1.6 SF/AR

State of Washington

Department of Ecology

Toxics Cleanup Program

SITE HAZARD ASSESSMENT

DATA COLLECTION SUMMARY SHEETS

FOR

WASHINGTON RANKING METHOD

SPOKANE JUNKYARD SITE

Completed by Morrison Knudsen Corporation

November 27, 1990

1.6

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35590

8/30/90

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
TOXICS CLEANUP PROGRAM

SITE HAZARD ASSESSMENT DATA COLLECTION SUMMARY SHEETS
FOR
WASHINGTON RANKING METHOD

Site Name: Spokane Junkyard and Associated Sites

Location: SE¼, SE¼ S.4 T25N R43W

Site owner/operator: Patrick A. Corigliano / Richard C. Dullanty

Address: North 3322 Cook St., Spokane, WA

Any other known PLP(s): See List of Selected Reference Data

Address: _____

Site Number: _____

Date(s) of field site hazard assessment: Nov. 8, 1990

Samples or field measurements: 0 soil
0 surface water
0 air
0 ground water

(Attach copies of pertinent sampling and analytical data, as well as all other supporting documentation.)

Photographs: _____

Weather: Overcast, windy, temperature in high 40's.

Lead inspector: Alan Parker

Other inspectors: Susan Evans

Signature: Alan M. Parker 11-28-90

PART I: Hazardous Substances

NOTE: Page numbers, or worksheet numbers, shown in parentheses refer to the WARM Scoring Manual.

A. LIST

List hazardous substances, known or suspected (check k or s), currently at the property, or that have been previously(check c or p) at the property:

Hazardous Substance K S C P	Quantity	Units
1. Flammable Liquids (K)(P)	23	drums
2. Non-flammable Liquids (Oil)(K)(P)	13	drums
3. Neutral Liquids (K)(P)	10	drums
4. Acids (K)(P)	1	drums
5. Bases (K)(P)	3	drums
6. Oxidizer (K)(P)	1	drums
7. Solids (K)(P)	110	drums
8. Asbestos (K)(P)	120	cubic yards
9.		
10.		

Additional?_____(list on attachment)

By which routes are these available?

Number(from above)	Surface Water	Air	Groundwater
1. 1			x
2. 2			x
3. 3			x
4. 4			x
5. 5			x
6. 6			x
7. 7			x
8. 8		x	
9.			
10.			

B. SOURCES

Check those known or observed:

__x__ drums or other containers
__x__ electrical transformers
_____ above ground tanks
_____ below ground tanks
_____ ponds, pits, or other impoundments
_____ pipelines (other than water, sewer, or gas)
_____ floor drains
_____ exterior drains for rainwater, surface waters, spills, etc.
_____ other? Identify: _____

C. INDICATORS

Check those known or observed:

__x__ discolored soils
__x__ disturbed soils
_____ discolored standing water
_____ unusual or noxious odors
_____ sick or dead vegetation
_____ groundwater monitoring wells
_____ other? Identify: _____

If any are checked in B or C, explain details including exact locations (identify location in a map or drawing).

Additional information: Refer to maps in List of Selected Reference Data.

PART II: Releases

A. KNOWN OR SUSPECTED RELEASES

List those hazardous substances identified (by number) in I.A. which are known or suspected to have been released:

Substance (#)	Quantity Released	Units	When	Location
#7	110	drums	1936-1987	See Site Map
#8	120	cy	1936-1987	See Site Map

Additional information/reference? _____

B. SOURCES AND IMPACTS (Pages A-9, 10)

List those hazardous substances identified (by number) in II.A. and identify the source and impact:

Substance No.	Source	Impacts/affects To	Area
#7	drums	Groundwater	880 s.f.
#8	Insulation	Air	3,240 s.f.

III. Migration Potential

A. CONTAINMENT--LANDFILLS (SW-7; A-12; GW-8,9)

Present? No How many?_____

Check those that apply:

1. _____An engineered, maintained run-on/run-off control system
2. _____An engineered/maintained cover without ponding
3. _____Unmaintained run-on/runoff control system or cover
4. _____No run-on/runoff control or no cover
5. _____Uncontaminated soil cover greater than 6" thick
6. _____Uncontaminated soil cover less than 6" thick
7. _____Contaminated soil used as cover
8. _____A functioning vapor collection system
9. _____Mixing or agitation used
10. _____No liner
11. _____Single clay or compacted soil liner (permeability_____cm/sec)
12. _____Single synthetic liner (permeability_____cm/sec)
13. _____Double liner system (permeability_____cm/sec)
14. _____Leachate collection system, maintained and functioning
15. _____Leachate collection system, unknown condition or not functioning
16. _____Liquid wastes <u>may</u> have been disposed of
17. _____Liquid wastes <u>were</u> disposed of in landfill
18. _____Reliable evidence <u>no</u> liquid wastes were disposed

Additional comments:_____

_____

_____

B. CONTAINMENT--SURFACE IMPOUNDMENTS (SW-7, 8; A-13; GW-10,11)

Present No How many?_____

Check those that apply:

1. _____The dike is apparently sound

2. _____The dike is regularly inspected and maintained

3. _____There is evidence of failure, erosion, slumping, or release of contents

4. _____Two feet of freeboard maintained automatically

5. _____The freeboard is manually controlled so that there is at least 2 feet of freeboard

6. _____Evidence of insufficient freeboard (<2 ft.)

7. _____A maintained cover

8. _____Unmaintained cover, no cover

9. _____No liner

10. _____Single synthetic liner

11. _____Single clay or compacted soil liner

12. _____Double liner

13. _____Working leak detection system

14. _____Evidence of loss of fluid (other than by evaporation)

Additional comments:_____

C. CONTAINMENT--DRUMS AND SMALL CONTAINERS (SW-9; A-11; GW-11)

Present____No_____ How many?_____

Check those that apply:

1. _____No functional containment

2. _____There is secondary containment capacity for the total volume ofcontainers

3. _____There is secondary containment with capacity for at least 110% ofvolume of the largest container

4. _____The secondary containment is less than 110% of the volume of thelargest container

5. _____The containers are stored in single, or double layers on pallets,or in racks

6. _____The containers are stored in an unstable manner

7. _____Some containers are open or have visible liquid

8. _____Some containers are leaking

9. _____Containers are protected from weather

10. _____Containers showing deterioration

11. _____Containment surface is impervious

12. _____Containment surface has cracks or semi-permeable

13. _____No base material/permeable base such as gravel/base materials unknown

13. _____Containment is regularly inspected and maintained

14. _____Evidence of containment failure

Additional comments:_____

D. CONTAINMENT--STORAGE TANKS (SW-9; A-11; GW-11)

Present? No How many?_____

Check those that apply:

1. _____Secondary containment with a capacity of 110% of the volume of the tanks

2. _____Secondary containment at least 50% of the volume of all tanks

3. _____Containment system with capacity for at least 10% of volume of containers or tanks

4. _____No containment, or less than 10% capacity

5. _____Tank volumes maintained

6. _____Automatic controls used for volume maintenance

7. _____Tanks are covered

8. _____Uncovered tanks have aeration, mixing, or heating of tank contents

9. _____Containers sealed, protected

10. _____Containers sealed, not protected

11. _____Containers deteriorated

12 _____Containers leaking

13. Record the #s of above which apply <u>only</u> to above ground tank_____

14. Record the #s of above which apply <u>only</u> to below ground tanks _____

15. Record the #s of above which apply to <u>both</u> above and below ground tanks: _____

Additional comments_____

_____

_____

_____

_____

E. CONTAINMENT--WASTE PILES (SW-10; A-13; GW-12,13)

Present? No How many?_____

Check those that apply:

1. _____Waste pile is outside, no protecting structure

2. _____Waste pile is outside, in open structure with roof

3. _____Waste pile is outside, with partial or unmaintained cover

4. _____Waste pile is outdoors, with maintained cover

5. _____No cover is present

6. _____Waste pile is fully enclosed, intact building

7. _____There is an engineered run-on/run-off control

8. _____The run-on/run-off is maintained

9. _____Run-on/runoff control present, unknown condition

10. _____No run-on/runoff control system present, or unknown if present

11. _____Liner or base present; _____Not present.

12. _____Single clay or compacted soil liner

13. _____Single synthetic liner

14. _____Double liner

15. _____Maintained, functioning leachate collection system

16. _____Leachate collection system;____Unknown condition; or _____Not functioning.

Additional comments_____

F. CONTAINMENT--SPILLS, DISCHARGES, AND CONTAMINATED SOIL (SW-10, 11; A-13,14; GW-13)

Check those that apply:

1. __x__ Spill, discharge, or contaminated soil only in the subsurface at the site--including dry wells, drain fields, leaking underground storage tanks

2. _____ Soil contamination that has been covered partially excavated and filled with at least 6 inches of clean soil

3. _____ Soil contamination that has been covered or partially excavated and filled with less than 6 inches of clean soil

4. _____ Uncontaminated soil cover >2 feet thick

5. _____ No cover; or _____ Cover <2" but > 6" thick

6. _____ Spill, discharge, or contaminated soil present at the surface in an area with maintained run-on/run-off control

7. _____ Spill, discharge, or contaminated soil present at the surface in an area with unmaintained run-on/run-off controls?

