column.

Press <ENTER>.

The following pop-up menu appears:

Surface Water Sensitive Environment Types Pop-Up Menu

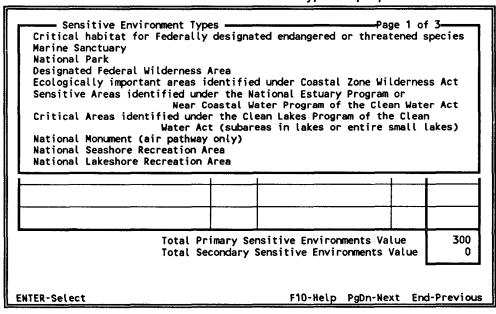


Figure 43

CURSOR to "National Seashore Recreation Area."

To select another sensitive environment type, you may CURSOR through each selection, or press <PgDn> to review the selections more quickly (there are three pages of types).

Press < ENTER >.

The selected sensitive environment value appears in the table.

Press < HOME > to return to the Summary Screen.

2.7.3 Soil Exposure Pathway Targets

Populations and environments exposed to contamination via the soil exposure pathway are calculated in much the same manner as the other pathways.

From the Summary Screen...

CURSOR to the Soil Exposure Resident Threat Targets position. Press **<ENTER>**.

The following screen appears:

Soil Exposure Resident Population Criteria List

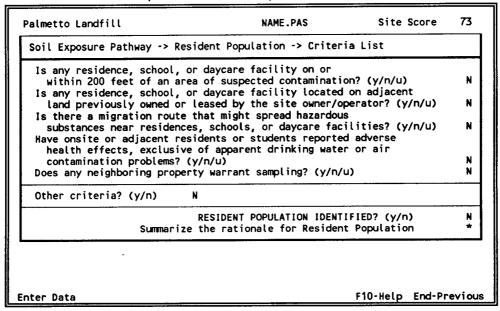


Figure 44

This is the Soil Exposure Pathway Resident Population Criteria List. To demonstrate data entry of resident threat targets, answer "Yes" to all of the questions on the list. While this contradicts site information entered elsewhere in the program, it allows this tutorial to more fully demonstrate data entry.

Enter Y for all questions.

Make sure the answer to "Resident Population Identified?" is "Y" to evaluate resident threat targets. After all questions have been answered.

Press < ENTER >.

The following screen appears if you identified resident population on the Criteria List:

Palmetto Landfill NAME.PAS Site Score 73 Soil Exposure Pathway -> Resident Population Threat Targets Suspected TARGETS Contamination References 2. RESIDENT POPULATION 0 resident(s) 0 school/daycare student(s) 3. RESIDENT INDIVIDUAL O 4. WORKERS 0 5. TERRESTRIAL SENSITIVE ENVIRONMENTS 0 6. RESOURCES 5 5 **ENTER-Select** F10-Help End-Previous

Soil Exposure Resident Population Targets Screen

Figure 45

PA-Score allows access to target factors based on answers given on the Criteria List and on the Likelihood of Exposure Value Screen (see Section 2.5). For example, if you indicate that people live or attend school or daycare on or within 200 feet of an area of suspected contamination, PA-Score allows you to enter the number of people under "Resident Population." Note that the cursor is flashing at the "Resident Population (residents)" position...

Type 12.
Press <ENTER>.

PA-Score then calculates the resident population value and the resident individual value.

Because the facility was recorded as inactive on the Soil Exposure Likelihood of Exposure Value Screen (see Section 2.5), access to the "Workers" position is not permitted. For an active site, information on workers is entered using a pop-up menu. If workers are reported present at the site on the Likelihood of Exposure Value Screen...

The pop-up menu appears from which you can select the number of workers.

