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International Specialists in the Environment

US EPA RECORDS CENTER REGION 5
488399

MEMORANDUM

DATE: February 6, 1990

TO: William Messenger, Chief Pre-Remedial Unit

FROM: Jerome D. Oskvarek, PIT Office Manager

SUBJECT: Transmittal Memorandum Identifying A Potential NFRAP Facility

CERCLIS Site Name: Garfield Park - Chicago Park District

City: Chicago

State: Illinois

U.S. EPA ID No.: ILD980998405

SSID No.: n/a

TDD No.: F05-8912-076

PAN: FIL0696SA

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A work plan was tasked for the above-reference site; however, due to the HRS 1 preliminary and projected calculated scores, a work plan will not be prepared. The HRS worksheets are attached to this memorandum.

Alan Altur
NFRAP
4.01
4/9/90

SI035(3/29/89)

recycled paper

HRS 1 PRELIMINARY AND PROJECTED SCORES

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

S_M= 0.00 S_{FE}= 0.00 S_{DC}= 0.00

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

S_M= 3.19 S_{FE}= 0.00 S_{DC}= 62.50

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

S_M= 4.01 S_{FE}= 0.00 S_{DC}= 62.50

HRS 1 score worksheets are attached to this memorandum.

RECOMMENDATIONS

The HRS 1 scores are below 25.00. As a result the site should be designated as a NFRAP facility.

COMMENTS

The FIT would like to make the following additional comments concerning the site.

1. The ground and surface water routes do not score because drinking water is supplied from Lake Michigan via the Chicago Water Department; the intake cribs are more than three miles away.

2 There is a large potential for direct contact because the site is an unfenced public park.

3 The actual source of the suspected heavy metals is unknown. Aerial sources, such as dry deposition, are possible.

4 FIT recommends that this site be reevaluated for direct contact threat under HRS II, when the model is final.

SI035(3/29/89)

SITE HISTORY (Continued)

Garfield Park encompasses approximately 190 acres and is located approximately 3 miles west of downtown Chicago. The park was constructed in 1872. Recreational facilities at the park include playgrounds and a lagoon for fishing. The park facilities are maintained by the Chicago Park District.

During the summer of 1984, a citizens group submitted soil samples from this site, which showed elevated levels of lead; the sampling methods were believed to be questionable at best. No dumping of waste materials is known to have been taken place at this site, and no natural marshes are known to have been filled either. Consequently, aerial sources are suspected.

References 1, 14-16

PRELIMINARY AND PROJECTED HAZARD RANKING SYSTEM SCORE WORKSHEETS

Site Name: Garfield Park - Chicago Park District (Cerclis Name)

n/a (A.K.A.)

Address: 100 N. Central Park Ave.

City/County/State/Zip Chicago, Cook, Illinois 60624

Cerclis ID # ILD 980998405 SSID n/a

Prepared by Charles G. Hall E&E Date 8 February 1990

Reviewed by Karen M. Spangler E&E Date February 12, 1990

TDD: F05-8912-076 PAN FIL0696SA

Type of Document

PA	____
PA Reassessment	____
WP-SSI	X
WP-LSI	____

PRELIMINARY HRS SCORE

S_M= 0.00 S_{FE}= 0.00 S_{DC}= 0.00

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

S_M= 3.19 S_{FE}= 0.00 S_{DC}= 62.50

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

S_M= 4.01 S_{FE}= 0.00 S_{DC}= 62.50

PRELIMINARY HRS SCORE

(THIS SCORE IS BASED ON EXISTING FILE INFORMATION THAT WAS OBTAINED PRIOR TO THE SCREENING SITE INSPECTION.)

	S	S^2
Groundwater Route Score (S_{GW}=)	0.00	0.00
Surface Water Route Score (S_{SW}=)	0.00	0.00
Air Route Score (S_A=)	0.00	0.00
$S_{GW}^2 + S_{SW}^2 + S_A^2$		0.00
$\sqrt{S_{GW}^2 + S_{SW}^2 + S_A^2}$		0.00
$\sqrt{S_{GW}^2 + S_{SW}^2 + S_A^2} / 1.73$ = S_M=		0.00

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE SCREENING SITE INSPECTION.)

	S	S^2
Groundwater Route Score (S_{GW}=)	1.49	2.22
Surface Water Route Score (S_{SW}=)	5.31	28.20
Air Route Score (S_A=)	0.00	0.00
$S_{GW}^2 + S_{SW}^2 + S_A^2$		30.42
$\sqrt{S_{GW}^2 + S_{SW}^2 + S_A^2}$		5.52
$\sqrt{S_{GW}^2 + S_{SW}^2 + S_A^2} / 1.73$ = S_M=		3.19

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE LISTING SITE INSPECTION.)