8. _____ Spill, discharge, or contaminated soil present at the surface with no run-on/run-off control or unknown controls?

9. _____ Contaminated soil has been disturbed or excavated and stored above grade

10. _____ A functioning vapor recovery system

11. _____ No vapor recovery system

Additional comments_____

G. CONTAINMENT--SITE CHARACTERISTICS

(SW-11,12; A-6; Worksheet 5)

1. How would you evaluate the site soils? Circle predominant textural class.

x	Sand, gravel, sandy gravel, well-graded sand, well-graded gravel, gravelly sand, gravelly sand loam, silty sandy loam?
_____	Poorly-graded sands with fines, silt-sand mixtures, loam, silt loam, sandy silt loam, clayey sand, clay sand loam?
_____	Clayey sands, sand-clay mixtures, clayey gravels, clay-sand-gravel mixtures, inorganic silts, clayey silt loam, silty clay loam, porous rock outcrop, sandy silty clay, sandy clay loam?
_____	Clay (organic and inorganic), clay loam, rock outcrop, peat, peaty clay?

Is the above based on personal observation, lab analysis, or professional judgement by a soil expert? (circle)

2. What is the total annual precipitation? 16.7 inches/yr (SW-12; W/S 5)

3. What is the maximum 2-year, 24 hour precipitation? 1.4 inches ((SW-14; W/S 5)

4. Is the site not in a flood plain? yes (SW-14; W/S 5)
   Is the site in a 500 year flood plain? unknown
   Is the site in a 100 year flood plain? unknown

5. What is the terrain slope to the nearest surface water? 6.0 % (SW-14,15; W/S 5)

6. What is the subsurface hydraulic conductivity? $>10^{-3}$ cm/sec (GW-14; W/S 6)

7. What is the vertical depth from the deepest point of known contamination to ground water? 30 - 40 feet (GW-15; W/S 7)

Additional comments:

IV. Targets

A. DISTANCE TO SURFACE WATER (SW-16)

1. What surface water(s) (lake, stream, river, pond, bay, etc.) is/are within 10,000 feet (downgradient) of the site?

Name	Dist.-ft.	Obs.	Meas.
Spokane River	2,600		x

None?_____.Comments_____

2. What drinking water intakes are within 2 miles of the site? (all lake intakes, river intakes downstream only) (SW-12; W/S 5)

None? None

Source	Location	Pop. Served

3. How much acreage (anywhere) is irrigated by surface water intakes (downstream only) or wells(anywhere) within 2 miles of the site? (SW-16; GW-18; W/S 5; W/S 7)

None? None

SURFACE WATER: Acres None (1600 acres max.)

Source(s)_____;

GROUNDWATER: Acres None (4500 acres max.)

Source(s)_____

4. What is the distance to the nearest fishery resource (total of overland distance plus downgradient distance)? (SW-17; W/S 5)

Over 10,000 feet?____ Distance if less than 10,000 feet? 2,600 ft.

5. What is the distance to the nearest sensitive environment (total of overland distance plus downgradient distance)? (SW-18; A-15; W/S 5)

Over 10,000 feet?____ Distance if less than 10,000 feet? 2,000 ft. Hayes Park, 2,000 ft.; Minnehaha Park, 5,500 ft.; Garry Chief Park, 6,000 ft.

6. Is the aquifer a federally-designated sole source aquifer? yes (GW-16; W/S 7)

7. Is the ground water used for: (GW-16; W/S 7)

- x private supply
- x public supply
- x irrigation of human food crops or livestock
- x non-food (human) vegetation
- ____ not used due to natural contaminants
- ____ ground water not used, but usable

8. Distance to nearest drinking water well? 0.5 - 1.0 mi. ~~feet~~ (GW-17; W/S 7)

9. Is there an alternate source available to groundwater for private or public water supply? yes

10. Population served by drinking water wells within 2 miles? >10,000 (GW-17; W/S 7)

11. Distance to the nearest population? 300 feet (A-15, 16; W/S 6)

12. Population within one-half mile radius? 8,400 (A-16; W/S 6)

Additional comments:

COPIES OF SELECTED REFERENCE DATA

- Summary Report (1 page)
- General Location Map (1 page)
- Site Layout Map (1 page)
- List of Potentially Responsible Parties, August 1987 (3 pages)
- EPA Waste Summary Report August 3, 1987 (1 page)
- Analytical results from the Site Inspection Report, August 8, 1990
  (18 pages)

LIST OF REFERENCES

1. Site Inspection Report for Spokane Junkyard and Associated Sites, Spokane, Washington. August 1988

2. EPA Memorandum, July 7, 1987.

3. Waste Summary for Spokane Junkyard Site. August 3, 1987

SPOKANE JUNKYARD SITE SUMMARY REPORT

MK has conducted a site hazard assessment at the Spokane Junkyard site in Spokane, Washington and has gathered sufficient environmental data to enable the site to be scored by the Washington Ranking Method (WARM). This information has been used to complete the Site Hazard Assessment Data Collection Summary Sheets (SHADCSS).

The Spokane Junkyard site is located in a developed residential area of Spokane, Washington. The site encompasses an abandoned junkyard, an inactive metal scrapping/recycling facility, a residential lot and a vacant field. The site operated from 1936 to 1987 as a junkyard and scrap metal recycler. Wastes resulting from on-site activity included various kinds of scrap metal parts, vehicles, and transformers.

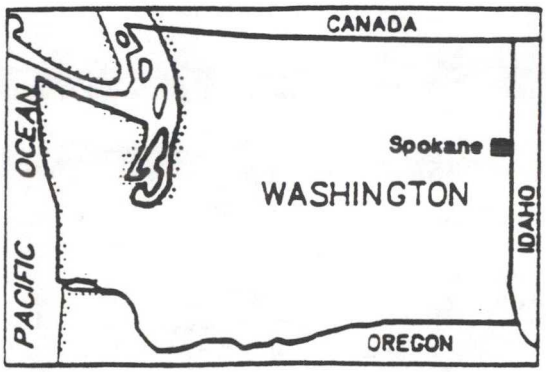
Initial investigations and sampling by the EPA included characterization, consolidation, and removal of on-site drummed waste streams (PCB oils, flammable liquids and solids, halogenated liquid and solids, and asbestos), and on- and off-site soil sampling. Results of soil sampling indicated areas of heavy metal and PCB contamination. A Site Inspection and sampling program was conducted by E&E for EPA in December 1987/February 1988. EPA has conducted several interim actions including fencing, soil removal, and partial capping.

MK did not walk the site however the site was viewed by driving around the entire perimeter. MK staff met with EPA personnel in Seattle and reviewed the files on the site. Any data that was not in the Ecology files was copied and sent to the Eastern Region Office.

Francis Ave.
Highway 291
Monroe St.
Division St.
Nevada St.
Crestline St.
Market St.
Wellesley Ave.
Garland Ave.
Cook St.
Lacey St.
SPOKANE JUNKYARD
Bridgeport Ave.
Euclid Ave.
Frederick Ave.
Highway 395
Illinois Ave.
FELTS FIELD
Indiana Ave.
SPOKANE
RIVER
Washington St.
Mission Ave.
Trent Ave.
Trent Ave.
Sprague Ave.
Highway 395
3rd Ave.
Interstate 90

