

APPENDIX C - DETAILED DATA ANALYSES

No Current Use/Vacant Land Detailed Results

As part of Region 3's Hazardous Waste Cleanup Sites Land Use & Reuse Assessment, site managers reported acres at sites with no current land use or vacant land. Additionally, site managers reported any acres of the no current use/vacant areas where reuse was not recommended. Results are as follows.

General Results

Of the 511 total sites surveyed, 166 sites (32%) of the sites surveyed indicated that some or the all of the site is currently not being used. Ninety-eight sites are totally vacant and 68 sites are partially vacant.

On these 166 sites, 17,143 acres (17%) of the total possible land area is vacant.

Of the 17,143 vacant acres, 2,680 (16%) are not recommended for reuse. Sixty percent of the vacant land not recommended for reuse is inactive waste disposal areas (landfills). This leaves 14,463 vacant acres (84%) that have some potential for future reuse.

Vacant land is evenly divided among the programs with each program having approximately 1/3 of the total vacant acres. However, since Superfund NPL accounts for only 7% of the total land considered, its portion accounts for a larger percentage of vacant acres as compared to the other programs. In addition, 36% of vacant land at Superfund NPL sites is not recommended for reuse.

Program Specific Results

Superfund NPL (Non-Federal Facilities): 61% of the number of sites reporting vacant lands and 34% of the total vacant acres are at Superfund NPL sites.

- Of the 174 Superfund NPL sites surveyed, 101 (58%) indicate that all or a portion of the site is currently not being used. Fifty eight sites are totally vacant and 43 sites are partially vacant.
- On these 101 sites, 5,886 acres (35%) of Superfund NPL land (2% of the total land surveyed) is vacant.
- Of the 5,886 vacant acres, 2,119 (36%) are not recommended for reuse. This leaves 3,767 vacant acres (64%) that have some potential for future reuse.

Federal Facilities: 6% of the number of sites reporting vacant land and 38% of the total vacant acres are at Federal Facilities.

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- Of the 57 Federal Facilities surveyed, 10 (18%) indicate that all or a portion of the site is currently not being used. Two sites are fully vacant and 8 are partially vacant.
- On these 10 sites, 6,485 acres (4%) of all federal land (3% of the total land surveyed) is vacant.
- Of the 6,485 vacant acres, 490 (8%) was not recommended for reuse. This leaves 5,995 vacant acres (92%) that have some potential for future reuse.

RCRA Corrective Action (Non-Federal Facilities): 33% of the number of sites reporting vacant lands and 28% of the total vacant acres are at RCRA sites.

- Of the 280 RCRA sites surveyed, 55 (20%) indicate that all or a portion of the site is currently not being used. Thirty eight sites are completely vacant and 17 are partially vacant.
- On these 55 sites, 4,772 acres (7%) of RCRA acres (2% of the total land surveyed) is vacant.
- Of the 4,772 vacant acres, 71 (1%) are not recommended for reuse. This leaves 4,701 vacant acres (99%) that have some potential for future reuse.

Vacant Land Data

Table 1: Vacant Land by Sites

Program	Sites Surveyed	Sites w/ Vacant Land	% of Sites w/ Vacant Land
Federal Facilities	57	10	18%
RCRA	280	55	20%
Superfund NPL	174	101	58%
Total	511	166	32%

Table 2: Vacant Land by Acres

Program	Total Acres Surveyed	Vacant Land (Acres)	Acres Not Recommended for Reuse	Acres w/ Potential for Reuse	% of Vacant acres with Potential Future Reuse
Federal Facilities	145,965	6,485	490	5,995	92%
RCRA	67,823	4,772	71	4,701	99%
Superfund NPL	16,706	5,886	2,119	3,767	64%
Total	230,494	17,143	2,680	14,463	84%

Region 3 also considered the amount of vacant land that was associated with inactive waste disposal areas and whether those areas were actively being reused or whether these areas were recorded as “not recommended for reuse” because of complications with waste left in place on the site.

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The results vary significantly by program. In RCRA, all the vacant acres listed as not recommended for reuse were inactive waste disposal areas. In the Superfund program, 65% of vacant acres not recommended for reuse were associated with inactive waste disposal areas.

Table 3: Inactive Waste Disposal Areas on No Current Use/Vacant Land

Program	Total no current use/vacant acres	Vacant inactive waste disposal acres	% of inactive waste disposal areas on vacant land
Federal Facilities	6,485	340	5%
RCRA	4,772	1,156	24%
Superfund NPL	5,886	1,594	27%
Total	17,143	3,090	18%

Table 4: Acres of Land with Inactive Waste Disposal Areas that are Not Recommended for Reuse

Program	Total vacant acres not recommended for reuse	Vacant acres w/ inactive waste disposal not recommended for reuse	% of land w/ inactive waste disposal that is not recommended for reuse
Federal Facilities	490	133	27%
RCRA	71	71	100%
Superfund NPL	2,110	1,393	65%
Total	2,680	1,597	60%

Economic Benefits Information

The tables below outline both the general (yes/no) results and those reporting detailed data in the Benefits of Use/Reuse, Section E on Region 3's Land Use/Reuse Assessment Form.