Soil Exposure Workers Pop-Up Menu

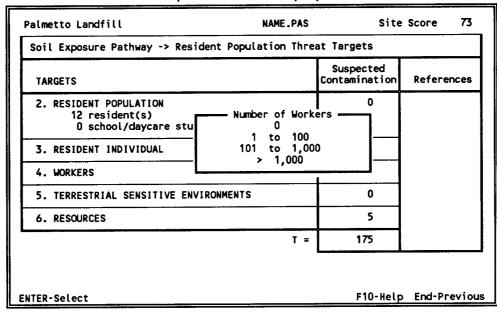


Figure 46

Values for soil exposure terrestrial sensitive environments are calculated based on the sensitive environment type. To access the sensitive environment screens...

CURSOR to "Terrestrial Sensitive Environments." Press **<ENTER>**.

The following screen appears:

Soil Exposure Terrestrial Sensitive Environments Screen

Palmetto Landfill	NAME.PAS	Site Sco	ore 73
Soil Exposure Pathway -> Target	s -> Terrestrial Sens	sitive Environme	ents
Terrestrial Sensitive Environ	ment Name	Reference	Value
1			0
Total Terrest	rial Sensitive Enviro	onments Value	0
Enter Data		F10-Help Er	nd-Previous

Figure 47

Type the sensitive environment name in the left column. To select sensitive environments...

CURSOR to the "Value" column. Press **<ENTER>**.

The following pop-up menu appears:

Soil Exposure Terrestrial Sensitive Environment Types Pop-Up Menu

Terrestrial cri National Park	ol Sensitive Environment Types — Page 1 tical habitat for Federally designated endangered or threatened eral Wilderness Area ent	
National Preser National or Sta Federal land de Administrativel	pitat known to be used by Federally designated or proposed threatened or endangered space (terrestrial) the terrestrial Wildlife Refuge esignated for protection of natural ecosystems y proposed Federal Wilderness Area has utilized by large or dense aggregations of animals (vertebrate species) for l	
	Total Terrestrial Sensitive Environments Value	0
ENTER-Select	F10-Help PgDn-Next	End-Previous

Figure 48

To select the appropriate terrestrial sensitive environment type, simply CURSOR to the terrestrial sensitive environment you are evaluating and press <ENTER> or use the <PgDn> key to view page 2 of the popup menu.

Press < HOME>.

To evaluate the threat to nearby targets...

From the Summary Screen...

CURSOR to the "Soil Exposure Nearby Targets" position. Press **<ENTER>**.

	PA-S	Score Version	1.0	
Pathway	Likelihood of Release	Targets	Waste Characteristics	Pathway Score
Ground Water	550	5272 Population Wi	100	100
Surface Water Drinking Water Human Food Chain Environmental	550 550 550	Non 1 - 10 10,001 - >50,0	ne 0,000 50,000	100 3 100 60
Soil Exposure Resident Nearby	550	275 1	100	100 100 1
Air	500	57	100	35

Soil Exposure Nearby Targets Pop-Up Menu

Figure 49

CURSOR to "1 - 10,000" option. Press <ENTER>.

PA-Score calculates a nearby population threat value.

2.7.4 Air Pathway Targets

Populations and sensitive environments actually exposed to, or at risk of being exposed to, release of hazardous substances to the air are evaluated as in the other pathways; a Criteria List is used to determine primary and secondary target populations and environmental targets.

To access the Air Targets Screen...

CURSOR to the Air Pathway Targets position. Press **<ENTER>**.

The following screen appears:

Air Targets Screen

Palmetto Landfill	NAME.PAS	Site	Score 88
Air Pathway -> Targets			
TARGETS	Suspected Release	No Suspected Release	References
3. PRIMARY TARGET POPULATION 0 person(s)	0		
4. SECONDARY TARGET POPULATION	0	11	
5. NEAREST INDIVIDUAL	0	20	
6. PRIMARY SENSITIVE ENVIRONMENTS	0		
7. SECONDARY SENSITIVE ENVIRONS.	0	21	
8. RESOURCES	0	5	
Τ =	0	57	

Figure 50

The cursor is positioned at the "Secondary Target Population" position. The secondary target population was evaluated in Section 2.3. To evaluate other air targets...

CURSOR to the "Secondary Sensitive Environs." position. Press <ENTER>.