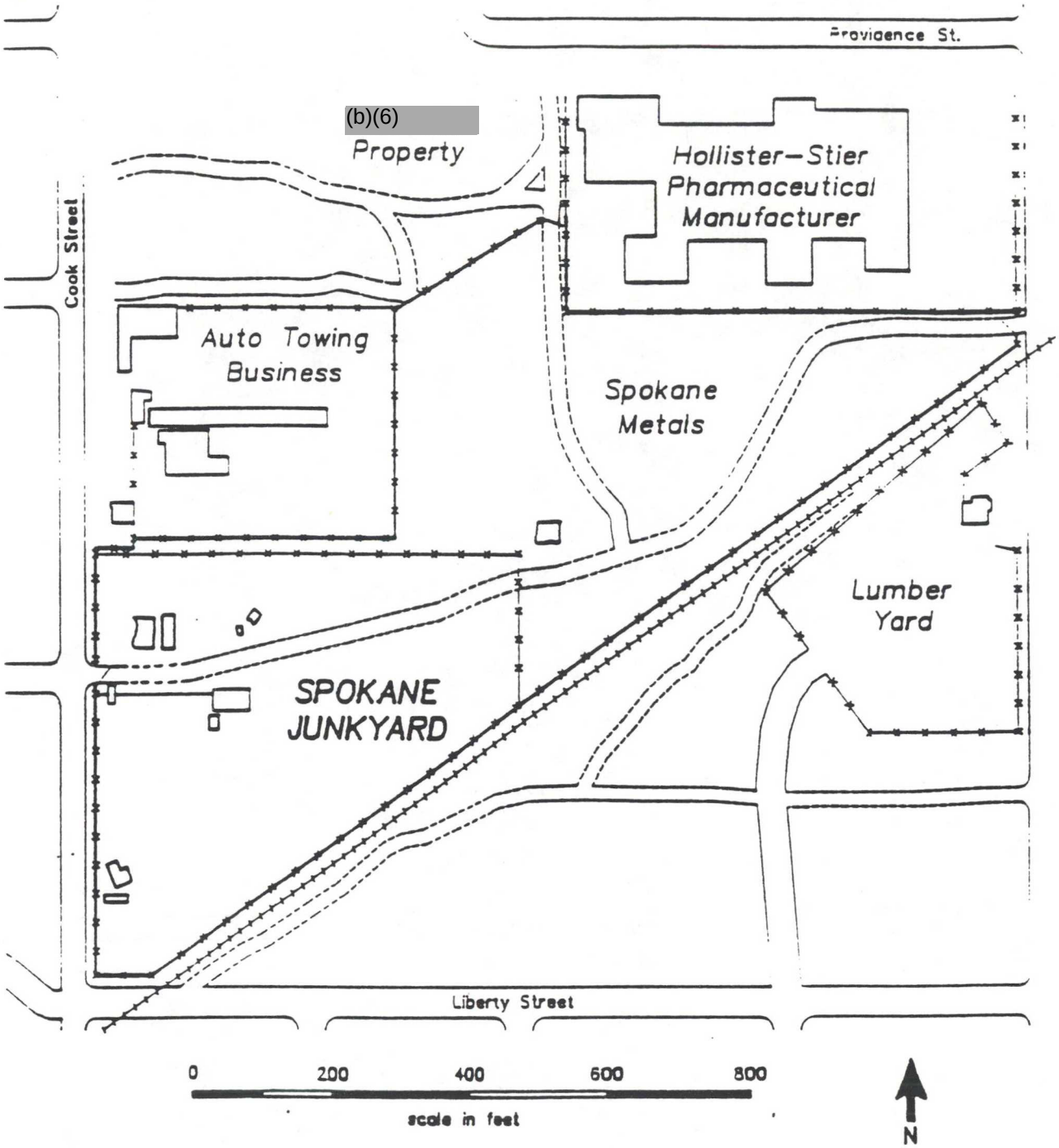
0 .25 .5 1
scale in miles

N



ecology & environment, inc.	
Job: F10-6803-01	Waste Sites WA 0526
Drawn by: B.T.	Date: June 22, 1988

FIGURE 1
LOCATION MAP
SPOKANE JUNKYARD & ASSOCIATED SITES
Spokane, WA



LEGEND

——— Spokane Junkyard propertyline

ecology & environment, inc.	
Job: F10–8803–01	Waste Site: WA 0526
Drawn by: O. P.	Date: June 21, 1988

FIGURE 2
SITE MAP AND FACILITIES LAYOUT
SPOKANE JUNKYARD & ASSOCIATED SITES
Spokane, WA

SPOKANE JUNKYARD SUPERFUND SITE

POTENTIALLY RESPONSIBLE PARTIES IDENTIFIED BY EPA

CERCLA NOTICE LETTERS SENT AUGUST 1987

Mr. Patrick Corigliano
(b)(6)
Spokane, Washington 99205

Richard Dullanty, Jr.
275 Paulsen Building
Spokane, Washington 99201

Michael J. Hemovich
Hemovich, Nappi & Oreskovich
540 Lincoln Building
Spokane, Washington 99201

Joseph Frank Nappi
Hemovich, Nappi & Oreskovich
540 Lincoln Building
Spokane, Washington 99201

Charles Halpern
Vice President and General Manager
Spokane Metals Company
Box 3865
Spokane, Washington 99220

Kaiser Aluminum & Chemical Corporation
Mead Reduction Works
Hawthorne Road
Spokane, Washington 99205

Edward Tesdahl (address unknown)
Spokane, Washington

Washington Water Power
East 1411 Mission Street
Spokane, Washington 99205

Hollister-Stier Laboratories
P.O. Box 3145
Spokane, Washington 99220-3145

CERCLA NOTICE LETTERS SENT NOVEMBER 1988

Carl Carbon, Jr.
Trustee for Carl Carbon, Inc.
(b)(6)
Spokane, Washington 99207

(b)(6)
Trustee for the Estate of (b) (6)
(b)(6)
Spokane, Washington 99203

CERCLA NOTICE LETTERS SENT NOVEMBER 1988, CONT.

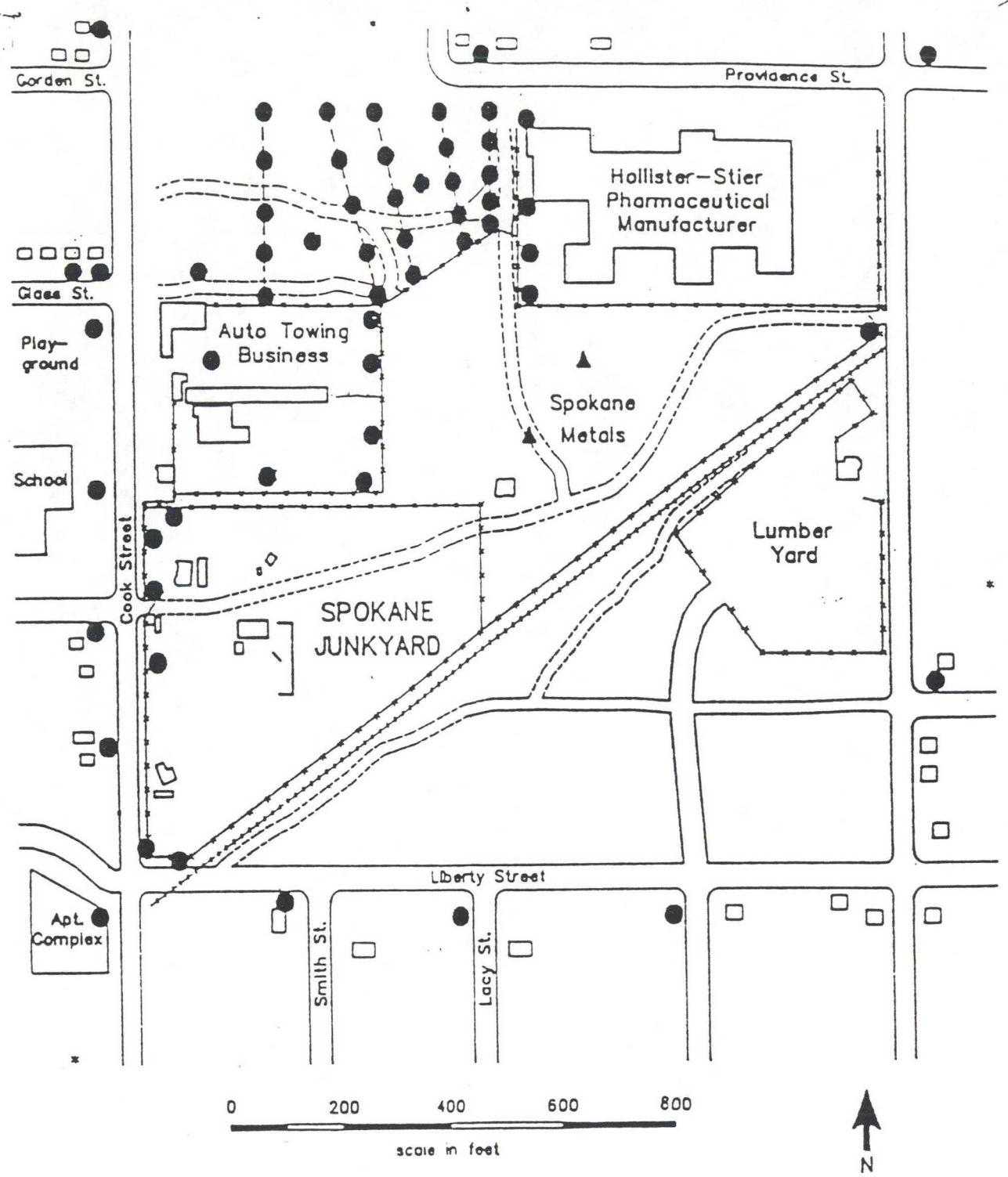
Gene M. Baker, Vice President - Operations
Gulf Resources and Chemical Corporation
Sixteenth Floor
99 High Street
Boston, Massachusetts 02110

Westinghouse Electric Corporation
Westinghouse Building
Gateway Center
Pittsburgh, Pennsylvania 15222