	S	S^2
Groundwater Route Score (S_{GW}=)	4.47	19.98
Surface Water Route Score (S_{SW}=)	5.31	28.20
Air Route Score (S_A=)	0.00	0.00
$S_{GW}^2 + S_{SW}^2 + S_A^2$		48.18
$\sqrt{S_{GW}^2 + S_{SW}^2 + S_A^2}$		6.94
$\sqrt{S_{GW}^2 + S_{SW}^2 + S_A^2} / 1.73$ = S_M=		4.01

GROUNDWATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	no data available	1
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: Cambrian age Galesville sandstone & Mt. Simon sandstone	
Depth to Aquifer of concern	(0) 1 2 3	x2	0	1545 ft.	2,3
Net Precipitation	0 (1) 2 3	x1	1	Precip 34 Evap 30	4
Permeability of the Unsaturated Zone	0 1 (2) 3	x1	2	10^{-3} - 10^{-5} cm/sec	2,3,5
Physical State	(0) 1 2 3	x1	0	unknown	
	Total Route Char. Score		3		
3 Containment	(0) 1 2 3	x1	0	unknown	1
4 Waste Characteristics					
Persistence	(0) 1 2 3				
Toxicity	(0) 0 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x1	0	no data available	1
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	unknown	1
	Total Waste Char. Score		1		
5 Targets					
Groundwater Use	0 (1) 2 3	x3	3	limited industrial use	6
Distance to Nearest Well / Population Served	(0) 1 2 3 4 (0) 0 0 0 0 0 1 0 4 6 8 10 2 0 8 12 16 20 3 0 12 18 24 30 4 0 16 24 32 35 5 0 20 30 35 40	x1	0	all drinking water for Lake Michigan well >3 miles away	6-8 17
	Total Targets Score		3		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 0		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	no data available	1
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: Cambrian Age Galesville Sandstone & Mt. Simon Sandstone	2,3
Depth to Aquifer of concern	(0) 1 2 3	x2	0	1545 ft.	2,3
Net Precipitation	0 (1) 2 3	x1	1	Precip 34 Evap 30	4
Permeability of the Unsaturated Zone	0 1 (2) 3	x1	2	10^{-3} - 10^{-5} cm/sec	2,3,5
Physical State	0 1 (2) 3	x1	2	assume small particles	-
	Total Route Char. Score		5		
3 Containment	0 1 2 (3)	x1	3	assume ground deposition and no liner	
4 Waste Characteristics					
Persistence	0 1 2 (3)				
Toxicity	0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 (3): 9 12 15 (18)	x1	18	lead and other heavy metals suspected	1
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	unknown	
	Total Waste Char. Score		19		
5 Targets					
Groundwater Use	0 (1) 2 3	x3	3	limited industrial use	6
Distance to Nearest Well	(0) 1 2 3 4			all drinking water fr. Lake Michigan	6-8
Population Served	(0): 0 0 0 0 0 1: 0 4 6 8 10 2: 0 8 12 16 20 3: 0 12 18 24 30 4: 0 16 24 32 35 5: 0 20 30 35 40	x1	0	well >3 miles away	17
	Total Targets Score		3		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			855		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 1.49		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 (45)	x1	45	with monitoring wells	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description:	
Depth to Aquifer of concern	0 1 2 3	x2		ft.	
Net Precipitation	0 1 2 3	x1		Precip Evap	
Permeability of the Unsaturated Zone	0 1 2 3	x1		cm/sec	
Physical State	0 1 2 3	x1			
	Total Route Char. Score				
3 Containment	0 1 2 3	x1			
4 Waste Characteristics					
Persistence	0 1 2 (3)				
Toxicity	0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 (3): 9 12 15 (18)	x1	18	lead and other heavy metals suspected	1
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	unknown	
	Total Waste Char. Score		19		
5 Targets					
Groundwater Use	0 (1) 2 3	x3	3	limited industrial use	6
Distance to Nearest Well Population Served	(0) 1 2 3 4 (0): 0 0 0 0 0 1: 0 4 6 8 10 2: 0 8 12 16 20 3: 0 12 18 24 30 4: 0 16 24 32 35 5: 0 20 30 35 40	x1	0	all drinking water fr. Lake Michigan well >3 miles away	6-8 17
	Total Targets Score		3		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			2565		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 4.47		

SURFACE WATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	no data available	1
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil <3 %	9
Intervening Terrain / Facility Slope	(0) 0 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x1	0	Interv <3 %	9
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.4 in.	10
Distance to Nearest Surface Water	0 1 2 (3)	x2	6	natural lagoon on-site	9,15,16
Physical State	(0) 1 2 3	x1	0	no data available	
	Total Route Char. Score		8		
3 Containment	(0) 1 2 3	x1	0	no data available	1
4 Waste Characteristics					
Persistence / Toxicity	(0) 1 2 3 (0) 0 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x1	0	no data available	1
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	unknown	1
	Total Waste Char. Score		1		
5 Targets					
Surface Water Use	0 1 (2) 3	x3	6	recreation	13
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	>1 mile	9,11
Population Served / Distance to Water Intake Downstream	(0) 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1	0	all drinking water fr. Lake Michigan intakes >3 miles	6-9
	Total Targets Score		6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 0				