The following screen appears:

Air Secondary Sensitive Environments Screen

Palmetto Landfill	NAME.PAS	Site Sco	ore 88
Air Pathway -> Targets -> Secondar	ry Sensitive Environm	ents	
Sensitive Environment Name	Distance	Reference	Value
1 Wildlife Creek Wetlands	0 - 1/4	1	6.2
2 Bald Eagle Habitat	onsite	16	7.5
3 Salt Marsh Harvest Mouse	onsite	16	7.5
Total Secondar	ry Sensitive Environm	ents Value	21
Enter Data		F10-Help Er	nd-Previou

Figure 51

Space is provided to enter the sensitive environment name, and a pop-up menu is available from which to choose a distance category corresponding to the sensitive environment's distance from the site. Note, if a Suspected Release is identified, secondary targets are not evaluated within 1/4 mile of the site. PA-Score defaults to the >1/4 to 1/2 mile distance category.

To choose the type of sensitive environment...

CURSOR to the "Value" column. Press **<ENTER>**.

The Sensitive Environments Screen appears:

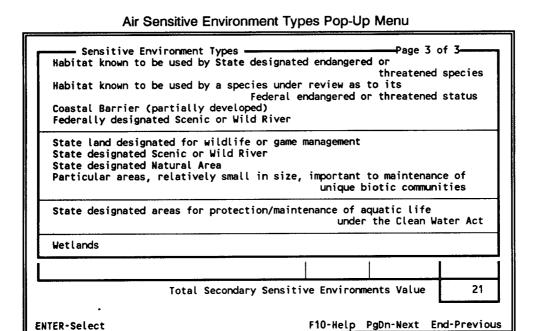


Figure 52

Sensitive environment types are selected in the manner described in the Surface Water Environmental Threat Targets section (Section 2.7.2).

Press <HOME> twice to return to the Summary Screen.

Note, Air primary target population and primary sensitive environments can only be entered if a Suspected Release has been projected on the Air Likelihood of Release Criteria List. The data entry screens for these target factors are accessed from the Air Targets Screen and appear as follows:

Air Primary Target Population Screen

Palmetto Landfill	NAME.PAS	Site	Score	88
Air Pathway -> Targets -> Prin	mary Target Population			Ref.
Enter Number of Residents, Stu on and within 1/4 mile of t suspected air release of ha	the site of a	0		

Figure 53
Air Primary Sensitive Environments Screen

Palmetto Landfill	NAME.PAS	Site Sco	ore 88
Air Pathway -> Targets -> Prim	ary Sensitive Environmen	ts	
Sensitive Environment Name		Reference	Value
1			0
	7117-88 MA.L		
Total Pri	mary Sensitive Environme	nts Value	0
Enter Data		F10-Help Er	nd-Previous

Figure 54

Note, primary sensitive environment types are selected in the same manner as secondary sensitive environments.

2.8 Conclusion

This tutorial has covered data entry for waste characteristics, the likelihood of release of hazardous substances to the environment, and the numbers and characteristics of targets exposed or potentially exposed to contamination. To save your file and exit PA-Score...

From the Summary Screen...

Press <END>.

PA-Score Save/Exit Pop-Up Menu

Pathway	Likelihood of Release	Release Targets Characteristi Save / Exit		Pathway s Score
Ground Water				100
Surface Water Drinking Water Human Food Chain Environmental	Return to PA-Score Save changes and con Exit to DOS, save ch Exit to DOS, ignore		hanges	100 3 100 60
Soil Exposure Resident Nearby	550	275 1	100	100 100 1
Air	500 57 100		100	36

Figure 55

CURSOR to "Exit to DOS, save changes." Press <ENTER>.

To save your file under its current name...

Press <ENTER>.

You should now be at a DOS prompt or shell menu.

CHAPTER 3

PRINTING

3.1 Introduction: PA-Print Computer Program

The program to print PA-Score files is called **PA-Print**. It is a separate program from PA-Score and must be accessed from the DOS prompt. PA-Print retrieves the file(s) that you created with PA-Score and extracts entered or calculated data. The procedure for executing PA-Print is discussed below. Note that PA-Print is capable of producing PA scoresheets, a reference list, and the Preliminary Assessment form.