G. M. Boswell
Sunshine Mining Company
500 Plaza of the Americans South
Dallas, Texas 75201

Hecla Mining Company
c/o Lawrence R. Small
1200 Washington Trust Financial Center
Spokane, Washington 99204

Arnold Brauff, Registered Agent
Inland Power and Light
P.O. Box 4429
Spokane, Washington 99202



LEGEND

- ● Surface soil sample
- ▲ 10 foot soil sample
- * Background sample off field of figure

ecology & environment, inc.	
Job: F10-8712-03	Waste Site: WA0526
Drawn by: D. P.	Date: Jan. 18, 1988

SPOKANE JUNKYARD
Spokane, WA

From [illegible] 8/3/87

8/3/87

WASTE SUMMARY
(estimate)

Stoner

Waste Type	Container Count	Waste Volume (Gal)
DRUMS: (30-55 gal)		
Flammable Liquids (F.P. <100)	12 drums	320 gal
Flammable Liquids (F.P. <200)	11 drums	220 gal
NonFlammable Liquids (F.P >200, oils)	13 drums	150 gal
Neutral Liquids (pH ~3-11)	10 drums	150 gal
Acids (pH <1)	1 drum	50 gal
Bases (pH >13)	3 drums	165 gal
Oxidizer	1 drum	1 gal
Solids	110	3300 gal
(- Other Additional 7-drums -)		
CANS: (5-10 gal)		
Liquids / Pastes	85 cans	360 gal
Solids	80 cans	500 gal
SMALL CONTAINERS (2oz - 1 gal)		
LIQUID / SOLID (Paint, Tar, Grease, Oil, Solvents, Ink Insecticides, Dry & Wet Chemicals)	1000 containers	150 gal

TABLE 2

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	Background									
	BKG-1	BKG-2	BKG-2D	BKG-3	A-1	A-2	A-3	A-4	A-5	B-1
Aluminum	15,300	15,300	14,600	16,700	78,700	24,800	14,600	21,100	9,220	33,500
Antimony	4.3 U	3.5 U	4.4 U	4.1 U	4.9 UJ	7.6 UJ	7.0 UJ	6.6 UJ	8.1 UJ	4.7 UJ
Arsenic	7.3 J	7.2 J	5.9 J	3.7	16.1 J	8.7	8.0	10.9	6.4	1.4 J
Barium	119.0	124.0	143.0 J	122.0	248.0 J	433.0 J	547.0 J	424.0 J	312.0 J	920.0 J
Beryllium	0.77J	0.79J	0.61J	0.9 J	0.29J	0.31U	0.32J	0.6 J	0.33U	0.21J
Cadmium	0.59U	0.48U	0.59UJ	0.55U	4.2	3.4	7.0	4.2	2.1	8.8
Calcium	6,450	4,460	5,100	5,720	5,450	7,380	7,720	7,840	9,590	12,400
Chromium	20.0	17.8	18.1	15.9	188.0	51.6	34.2	34.2	17.8	81.2
Cobalt	7.8 J	7.2 J	8.1 J	7.7 J	8.2 J	8.2 J	9.7 J	11.0 J	5.3 J	10.4 J
Copper	18.9 J	18.9 J	23.8 J	14.5 J	1,760	546.0	689.0	199.0	105.0	5,780
Iron	20,000	17,400	17,100	19,100	35,500	40,800	36,000	26,500	14,400	54,600
Lead	58.1 J	50.4 J	60.4	17.9 J	522.0	665.0	1,740	869.0	236.0	2,210
Magnesium	7,760	6,500	6,440	6,600	3,810	4,010	4,320	5,400	2,240	6,310
Manganese	423.0	475.0	498.0	420.0	642.0	634.0	956.0	823.0	540.0	708.0
Mercury	0.16	0.09U	0.12U	0.13U	1.3	0.2	0.52	0.21U	0.21U	0.77
Nickel	12.6	10.5	13.3	10.3	37.1	32.7	36.3	25.3	16.1	48.5
Potassium	2,440	2,660	2,670	2,540	1,480	1,940	2,290	3,280	1,400 J	1,480
Selenium	0.82J	0.27UJ	1.5 UJ	0.43J	R	R	R	R	R	R
Silver	1.8 UJ	1.4 UJ	1.8 UJ	1.7 UJ	2.0 UJ	3.1 UJ	2.9 UJ	2.7 UJ	3.3 UJ	1.9 UJ
Sodium	444.0 J	512.0 J	199.0 J	334.0 J	272.0 J	374.0 J	271.0 J	302.0 J	210.0 J	345.0 J
Thallium	R	R	0.35U	R	R	R	R	R	R	R
Vanadium	29.4	24.3	24.2	26.8	18.1	25.8	26.0	33.6	15.5	22.2
Zinc	116.0 J	126.0 J	140.0	116.0 J	1,290 J	1,580 J	1,900 J	995.0 J	607.0 J	5,460 J

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

(mg/kg) = milligram/kilogram = parts per million (ppm)

U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.
R - Quality Control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

TABLE 2 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	B-2	B-3	B-4	B-5	B-5D	C-1	C-1D	C-2	C-3	C-3D	C-4
Aluminum	14,700	15,800	10,300	14,700	15,600	9,830	14,700	12,000	14,200	17,600	19,300
Antimony	7.4 UJ	6.9 UJ	10.2 J	6.4 UJ	6.4 J	25.7 J	51.7	4.5 J	6.4 UJ	6.7 J	9.6 J
Arsenic	7.9	7.4	14.4	93.9	7.2	18.2	21.8	12.6	8.0	10.7	7.9
Barium	324.0 J	341.0 J	667.0 J	269.0 J	264.0	1,860 J	2,390	246.0 J	252.0 J	268.0	375.0
Beryllium	0.3 U	0.32J	0.25J	0.49J	0.81J	0.22U	0.77J	0.75J	0.38J	0.83J	1.1 J
Cadmium	3.8	8.4	7.5	2.6	2.2	35.7	29.2	6.2	2.0	1.8	5.0
Calcium	7,380	6,470	4,230	10,200	9,990	9,880	9,720	4,730	5,720	6,360	8,610
Chromium	33.5	24.4	22.2	23.4	20.8	102.0	116.0	37.3	20.0	31.6	54.2
Cobalt	7.4 J	10.6 J	7.6 J	7.6 J	7.8 J	13.3	17.4	8.1 J	7.2	10.3 J	10.3 J
Copper	324.0	181.0	620.0	74.4	62.9 J	2,270	3,160 J	815.0	162.0	2,180 J	120.0 J
Iron	26,300	51,700	44,900	19,700	23,800	189,000	207,000	46,900	25,800	38,800	34,700
Lead	441.0	545.0	4,400	276.0	256.0 J	20,200	15,400 J	568.0	383.0	392.0 J	979.0 J
Magnesium	4,090	4,070	3,860	4,430	4,800	2,550	4,060	5,750	4,240	5,040	4,520
Manganese	659.0	803.0	561.0	713.0	698.0	1,210	1,120	528.0	604.0	678.0	922.0
Mercury	0.16U	0.72	0.2	0.17U	0.16U	9.3	24.0	0.19	0.15U	0.19U	0.21U
Nickel	23.4	32.0	33.4	21.3	16.2	175.0	137.0	31.8	25.4	27.7	34.6
Potassium	2,130	2,420	1,780	2,880	2,960	835.0 J	1,260	2,230	2,220	2,600	3,370
Selenium	R	R	R	R	0.55UJ	R	0.38UJ	R	R	R	0.63UJ 0.77UJ
Silver	3.0 UJ	2.8 U	1.7 UJ	2.6 UJ	2.4 UJ	2.2 UJ	1.8 UJ	1.7 UJ	2.6 UJ	2.1 UJ	3.4 UJ
Sodium	240.0 J	311.0 J	143.0 J	228 J	327.0 J	456.0 J	1,180	343.0 J	199.0 J	496.0 J	583.0 J
Thallium	R	R	R	R	R	R	2.1 J	R	R	R	R
Vanadium	22.0	24.2	15.1	22.3	29.2	13.9	47.1	17.1	20.0	31.8	42.2
Zinc	1,310 J	926.0 J	2,620 J	416.0 J	423.0 J	95,300 J	65,800 J	2,960 J	1,100 J	1,090 J	612.0 J

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

(mg/kg) = milligram/kilogram = parts per million (ppm)