Jobs	Total Sites Surveyed	Sites Reported (Yes)	% of Survey Sites	Reported Details	% of Survey Sites	No. of Jobs
Federal Facilities	57	16	28%	4	7%	1,888
RCRA	280	60	21%	22	8%	21,980
Superfund NPL	174	26	15%	12	7%	642
Total	511	102	20%	38	7%	24,986

Houses	Total Sites Surveyed	Sites Reported (Yes)	% of Survey Sites	Reported Details	% of Survey Sites	No. of Houses
Federal Facilities	57	4	7%	0	0%	N/R
RCRA	280	4	1%	2	0.7%	150
Superfund NPL	174	5	3%	5	3%	19
Total	511	13	3%	7	1%	189

Reuse Investment	Total Sites Surveyed	Sites Reported (Yes)	% of Survey Sites	Reported Details	% of Survey Sites	Investment
Federal Facilities	57	9	16%	3	5%	\$328 M
RCRA	280	17	6%	5	2%	\$3.5B
Superfund NPL	174	7	4%	4	2%	\$155M
Total	511	33	6%	12	3%	0

Change in Property Value	Total Sites Surveyed	Sites Reported (Yes)	% of Survey Sites	Reported Details	% of Survey Sites	Property Value
Federal Facilities	57	10	18%	0	0.0%	N/R*
RCRA	280	12	4%	1	0.4%	
Superfund NPL	174	12	7%	4	2.3%	
Total	511	34	7%	5	1%	

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Tax Revenue	Total Sites Surveyed	Sites Reported (Yes)	% of Survey Sites	Reported Details	% of Survey Sites	Tax Dollars
Federal Facilities	57	7	13%	0	0%	N/R
RCRA	280	33	12%	1	0%	\$2.2 M
Superfund NPL	174	12	7%	0	0%	N/R
Total	511	52	10%	1	0%	N/R

Partnerships	Total Sites Surveyed	Sites Reported (Yes)	% of Survey Sites	Reported Details	% of Survey Sites	
Federal Facilities	57	9	16%	2	4%	
RCRA	280	9	3%	9	3%	
Superfund NPL	174	7	4%	4	2%	
Total	511	25	5%	15	3%	

*N/R = Not Reported

Enhanced Ecological Use Information

Region 3 collected information on areas where enhanced ecological use was occurring on hazardous waste cleanup sites. For the purposes of this study, the definition of enhanced ecological use is “property where *proactive* measures, including conservation easement, have been implemented to create, restore, protect or enhance a habitat for terrestrial and /or aquatic plants and animals, such as wildlife sanctuaries, nature preserves, meadows and wetlands.”

General Results

Of the 511 total sites surveyed, 40 sites (8%) indicated that some or all of the site is currently or is planned to be put into enhanced ecological use.

On these 40 sites, 6,856 acres (3%) of the total land area surveyed is enhanced ecological use.

Of the 40 sites reporting enhanced ecological areas, on average, approximately 20-40% of the land area at each site is enhanced ecological, with four sites being completely reused as enhanced eco areas.

In addition, 23 other sites have indicated that open space and/or sustainable reuse were a site benefit.

Program Specific Results

Superfund NPL (non Federal Facilities): 11% of land in the enhanced ecological category occurs on Superfund NPL sites

- Of the 174 Superfund NPL sites surveyed, 16 sites (9%) indicated that some or all of the site is currently or is planned to be put into enhanced ecological use.
- On these 16 sites, 723 acres (4%) of the Superfund NPL land surveyed (<1% of the total land surveyed) reported enhanced ecological use.
- Of those Superfund NPL sites with ecological enhancements, on average, approximately 42% of the land area at each site has been ecologically enhanced.
- In addition, 12 other Superfund NPL sites indicated that open space and/or sustainable reuse were a site benefit.

Federal Facilities: 75% of land in the enhanced ecological category occurs on Federal Facilities

- Of the 57 Federal Facilities surveyed, 13 sites (23%) indicated that some or all of the site is currently or is planned to be put into enhanced ecological use.
- On these 13 sites, 5,139 acres (4%) of all Federal Facilities land surveyed (2% of the total land surveyed) is enhanced ecological use.
- Of those Federal Facilities with ecological enhancements, on average, approximately 33% of the land area at each site has been ecologically enhanced.
- In addition, 6 other Federal Facilities indicated that open space and/or sustainable reuse were a site benefit.

RCRA Corrective Action (non Federal Facilities): 14% of land in the enhanced ecological category occurs on RCRA sites.

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- Of the 280 RCRA sites surveyed, 11 sites (4%) indicated that some or all of the site is currently or is planned to be put into enhanced ecological use.
- On these 11 sites, 994 acres (1%) of RCRA land surveyed (< 1% of the total land surveyed) is enhanced ecological use.
- Of those RCRA sites with ecological enhancements, approximately 22% of the land area at each site has been ecologically enhanced.
- In addition, 5 other RCRA sites indicated that open space and/or sustainable reuse were a site benefit.

Table 1: Enhanced Ecological Use - Results by Site

Program	Total Sites Surveyed	Sites w/ Enhanced Ecological Acres		Sites also Reporting Open Space or Sustainable Use	
		Count	Percentage	Count	Percentage
Federal Facilities	57	13	23%	6	11%
RCRA	280	11	4%	5	2%
Superfund NPL	174	16	9%	12	7%
All Sites	511	40	8%	23	5%

Table 2: Enhanced Ecological Use - Results by Acres

	Total Acres Surveyed	Total Ecologically Enhanced Acres	Percentage	Total Continued Use	Total Reused	Total Planned Reuse
Federal Facilities	145,965	5,139	4%	4,230	802	107
RCRA	67,823	994	1%	48	600	346
Superfund NPL	16,706	723	4%	123	247	353
All Sites	230,494	6,856	3%	4,401	1,649	806

Table 3: Average Portion of Land Area in Enhanced Ecological (EE) Use

	Average Acres/Site	Average % of Enhanced Eco Use For Sites w/ Enhanced Eco Use
Federal Facilities	93	31%
RCRA	4	22%
Superfund NPL	4	42%
All Sites	13	33