Note that some parts of the printing operation require familiarity with DOS and technical knowledge of your printer. Consult your systems administrator for first-time setup.

From the DOS prompt...

Type **PAPRINT**. Press **<ENTER>**.

If the program has been properly installed, the following screen appears:

					Site Score
PA-Score	Data File	s -> A:	\		
Name	Date	Time	Size	Site Name	CERCLIS Number
PALMETTO NAME	08/17/91 08/22/91	16:58 15:30	14264 14392	Palmetto Landfill Palmetto Landfill	SCD 12345678 SCD 12345678
	t F2-Char				

PA-Print File System Screen

Figure 56

This looks and operates much like the file system in the PA-Score program (see Section 2.2).

CURSOR to your NAME file. Press <ENTER>.

PA-Print Menu Screen

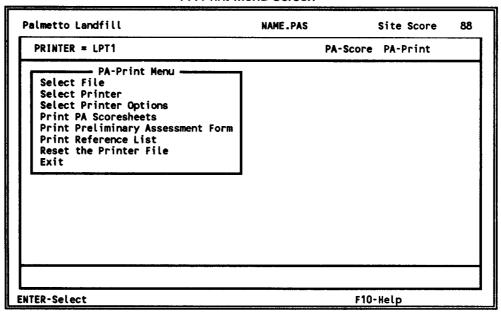


Figure 57

From the PA-Print menu you can select and configure your printer, and print PA scoresheets, reference list, and Preliminary Assessment form.

3.2 Printer Setup

The "PRINTER = " heading at the top of the screen indicates the location to which you are sending your printout (in this case LPT1). To see the different destinations to which you may print...

CURSOR to "Select Printer."
Press <ENTER>.

Printer Selection Pop-Up Menu

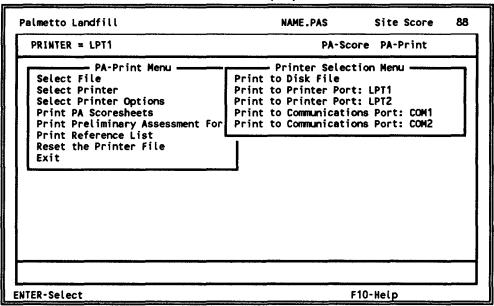


Figure 58

The printer selection menu allows you to send a file to a disk, modem, or printer port destination. Note that most printers are connected to the LPT1 port.

CURSOR to the "Print to Printer Port: LPT1" option. Press **<ENTER>**.

Note the message on the status line requesting you reset the printer file to incorporate your printer choice. To reset the printer file...

Press < ENTER >.

CURSOR to "Select Printer Options." Press **<ENTER>**.

Printer Options - Set Graphics Mode Pop-Up Menu

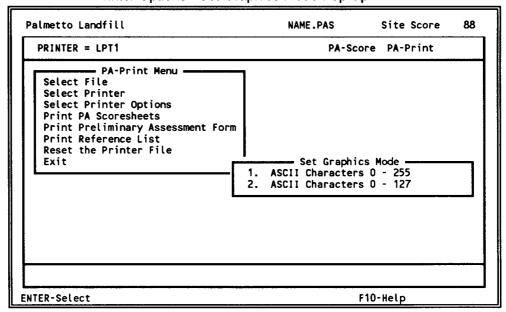


Figure 59

The printer options selection is where you tell PA-Print the capabilities of your printer. (Printer options can be saved to disk, so the following printer configuration procedures may only need to be performed once for each site file.) The "Set Graphics Mode" pop-up menu presents two options for ASCII characters. Some printers can reproduce "high order" ASCII characters such as the lines in the above screen, whereas other printers will produce nonsense characters, italic letters, or blanks. If your printer cannot reproduce high order ASCII characters, select "ASCII Characters 0 - 127." If you are unsure of your printer's capabilities, no harm will be done by choosing the high order option to find out...