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TABLE 2 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	B-2	B-3	B-4	B-5	B-5D	C-1	C-1D	C-2	C-3	C-3D	C-4
Aluminum	14,700	15,800	10,300	14,700	15,600	9,830	14,700	12,000	14,200	17,600	19,300
Antimony	7.4 UJ	6.9 UJ	10.2 J	6.4 UJ	6.4 J	25.7 J	51.7	4.5 J	6.4 UJ	6.7 J	9.6 J
Arsenic	7.9	7.4	14.4	93.9	7.2	18.2	21.8	12.6	8.0	10.7	7.9
Barium	324.0 J	341.0 J	667.0 J	269.0 J	264.0	1,860 J	2,390	246.0 J	252.0 J	268.0	375.0
Beryllium	0.3 U	0.32J	0.25J	0.49J	0.81J	0.22U	0.77J	0.75J	0.38J	0.83J	1.1 J
Cadmium	3.8	8.4	7.5	2.6	2.2	35.7	29.2	6.2	2.0	1.8	5.0
Calcium	7,380	6,470	4,230	10,200	9,990	9,880	9,720	4,730	5,720	6,360	8,610
Chromium	33.5	24.4	22.2	23.4	20.8	102.0	116.0	37.3	20.0	31.6	54.2
Cobalt	7.4 J	10.6 J	7.6 J	7.6 J	7.8 J	13.3	17.4	8.1 J	7.2	10.3 J	10.3 J
Copper	324.0	181.0	620.0	74.4	62.9 J	2,270	3,160 J	815.0	162.0	2,180 J	128.0 J
Iron	26,300	51,700	44,900	19,700	23,800	189,000	207,000	46,900	25,800	38,800	34,700
Lead	441.0	545.0	4,400	276.0	256.0 J	20,200	15,400 J	568.0	383.0	392.0 J	979.0 J
Magnesium	4,090	4,070	3,860	4,430	4,800	2,550	4,060	5,750	4,240	5,040	4,520
Manganese	659.0	803.0	561.0	713.0	698.0	1,210	1,120	528.0	604.0	678.0	922.0
Mercury	0.16U	0.72	0.2	0.17U	0.16U	9.3	24.0	0.19	0.15U	0.19U	0.21U
Nickel	23.4	32.0	33.4	21.3	16.2	175.0	137.0	31.8	25.4	27.7	34.6
Potassium	2,130	2,420	1,780	2,880	2,960	835.0 J	1,260	2,230	2,220	2,600	3,370
Selenium	R	R	R	R	0.55UJ	R	0.38UJ	R	R	R	0.63UJ 0.77UJ
Silver	3.0 UJ	2.8 U	1.7 UJ	2.6 UJ	2.4 UJ	2.2 UJ	1.8 UJ	1.7 UJ	2.6 UJ	2.1 UJ	3.4 UJ
Sodium	240.0 J	311.0 J	143.0 J	228 J	327.0 J	456.0 J	1,180	343.0 J	199.0 J	496.0 J	583.0 J
Thallium	R	R	R	R	R	R	2.1 J	R	R	R	R
Vanadium	22.0	24.2	15.1	22.3	29.2	13.9	47.1	17.1	20.0	31.8	42.2
Zinc	1,310 J	926.0 J	2,620 J	416.0 J	423.0 J	95,300 J	65,800 J	2,960 J	1,100 J	1,090 J	612.0 J

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

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TABLE 2 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL TRANSECT SAMPLES
(mg/kg)

Elements	C-5	D-1	D-2	D-3	D-4	D-5	E-1	E-2	E-3	E-4	E-5
Aluminum	19,800	24,200	11,500	19,700	13,000	13,100	4,310	11,400	14,800	16,800	14,100
Antimony	6.0 U	7.7 J	54.9	6.9 J	11.4 J	6.0 U	4.6 U	5.1 U	4.5 U	5.8 U	20.1 J
Arsenic	7.8	8.4	25.3	10.8	11.3 J	7.7 J	3.5 J	12.9 J	8.5 J	7.8 J	35.5 J
Barium	353.0	233.0	829.0	305.0	384.0	238.0 J	99.7 J	119.0 J	112.0 J	311.0 J	337.0 J
Beryllium	1.1 J	1.4 J	0.61J	1.2	0.79J	0.6 J	0.19U	0.57J	0.69J	0.82J	0.46J
Cadmium	2.0	1.0 U	24.9	3.5	3.3	28.7 J	0.63UJ	0.69UJ	0.61UJ	3.1 J	0.72UJ
Calcium	10,500	6,860	5,700	7,670	4,690	4,970	3,960	9,480	6,360	5,750	3,830
Chromium	31.1	49.2	103.0	45.6	32.0	25.3	16.7	34.4	17.1	29.0	41.9
Cobalt	10.2 J	12.6 J	39.0	15.0	10.6	8.4 J	3.9 J	9.6 J	9.7 J	10.7 J	13.4
Copper	52.4 J	126.0 J	1,180 J	219.0 J	110.0 J	48.9 J	150.0 J	28.5 J	16.4 J	71.6 J	169.0 J
Iron	35,100	31,500	1,723	61,300	66,600	23,800	10,800	22,000	22,500	48,100	168,000
Lead	272.0 J	202.0 J	3,730 J	516.0 J	4,200 J	923.0	836.0	224.0	26.7	435.0	12,600
Magnesium	4,690	6,060	3,790	5,780	4,950	4,690	1,890	5,380	6,550	4,720	1,560
Manganese	810.0	712.0	1,310	687.0	507.0	498.0	171.0	629.0	450.0	699.0	699.0
Mercury	0.15U	0.18U	0.8	0.23	0.22	0.16J	0.11U	0.12U	0.12U	0.18J	0.17U
Nickel	27.0	21.6	121.0	33.5	55.0	18.3	20.0	13.4	13.3	23.8	99.1
Potassium	4,210	3,670	1,840	3,130	1,870	2,480	668.0 J	1,980	3,220	2,800	1,480
Selenium	0.51UJ	0.53UJ	0.36UJ	0.78J	0.41UJ	0.51UJ	0.3 UJ	1.9 UJ	0.35UJ	4.1 J	2.6 UJ
Silver	2.4 UJ	3.1 UJ	1.2 UJ	1.8 UJ	1.8 UJ	2.4 UJ	5.1 J	2.1 UJ	1.8 UJ	2.4 UJ	2.9 J
Sodium	468.0 J	395.0 J	1,530	605.0 J	392.0 J	179.0 J	328.0 J	226.0 J	140.0 J	228.0 J	611.0 J
Thallium	R	3.5 J	R	R	R	2.8 U	1.7 U	2.2 U	1.9 U	2.6 U	3.0 U
Vanadium	37.5	42.2	18.3	33.6	72.3	29.7	47.5	39.1	32.4	29.6	98.3
Zinc	564.0 J	228.0 J	8,240 J	2,020 J	1,340 J	506.0	246.0	167.0	83.1	944.0	3,290

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

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TABLE 3

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	Highest BKG	KW-1	KW-2	AT-1	AT-2	SB1A	SB1B	SB2A	SS-1	SS-2
Aluminum	16,700	9,100	16,900	14,300	15,000	17,700	12,900	16,600	18,900	14,100
Antimony	4.4 U	4.5 U	6.6 U	5.2 U	7.0 J	4.6 U	3.7 U	3.6 U	5.2 U	4.8 U
Arsenic	7.3 J	2.7 J	7.5 J	8.4	8.5	8.1 J	11.9 J	17.9 J	7.5 J	7.2 J
Barium	143.0	209.0 J	702.0 J	114.0	161.0	142.0 J	765.0 J	151.0 J	174.0 J	122.0
Beryllium	0.9 J	0.39J	0.75J	0.7 J	0.72J	0.7 J	0.63J	0.72J	0.67J	0.42J
Cadmium	0.59U	0.93J	8.4 J	0.7 U	1.7	177.0 J	88.1 J	10.8 J	0.72UJ	0.66U
Calcium	6,450	14,800	6,410	6,970	7,670	2,550	2,240	3,560	7,880	5,740
Chromium	20.0	72.6	67.5	20.6	44.2	29.8	20.7	25.2	17.3	16.8
Cobalt	8.1 J	11.1	12.5 J	8.8 J	10.9 J	9.4	7.0 J	12.3	9.3 J	8.1 J
Copper	23.8 J	155.0 J	233.0 J	32.4 J	85.7 J	38.0 J	24.4 J	171.0 J	36.1 J	30.6 J
Iron	20,000	66,000	61,900	25,900	35,400	28,500	21,400	46,100	21,200	18,300
Lead	60.4	576.0	947.0	83.1 J	245.0 J	230.0	55.0	214.0	60.0	86.7 J
Magnesium	7,760	4,740	5,540	7,070	6,400	6,780	7,050	6,130	5,920	5,880
Manganese	498.0	528.0	723.0	460.0	617.0	670.0	440.0	670.0	528.0	401.0
Mercury	0.16	0.13U	0.17U	0.11U	0.14U	0.11U	0.08U	2.3 J	0.13U	0.13U
Nickel	13.3	32.5	55.9	18.2	27.8	18.6	17.0	22.0	13.1	12.3
Potassium	2,670	1,380	3,350	2,890	2,960	2,200	1,680	2,570	3,660	2,860
Selenium	0.82J	0.4 UJ	2.4 UJ	0.38UJ	1.6 UJ	1.5 UJ	1.4 UJ	0.64UJ	0.34UJ	R
Silver	1.8 UJ	1.8 U	2.7 UJ	2.1 UJ	2.2 UJ	1.9 UJ	1.5 UJ	1.5 UJ	2.2 UJ	2.0 UJ
Sodium	512.0 J	279 J	415.0 J	428.0 J	515.0 J	177.0 J	177.0 J	246.0 J	254.0 J	244.0 J
Thallium	0.35U	2.2 U	0.56U	R	R	0.36U	0.32U	0.37U	0.41U	0.4 U
Vanadium	29.4	28.4	46.6	26.9	32.0	24.3	17.6	23.5	27.5	25.5
Zinc	140.0	3,800	1,670	309.0 J	610.0 J	227.0	109.0	434.0	114.0	808.0 J

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of elements.