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	no data available	1
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil <3 %	9
Intervening Terrain / Facility Slope	(1) 0 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x1	0	Interv <3 %	9
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.4 in.	10
Distance to Nearest Surface Water	0 1 2 (3)	x2	6	natural lagoon on-site	9,15,16
Physical State	0 1 (2) 3	x1	2	assume small particles	
	Total Route Char. Score		10		
3 Containment	0 1 2 (3)	x1	3	assume ground deposition and no liner	
4 Waste Characteristics					
Persistence / Toxicity	0 1 2 (3) 0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 (3): 9 12 15 (18)	x1	18	lead and other heavy metals suspected	1
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	unknown	1
	Total Waste Char. Score		19		
5 Targets					
Surface Water Use	0 1 (2) 3	x3	6	recreation	13
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	>1 mile	9,11
Population Served / Distance to Water Intake Downstream	(0) 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1	0	all drinking water from Lake Michigan intakes > 3 miles away	6-9
	Total Targets Score		6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3420		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 5.31		

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	not expected	1
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics	Intervening Terrain Facility Slope: (0) 0 0 0 3; 0 1 1 2 3; 0 1 2 2 3; 0 2 2 3 3; 0 2 3 3 3	x1	0	Facil <3 % Interv <3 %	9 9
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.4 in.	10
Distance to Nearest Surface Water	0 1 2 (3)	x2	6	natural lagoon on-site	9, 15, 16
Physical State	0 1 (2) 3	x1	2	assume small particles	
	Total Route Char. Score		10		
3 Containment	0 1 2 (3)	x1	3	assume ground deposition and no liner	
4 Waste Characteristics					
Persistence	0 1 2 (3)			lead and other heavy	
Toxicity	0: 0 0 0 0; 1: 3 6 9 12; 2: 6 9 12 15; (3): 9 12 15 (18)	x1	18	metals suspected	1
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	unknown	
	Total Waste Char. Score		19		
5 Targets					
Surface Water Use	0 1 (2) 3	x3	6	recreation	13
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	>1 mile	9, 11
Population Served	Distance to Water Intake Downstream: (0) 0 0 0 0; 0 4 6 8 10; 0 8 12 16 20; 0 12 18 24 30; 0 16 24 32 35; 0 20 30 35 40	x1	0	all drinking water from Lake Michigan intakes > 3 miles away	6-9
	Total Targets Score		6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3420		
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 5.31				

AIR ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 45	x1	0	no data available	1
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	not expected	
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	not expected	
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population Pop. 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

FIRE AND EXPLOSION N/A

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 3	x1			
2 Waste Characteristics					
Direct Evidence	0 3	x1			
Ignitability	0 1 2 3	x1			
Reactivity	0 1 2 3	x1			
Incompatability	0 1 2 3	x1			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0 1 2 3	x1			
Dist. to Sensitive Env.	0 1 2 3	x1			
Land Use	0 1 2 3	x1			
Pop. Within 2 miles	0 1 2 3 4 5	x1			
Bldgs. Within 2 miles	0 1 2 3 4 5	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 0		

FIRE AND EXPLOSION N/A

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 3	x1			
2 Waste Characteristics					
Direct Evidence	0 3	x1			
Ignitability	0 1 2 3	x1			
Reactivity	0 1 2 3	x1			
Incompatability	0 1 2 3	x1			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0 1 2 3	x1			
Dist. to Sensitive Env.	0 1 2 3	x1			
Land Use	0 1 2 3	x1			
Pop. Within 2 miles	0 1 2 3 4 5	x1			
Bldgs. Within 2 miles	0 1 2 3 4 5	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 0		

FIRE AND EXPLOSION N/A

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 3	x1			
2 Waste Characteristics					
Direct Evidence	0 3	x1			
Ignitability	0 1 2 3	x1			
Reactivity	0 1 2 3	x1			
Incompatability	0 1 2 3	x1			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 4 5	x1			
Dist. to Nearest Bldg.	0 1 2 3	x1			
Dist. to Sensitive Env.	0 1 2 3	x1			
Land Use	0 1 2 3	x1			
Pop. Within 2 miles	0 1 2 3 4 5	x1			
Bldgs. Within 2 miles	0 1 2 3 4 5	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3					
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 0		

DIRECT CONTACT

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	no incidents reported	1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	x1	3	public park	1
3 Containment	(0) 15	x1	0	no data available	1
4 Waste Characteristics					
Toxicity	(0) 1 2 3	x5	0	no data available	1
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 (5)	x4	20	>10000 people	12
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	>1 mile	
	Total Targets Score		20		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 21,600 and multiply by 100		S_{DC} = 0			

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	no incidents expected	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	x1	3	public park	1
3 Containment	0 (15)	x1	15	assume no containment	
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	lead and other heavy metals expected	1
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 (5)	x4	20	> 10000 people	12
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	> 1 mile	9,11
	Total Targets Score		20		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			13500		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 62.50		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	no incidents expected	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	x1	3	public park	1
3 Containment	0 (15)	x1	15	assume no containment	
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	lead and other heavy metals suspected	1
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 (5)	x4	20	>10000 people	12
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	>1 mile	9,11
	Total Targets Score		20		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			13500		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 62.50		

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