CURSOR to the "ASCII Characters 0 - 255" option. Press **<ENTER>**.

Printer Options - Tabstops Pop-Up Menu

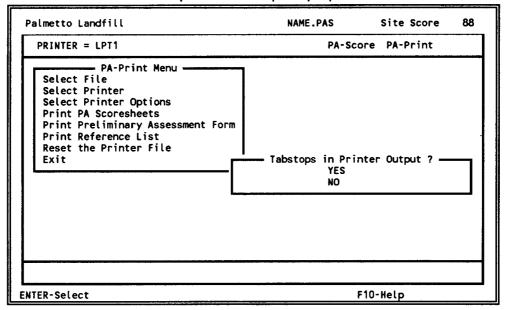


Figure 60

The next option asks if you want tabstops used in the output (as opposed to spaces). Some printers evaluate tabs differently than others. Choose the "YES" option initially, but if problems appear in the alignment of columns in printouts, go through this procedure again and select the "NO" option.

CURSOR to the "YES" option. Press **<ENTER>**.

Printer Options - Printer Control Codes Pop-Up Menu

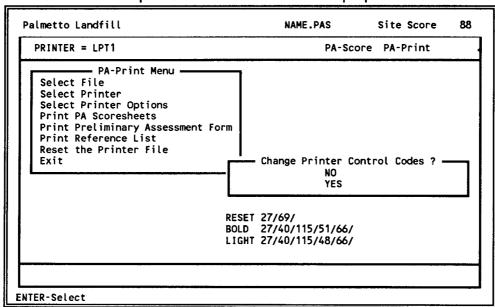


Figure 61

The final printer option allows you to define "control codes" for alternating boldface and normal type in your printouts. Use of this capability is optional, but it produces a more readable printout. The codes shown above are for the Hewlett-Packard LaserJet II, III, and IIIp Series printers. Consult your printer manual for the codes appropriate for your printer. Printer control codes for IBM ProPrinter, EPSON, and OKIDATA printers are provided below. If your printer code information is not immediately available, you can proceed without entering any.

Printer Control Codes for Common Printers

Code Type	IBM ProPrinter/EPSON (emphasized)	OKIDATA (enhanced)
RESET	blank	blank
BOLD	27/69/	27/72/
LIGHT	27/70/	27/73/

CURSOR to the "YES" option if you want to enter different control codes. Type in your appropriate control codes. Press <ENTER>.

You have now configured the printer and are ready to print. To print PA scoresheets...

CURSOR to the "Print PA Scoresheets" option. Press **<ENTER>**.

The scoresheets should now print. Messages on the status line will indicate the generation and printing of the scoresheets. You may abort a printing operation by pressing <ESC>.

Each time you print, you generate a printer file that must be erased, or reset, prior to any subsequent print operations. PA-Print prompts you each time a reset is necessary; however, you may also select "Reset the Printer File" to erase the contents of the print file that you have printed.

To exit PA-Print...

CURSOR to the "Exit" option. Press <ENTER>.

Save Printer Configurations Pop-Up Menu

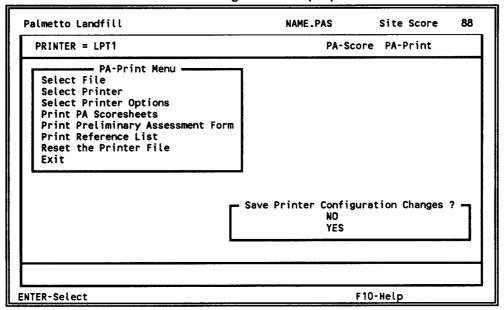


Figure 62

If you make changes under "Select Printer" or "Printer Options," the program asks if you want to "Save Printer Configuration Changes?" before exiting. If you make no changes you will exit directly to the DOS prompt.

CURSOR to "YES" to save changes. Press **<ENTER>**.

You have now exited the PA-Print program and have returned to the DOS prompt. To return to PA-Score...

Type PASCORE.