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TABLE 3 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	SS-3	SS-3D	SS-4	SW-1	SW-1D	HS-1	HS-2	HS-3	BES-1	BES-2
Aluminum	15,100	16,400	12,900	9,450	10,400	15,600	16,600	14,700	10,000	13,400
Antimony	3.9 U	3.7 U	3.9 U	4.9 U	5.2 U	3.8 U	5.7 J	4.4 U	5.1 U	4.2 U
Arsenic	7.8 J	8.5 J	5.0 J	5.4	4.8 J	5.1	7.0	8.2 J	12.5 J	9.0 J
Barium	112.0	165.0	125.0	86.7	125.0 J	151.0	127.0	94.0 J	51.5 J	89.9 J
Beryllium	0.34J	0.58J	0.34J	0.67J	0.28J	0.72J	0.84J	0.56J	0.37J	0.65J
Cadmium	0.53U	1.1	0.53U	0.67U	0.71UJ	0.52U	0.65U	0.66J	0.69UJ	0.57UJ
Calcium	2,910	4,450	3,300	11,600	9,600	5,410	3,610	3,860	8,840	10,600
Chromium	16.5	24.8	18.1	13.0	15.1	17.9	17.4	18.8	11.4	19.1
Cobalt	7.6 J	9.2	6.9 J	5.4 J	6.7 J	9.3	8.1 J	7.4 J	4.5 J	6.6 J
Copper	38.6 J	49.2 J	45.7 J	29.0 J	54.3 J	93.1 J	88.9 J	102.0 J	11.2 J	11.9 J
Iron	20,400	24,000	19,300	14,000	16,300	20,500	21,900	18,300	16,000	17,200
Lead	682.8 J	128.0 J	66.9 J	160.0 J	121.0	87.4 J	143.0 J	91.2	8.4	18.4
Magnesium	7,910	4,820	6,330	4,440	5,920	7,070	7,500	5,990	7,460	7,520
Manganese	431.0	469.0	385.0	282.0	327.0	447.0	469.0	425.0	251.0	296.0
Mercury	0.11U	0.12U	0.12U	0.12U	0.13U	0.3	0.19	0.16J	0.12U	0.12U
Nickel	12.4	17.1	13.6	6.9 J	9.4 J	14.4	13.6	12.2	8.3 J	10.0
Potassium	2,630	2,870	2,580	2,010	2,460	2,400	2,640	2,290	1,980	2,360
Selenium	R	R	R	0.89J	2.0 UJ	0.32UJ	0.33UJ	1.8 UJ	2.1 UJ	1.9 UJ
Silver	1.6 UJ	1.5 UJ	1.6 UJ	2.0 UJ	2.1 UJ	1.6 UJ	1.9 UJ	1.8 UJ	2.1 UJ	1.7 UJ
Sodium	234.0 J	330.0 J	199.0 J	462.0 J	211.0 J	273.0 J	240.0 J	194.0 J	129.0 J	156.0 J
Thallium	0.24U	0.39U	0.31J	R	0.48U	2.0 J	R	0.39U	0.5 U	0.44U
Vanadium	22.5	29.6	21.5	21.5	23.2	24.6	26.6	19.1	11.6	19.0
Zinc	99.2 J	137.0 J	110.0 J	97.2 J	123.0	177.0 J	156.0 J	237.0	53.1	62.2

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TABLE 3 (Cont.)

SUMMARY OF INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	RS-1	RS-2	RS-3	RS-4	RS-5	RS-6	RS-7	RS-8	RS-9	RS-10
Aluminum	17,400	15,700	21,800	14,100	24,000	22,000	13,100	20,900	20,600	14,600
Antimony	6.6 UJ	5.8 UJ	6.4 UJ	4.6 UJ	9.8 UJ	7.2 UJ	5.3 UJ	7.0 U	7.6 U	5.2 U
Arsenic	16.3	7.2	8.2	5.9	8.0	9.9 J	7.9	7.8	7.4	10.8
Barium	159.0 J	176.0 J	196.0 J	112.0 J	240.0 J	222.0 J	222.0 J	204.0	154.0	112.0
Beryllium	0.3 J	0.52J	0.29J	0.27J	0.76J	0.43J	0.31J	0.96J	1.0 J	0.71J
Cadmium	0.9 U	0.78U	0.87U	0.63U	1.3 U	2.6	0.72U	0.96U	1.0 U	0.71U
Calcium	5,400	5,600	7,450	5,120	10,400	8,090	8,460	11,600	6,550	4,140
Chromium	23.7	16.0	24.3	18.6	26.1	32.2	29.6	31.4	27.0	17.0
Cobalt	9.5 J	7.6 J	10.2 J	7.9 J	10.5 J	10.5 J	7.4 J	9.8 J	10.4 J	7.0 J
Copper	31.5	37.7	31.6	21.0	93.7	38.0	64.9	42.7 J	33.2 J	13.5 J
Iron	21,000	19,000	19,600	17,900	21,400	20,800	17,600	22,800	24,400	19,300
Lead	130.0	86.4	99.8	32.1	67.8	578.0	244.0	182.0 J	126.0 J	38.0 J
Magnesium	6,170	6,400	6,430	6,440	6,590	7,080	6,910	7,340	6,560	6,380
Manganese	541.0	702.0	635.0	425.0	682.0	645.0	473.0	591.0	533.0	395.0
Mercury	0.15U	0.14U	0.18U	0.14U	0.28U	0.17U	0.13U	0.24	0.13U	0.12U
Nickel	16.6	12.7	14.4	12.2	17.3 J	18.8	12.2	15.3	17.3	10.8
Potassium	2,690	3,160	3,990	3,170	3,580	3,480	2,890	4,140	3,450	2,880
Selenium	R	R	R	R	R	R	R	2.2 UJ	0.47UJ	1.6 UJ
Silver	2.7 UJ	2.4 UJ	2.6 UJ	1.9 UJ	4.0 UJ	3.0 UJ	2.2 UJ	2.9 UJ	3.1 UJ	2.1 UJ
Sodium	229.0 J	207.0 J	299.0 J	222.0 J	322.0 J	386.0 J	238.0 J	468.0 J	533.0 J	335.0 J
Thallium	R	0.43J	R	R	R	R	R	R	R	R
Vanadium	27.6	22.5	30.5	20.0	32.5	35.0	18.8	36.6	42.8	27.8
Zinc	609.0 J	175.0 J	132.0 J	762.0 J	144.0 J	602.0 J	295.0 J	249.0 J	244.0 J	196.0 J

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TABLE 4

SUMMARY OF ELEVATED INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	Highest BKG	A-1	A-2	A-3	A-4	A-5	B-1	B-2	B-3	B-4
Antimony	4.4 U	-	-	-	-	-	-	-	-	-
Arsenic	7.3 J	-	-	-	-	-	-	-	-	-
Barium	143.0	-	-	-	-	-	920.0 J	-	-	-
Cadmium	0.59U	4.2	3.4	7.0	4.2	2.1	8.8	3.8	8.4	7.5
Chromium	20.0	188.0	-	-	-	-	-	-	-	-
Copper	23.8 J	1,760	546.0	689.0	199.0	-	5,780	324.0	181.0	620.0
Iron	20,000	-	-	-	-	-	-	-	-	-
Lead	60.4	522.0	665.0	1,740	869.0	-	2,210	441.0	545.0	4,400
Mercury	0.16	1.3	-	-	-	-	-	-	-	-
Nickel	13.3	-	-	-	-	-	-	-	-	-
Selenium	0.82J	-	-	-	-	-	-	-	-	-
Thallium	0.35U	-	-	-	-	-	-	-	-	-
Zinc	140.0	1,290 J	1,580 J	1,900 J	995.0 J	-	5,460 J	1,310 J	926.0 J	2,620 J

(mg/kg) = milligram/kilogram = parts per million (ppm)

U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 4 (Cont.)