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APPENDIX A PA-SCORE COMPUTER PROGRAM STRUCTURE

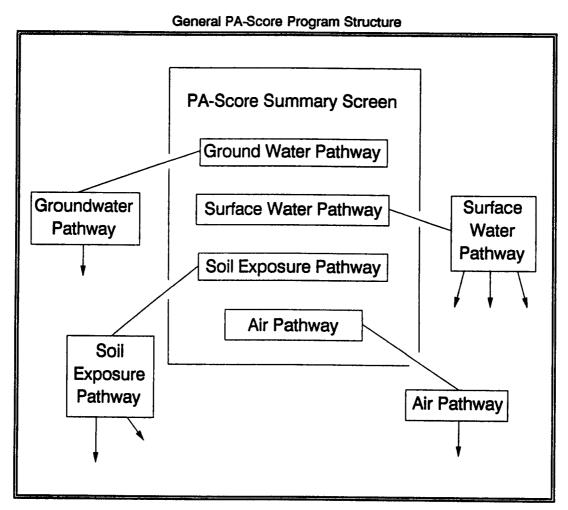


Figure A-1

PA-Score Program Structure: Ground Water Pathway **Ground Water Pathway** Waste Likelihood **Targets** of Release Characteristics **Targets Screen** Sources Screen Primary Target Population **Secondary Target Population** Source Name Nearest Well Source Type Wellhead Protection Area Waste Quantity-Resources **Primary Targets** Criteria List Screen Constituent/ Wastestream **Primary Target** Criteria List Population **Quantities Screen** Screen Screen Secondary Target Likelihood of Volume/Area **Population** Release Screen **Quantities Screen** Screen

Figure A-2

PA-Score Program Structure: Surface Water Pathway **Surface Water Pathway** Human Food Chain Threat Likelihood Targets of Release Drinking Environmental Targets Screen Water Threat Primary Fisheries Threat Criteria List Secondary Fisheries Screen **Primary Targets** Criteria List Screen Likelihood of Release Screen Human Food Chain Targets Tergets Targets Screen **Waste Characteristics** Targets Screen Likelihood Targets Screen Likelihood Primary Target Population Sources Screen of Release of Release Primary Sensitive Secondary Target Population Source Name Environments Negrest Intake Source Type Secondary Sensitive Resources Waste Quantity Criteria List Criteria List Environments Screen Screen Primary Targets Primary Target Constituent/ Criteria List Criteria List Screen Likelihood of Likelihood of Screen Release Screen Release Screen Quantities Screen **Environmental** Drinking Water Volume/Area Targets Targets Screen Quantities Screen Screen

Figure A-3

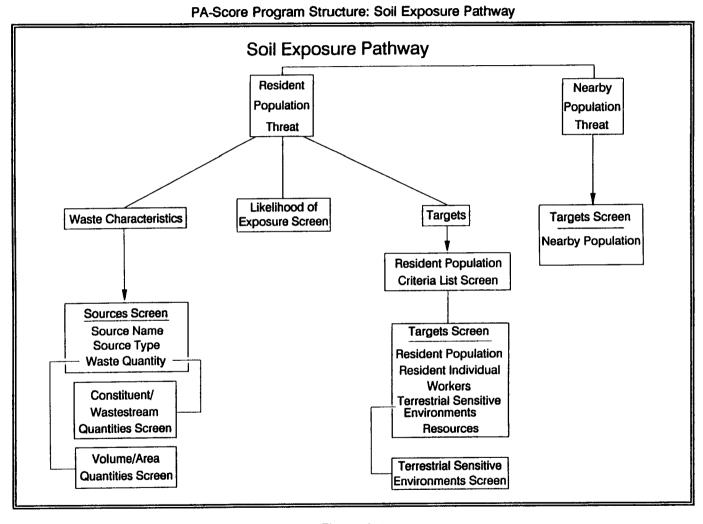


Figure A-4

PA-Score Program Structure: Air Pathway Air Pathway Waste Likelihood **Targets** of Release Characteristics **Targets Screen** Sources Screen **Primary Target Population** Source Name Secondary Target Population Nearest Individual Source Type Primary Sensitive Environment -Waste Quantity-Secondary Sensitive Environment -Resources Secondary Secondary Target Sensitive Constituent/ Population **Environment** Screen Wastestream Screen Criteria List **Quantities Screen** Screen Primary Primary Sensitive Target Environment **Population** Screen Likelihood of Volume/Area Screen Release Screen **Quantities Screen**