SUMMARY OF ELEVATED INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	B-5	B-5D	C-1	C-1D	C-2	C-3	C-3D	C-4	C-5	D-1
Antimony	-	-	25.7 J	51.7	-	-	-	-	-	-
Arsenic	93.9	-	-	-	-	-	-	-	-	-
Barium	-	-	1,860 J	2,390	-	-	-	-	-	-
Cadmium	2.6	2.2	35.7	29.2	6.2	2.0	1.8	5.0	2.0	-
Chromium	-	-	102.0	116.0	-	-	-	-	-	-
Copper	-	-	2,270	3,160 J	815.0	162.0	2,180 J	120.0 J	-	126.0 J
Iron	-	-	189,000	207,000	-	-	-	-	-	-
Lead	-	-	20,200	15,400	568.0	383.0	392.0 J	979.0 J	-	-
Mercury	-	-	9.3	24.0	-	-	-	-	-	-
Nickel	-	-	175.0	137.0	-	-	-	-	-	-
Selenium	-	-	-	-	-	-	-	-	-	-
Thallium	-	-	-	2.1 J	-	-	-	-	-	3.5 J
Zinc	-	-	95,300 J	65,800 J	2,960 J	1,100 J	1,090 J	-	-	-

(mg/kg) = milligram/kilogram = parts per million (ppm)

U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 4 (Cont.)

SUMMARY OF ELEVATED INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	D-2	D-3	D-4	D-5	E-1	E-4	E-5	KW-1	KW-2	SB1A
Antimony	54.9	-	-	-	-	-	20.1 J	-	-	-
Arsenic	-	-	-	-	-	-	-	-	-	-
Barium	829.0	-	-	-	-	-	-	-	-	-
Cadmium	24.9	3.5	3.3	28.7 J	-	3.1 J	-	-	8.4 J	177.0 J
Chromium	103.0	-	-	-	-	-	-	-	-	-
Copper	1,180 J	219.0 J	-	-	150.0 J	-	169.0 J	155.0 J	233.0 J	-
Iron	-	-	-	-	-	-	168,000	-	-	-
Lead	3,370 J	516.0 J	4,200 J	923.0	836.0	435.0	12,600	576.0	947.0	-
Mercury	0.8	-	-	-	-	-	-	-	-	-
Nickel	121.0	-	-	-	-	-	99.1	-	-	-
Selenium	-	-	-	-	-	4.1 J	-	-	-	-
Thallium	-	-	-	-	-	-	-	-	-	-
Zinc	8,240 J	2,020 J	1,340 J	-	-	944.0	3,290	3,800	1,670	-

(mg/kg) = milligram/kilogram = parts per million (ppm)

U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 4 (Cont.)

SUMMARY OF ELEVATED INORGANIC ELEMENTS DETECTED IN SOIL SAMPLES
(mg/kg)

Elements	SB1B	SB2A	HS-1	RS-4	RS-6	SS-2	SS-3
Antimony	-	-	-	-	-	-	-
Arsenic	-	-	-	-	-	-	-
Barium	765.0 J	-	-	-	-	-	-
Cadmium	88.1 J	10.8 J	-	-	2.6	-	-
Chromium	-	-	-	-	-	-	-
Copper	-	171.0 J	-	-	-	-	-
Iron	-	-	-	-	-	-	-
Lead	-	-	-	-	578.0	-	682.0 J
Mercury	-	2.3 J	-	-	-	-	-
Nickel	-	-	-	-	-	-	-
Selenium	-	-	-	-	-	-	-
Thallium	-	-	2.0 J	-	-	-	-
Zinc	-	-	-	762.0 J	-	808.0 J	-

(mg/kg) = milligram/kilogram = parts per million (ppm)

U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 5

SUMMARY OF INORGANIC ELEMENTS DETECTED IN DOMESTIC AND MUNICIPAL WELLS
(ug/l)

Elements	BKG Well		Nevada Well		Central Well		EPA Drinking Water Standards
Antimony	15.0	U	17.0	J	15.0	U	NSE
Arsenic	1.0	U		R		R	50*
Barium	18.0		28.0		24.0		1,000*
Cadmium	0.11		0.10	U	0.10	U	10*
Calcium	11,800		35,000		28,300		NSE
Copper	16.0	J	4.0	U	13.0	J	1,000**
Iron	91.0	J	8.0	U	8.0	U	300**
Lead	7.0		1.0	U	1.0	U	50*
Magnesium	3,360	J	12,000		13,700		NSE
Manganese	21.0		2.0	U	2.0	U	50*
Nickel	9.1	J	11.0	J	9.4	J	NSE
Potassium	489.0	U	500.0	J	548.0	J	NSE
Sodium	2,230	J	3,440	J	2,770	J	20,000***
Vanadium	3.0	U	3.0	U	3.1	J	NSE
Zinc	1,160		2.0	U	16.0	J	500**

(ug/l) = microgram per liter = parts per billion (ppb)

U - The material was analyzed for, but was not detected. The associated numerical value is an estimated sample detection limit.

J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

R - Quality Control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis are necessary for verification.

NSE - No Standard Exists.

* - National Primary Drinking Water Regulations, Maximum Contaminant Level (40 CFR, Part 141).

** - National Secondary Drinking Water Regulations (40 CFR, Part 143). These regulations are set for taste, color, odor, and other aesthetic considerations which are not health related.

*** - Guidance Level for persons with a genetic predisposition to hypertension, hypertensive patients, pregnant women, and others on sodium restrictive diets.

TABLE 6

SUMMARY OF INORGANICS ELEMENTS DETECTED IN QA/QC SAMPLES
(ug/l)

Elements	Transect Rinsate #1	Transect Rinsate #2	Residential Rinsate #1	Water Blank
Aluminum	67.1 J	90.4 J	29.0 U	21.0 U
Beryllium	0.9 U	0.9 U	0.9 J	1.0 U
Calcium	218.0 U	218.0 U	218.0 U	16.0 J
Iron	16.5 J	11.5 J	11.0 U	8.0 U
Lead	1.9 J	3.0 J	1.0 J	1.0 U
Magnesium	121.0 U	121.0 U	121.0 U	2.8 J
Nickel	8.2 J	6.0 U	6.0 U	9.0 J
Sodium	197.0 J	403.0 J	192.0 J	105.0 J
Zinc	25.7	9.5 J	24.1	2.0 U

(ug/l) = micrograms per liter = parts per billion (ppb)

U - The material was analyzed for, but was not detected. The associated numerical value is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 7

SUMMARY OF ASBESTOS FIBERS IN SOIL SAMPLES
(%)

Fiber	B-3	C-1	C-1D	KW #2	SB2A
Chrysotile	< 1%	~ 2%	~ 2%	~ 5%	~ 6%

13.2.4 Organic Soil Data

The analytical results from the EPA sampling effort in August/September 1987 indicated large areas of PCB contaminated soils on the site (Figure 14). As a result of the 1987 EPA PCB data, the EPA collected 55 soil samples to assess potential off-site migration of the contamination. All soil samples collected by the EPA were analyzed for PCBs and approximately 10% of the samples were analyzed for the full organic TCL fraction.

TABLE 8

SUMMARY OF ORGANIC COMPOUNDS DETECTED IN TRANSECT SOIL SAMPLES
(ug/kg)

Compounds	Background										
	BKG-1	BKG-2	BKG-2D	BKG-3	A-1	A-2	A-3	A-4	A-5	B-1	B-2
PCB (1260)	203.0 U	188.0 U	930.0 U	198.0 U	8,163 U	381.0 U	390.0	390.0 U	281.0 U	1,053 U	320.0
PCB (1254)	203.0 U	188.0 U	930.0 U	198.0 U	**68,000**	381.0 U	302.0 U	390.0 U	281.0 U	**7,900**	267.0 U
Acetone	NA	6.0 J	23.0	NA	NA	NA	NA	NA	NA	13.0 U	17.0 U
Chlordane	750.0	2,700	4,500	99.0 U	4,082 U	190.0 U	157.0 U	195.0 U	140.0 U	526.0 U	133.0 U
Methylene Chloride	NA	6.0 U	6.0 U	NA	NA	NA	NA	NA	NA	7.0 U	8.0 U
Fluoranthene	NA	780.0 U	25,000	NA	NA	NA	NA	NA	NA	910.0	550.0 U
Pyrene	NA	780.0 U	3,200 U	NA	NA	NA	NA	NA	NA	1,000	550.0 U
Benzo(A) Anthracene	NA	780.0 U	9,800	NA	NA	NA	NA	NA	NA	700.0	550.0 U
Chrysene	NA	780.0 U	10,000	NA	NA	NA	NA	NA	NA	1,500	550.0 U
Benzo(B) Fluoranthene	NA	780.0 U	1,300	NA	NA	NA	NA	NA	NA	910.0	550.0 U
Benzo(K) Fluoranthene	NA	780.0 U	3,200 U	NA	NA	NA	NA	NA	NA	800.0	550.0 U
Benzo(A)Pyrene	NA	780.0 U	4,400	NA	NA	NA	NA	NA	NA	620.0	550.0 U
Indeno(1,2,3 -cd)Pyrene	NA	780.0 U	2,400 J	NA	NA	NA	NA	NA	NA	340.0 J	550.0 U
Benzo(GHI) Perylene	NA	780.0 U	2,200 J	NA	NA	NA	NA	NA	NA	370.0 J	550.0 U
4,4'-DDT	20.0 U	19.0 U	93.0 U	20.0 U	816.0 U	38.0 U	30.0 U	39.0 U	28.0 U	105.0 U	27.0 U
Naphthalene	NA	780.0 U	3,600	NA	NA	NA	NA	NA	NA	430.0 U	550.0 U
Acenaphthene	NA	780.0 U	2,000 J	NA	NA	NA	NA	NA	NA	430.0 U	550.0 U
Dibenzofuran	NA	780.0 U	3,400	NA	NA	NA	NA	NA	NA	430.0 U	550.0 U
Fluorene	NA	780.0 U	3,500	NA	NA	NA	NA	NA	NA	430.0 U	550.0 U
Phenanthrene	NA	780.0 U	35,000	NA	NA	NA	NA	NA	NA	220.0 J	550.0 U
Anthracene	NA	780.0 U	7,100	NA	NA	NA	NA	NA	NA	430.0 U	550.0 U
Bis(2-ethyl hexyl) phthalate	NA	780.0 U	3,200 U	NA	NA	NA	NA	NA	NA	430.0 U	550.0 U