Figure A-5

APPENDIX B

NETWORK (LAN) USER INSTRUCTIONS

The PA-Score and PA-Print programs (PA-Score software) were designed to operate as interactive, single-user programs; however, they can be installed and used on a multi-user system, such as a local area network (LAN), with some restrictions. As PA-Score software does not possess multi-user capability, PA-Score and PA-Print can only be used by one user at a time, even in a network environment. In addition, installation of the software and printing to a printer require LAN-specific operations. Instructions for these operations are provided below.

INSTALLATION

To install PA-Score software on a LAN workstation you must first exit the system/applications shell menu. The menu should have an "Exit to DOS" option. Remember to consult the LAN systems administrator before you attempt PA-Score software installation.

CURSOR to the "Exit to DOS" option. Press **<ENTER>**.

A letter prompt, corresponding to the hard drive, should appear. To create a PA-Score subdirectory on the hard drive...

Type **md PASCORE** (<u>m</u>ake a <u>directory</u> called PASCORE). Press **<ENTER>**.

To access that subdirectory...

Type cd PASCORE (change directory to the PASCORE directory).

To load the PA-Score software files into the PASCORE subdirectory...

Type copy a:*.* (if the PA-Score or PA-Print diskette is in drive a:).

To begin the programs...

Type PASCORE or PAPRINT

PRINTING

To print to a printer, while operating PA-Print on a LAN, the PA-Print "Print to a disk file" option must be utilized. PA-Print cannot print directly to a printer on a network. After printing to a disk file the standard LAN print procedures may be employed to print the desired PA-Score information to a printer.

To print to a disk file...

From the PA-Print print menu,
CURSOR to the "Select Printer" option.
Press <ENTER>.
CURSOR to the "Print to Disk File" option.
Press <ENTER>.

Type in the name of the file and the disk drive to which the information is to be printed (for example, "a:SITE.PRT").

Press < ENTER >.

CURSOR to the "Select Printer Options" option.

Press < ENTER >.

CURSOR to the "ASCII Characters 0 - 225" option.

Press < ENTER >.

CURSOR to the "YES" option.

Press < ENTER >.

You should be at the Printer Control Codes Pop-Up Menu.

CURSOR to "Yes".

Press < ENTER >.

Erase any existing codes by typing spaces over them.

Press < ENTER >.

You have now configured PA-Print to print to a disk file.

Select the desired print task...

Press < ENTER >.

The information now exists on the disk file defined earlier (example a:site.prt). After exiting PA-Print, this disk file can be printed using standard LAN print procedures.

APPENDIX C

PA-SCORE SOFTWARE FILES/DISKETTE

The PA-Score and PA-Print programs require several files to operate. Check the enclosed diskette to be sure that the following files are present:

PA-Score Software Diskette Files

INSTALL.BAT	TUTORIAL.PAS
PASCORE.EXE	PAPRINT.EXE
PA_SCORE.PAD	PA_PRINT.CFG
PA_SCORE.SIZ	PA_PRINT.TXT
PA_HELP.PAD	PASCREEN.PAD
PA_HELP.SIZ	PASCREEN.SIZ

If the PA-Score software has been installed on the hard disk, in a PASCORE subdirectory, ensure that the following files are present in that subdirectory:

PASCORE Subdirectory Files

PASCORE.EXE	TUTORIAL.PAS
PA_SCORE.PAD	PAPRINT.EXE
PA_SCORE.SIZ	PA PRINT.CFG
PA_HELP.PAD	PA_PRINT.TXT
PA_HELP.SIZ	PASCREEN.PAD
	PASCREEN.SIZ