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of compounds.

(ug/kg) = micrograms per liter = part per billion (ppb)

NA - Not Analyzed.
U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 8 (Cont.)

SUMMARY OF ORGANIC COMPOUNDS DETECTED IN TRANSECT SOIL SAMPLES
(ug/kg)

Compounds	B-3	B-4	B-5	B-5D	C-1D	C-1	C-2	C-3	C-3D	C-4
PCB(1260)	308.0 U	195.0 U	296.0 U	314.0 U	**10,000,000**	**25,000,000**	1,026 U	262.0 U	280.0	291.0 U
PCB (1254)	308.0 U	195.0 U	296.0 U	314.0 U	2,191,781 U	2,253,521 U	1,026 U	262.0 U	271.0 U	291.0 U
Acetone	NA	NA	NA	NA	14.0 U	14.0 UJ	NA	NA	NA	NA
Chlordane	154.0 U	98.0 U	148.0 U	157.0 U	1,095,890 U	1,126,761 U	513.0 U	131.0 U	136.0 U	145.0 U
Methylene Chloride	NA	NA	NA	NA	7 U	2.0J	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Benzo(A) Anthracene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	9,000 U	9,308 U	NA	NA	NA	NA
Benzo(B) Fluoranthene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Benzo(K) Fluoranthene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Benzo(A)Pyrene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Indeno(1,2,3 -cd)Pyrene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Benzo(GHI) Perylene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
4,4'-DDT	31.0 U	20.0 U	30.0 U	31.0 U	219,178 U	225,352 U	103.0 U	26.0 U	27.0 U	29.0 U
Naphthalene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	9;000 U	9,300 U	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA
Bis(2-ethyl hexyl) phthalate	NA	NA	NA	NA	9,000 U	9,300 U	NA	NA	NA	NA

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of compounds.

(ug/kg) = micrograms per liter = part per billion (ppb)

NA - Not Analyzed.
U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 8 (Cont.)

SUMMARY OF ORGANIC COMPOUNDS DETECTED IN TRANSECT SOIL SAMPLES
(ug/kg)

Compounds	C-5	D-1	D-2	D-3	D-4	D-5	E-1	E-2	E-3	E-4	E-5
PCB (1260)	254.0 U	**2,900**	899.0 U	1,250.0 U	1,300	1,300	2,927 U	211.0 U	208.0 U	286.0 U	1,300
PCB (1254)	254.0 U	1,270 U	899.0 U	1,250.0 U	976.0 U	246.0 U	2,927 U	211.0 U	208.0 U	286.0 U	239.0 U
Acetone	NA	36.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	127.0 U	635.0 U	449.0 U	625.0 U	488.0 U	123.0 U	1,463 U	105.0 U	104.0 U	143.0 U	119.0 U
Methylene Chloride	NA	2.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(A) Anthracene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(B) Fluoranthene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(K) Fluoranthene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(A)Pyrene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3 -cd)Pyrene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(GHI) Perylene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	25.0 U	127.0 U	90.0 U	125.0 U	98.0 U	25.0 U	293.0 U	21.0 U	21.0 U	29.0 U	24.0 U
Naphthalene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethyl hexyl) phthalate	NA	520.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of compounds.

(ug/kg) = micrograms per liter = part per billion (ppb)

NA - Not Analyzed.
U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 9

SUMMARY OF ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES
(ug/kg)

Compounds	Highest BKG	KW-1	KW-2	AT-1	AT-2	SB1A	SB1B	SB2A	SS-1	SS-2
PCB (1260)	930.0 U	225.0 U	2,581 U	225.0 U	225.0 U	95.0 J	100.0 U	991.0	120.0	151.0
PCB (1254)	930.0 U	225.0 U	2,581 U	225.0 U	225.0 U	100.0 U	100.0 U	777.0	95.0 U	95.0 U
Acetone	23.0	NA	NA	NA	NA	NA	NA	NA	NA	13.0 U
Chlordane	4,500	113.0 U	1,290 U	113.0 U	113.0 U	NA	NA	NA	NA	NA
Methylene Chloride	6.0 U	NA	NA	NA	NA	NA	NA	NA	NA	6.0 U
Fluoranthene	25,000	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Pyrene	3,200 U	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Benzo(A) Anthracene	9,800	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Chrysene	10,000	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Benzo(B) Fluoranthene	1,300	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Benzo(K) Fluoranthene	3,200 U	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Benzo(A)Pyrene	4,400	NA	NA	NA	NA	NA	NA	NA	NA	270.0 J
Indeno(1,2,3 -cd)Pyrene	2,400 J	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Benzo(GHI) Perylene	2,200 J	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
4,4'-DDT	93.0 U	23.0 U	258.0 U	23.0 U	23.0 U	NA	NA	NA	NA	420.0 U
Naphthalene	3,600	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Acenaphthene	2,000 J	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Dibenzofuran	3,400	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Fluorene	3,500	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Phenanthrene	35,000	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Anthracene	7,100	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U
Bis(2-ethylhexyl) phthalate	3,200 U	NA	NA	NA	NA	NA	NA	NA	NA	420.0 U

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of compounds.

(ug/kg) = micrograms per liter = part per billion (ppb)

NA - Not Analyzed.
U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 9 (Cont.)

SUMMARY OF ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES
(ug/kg)

Compounds	SS-3	SS-4	SW-1	SW-1D	HS-1	HS-2	HS-3	BES-1	BES-2	RS-1
PCB (1260)	1,094	2,480	320.0	188 U	14,000	219.0 U	258.0 U	219.0 U	193.0 U	286.0 U
PCB (1254)	110.0 U	110.0	195.0 U	188 U	10,667 U	219.0 U	258.0 U	219.0 U	193.0 U	286.0 U
Acetone	NA	NA	12.0 U	12 U	13.0 U	NA	NA	14.0 U	NA	NA
Chlordane	NA	NA	98.0 U	94 U	5,333 U	110.0 U	129.0 U	110.0 U	96.0 U	143.0 U
Methylene Chloride	NA	NA	6.0 U	6 U	7.0 U	NA	NA	7.0 U	NA	NA
Fluoranthene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Pyrene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Benzo(A) Anthracene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Chrysene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Benzo(B) Fluoranthene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Benzo(K) Fluoranthene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Benzo(A)Pyrene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Indeno(1,2,3 -cd)Pyrene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Benzo(GHI) Perylene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
4,4'-DDT	NA	NA	20.0 U	19 U	1,067 U	22.0 U	26.0 U	22.0 U	19.0 U	29.0 U
Naphthalene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Acenaphthene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Dibenzofuran	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Fluorene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Phenanthrene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Anthracene	NA	NA	400.0 U	390 U	1,800 U	NA	NA	450.0 U	NA	590.0 U
Bis(2-ethylhexyl) phthalate	NA	NA	400.0 U	140.0 J	1,800 U	NA	NA	790.0	NA	590.0 U

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of compounds.

(ug/kg) = micrograms per liter = part per billion (ppb)

NA - Not Analyzed.
U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.

TABLE 9 (Cont.)

SUMMARY OF ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES
(ug/kg)

Compounds	RS-2	RS-3	RS-4	RS-5	RS-6	RS-7	RS-8	RS-9	RS-10
PCB (1260)	1,026 U	302.0 U	195.0 U	1,200	1,176 U	193.0 U	254.0 U	1,311 U	205.0 U
PCB (1254)	1,026 U	302.0 U	195.0 U	471.0 U	1,176 U	193.0 U	254.0 U	1,311 U	205.0 U
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	8,900	151.0 U	660.0	1,100	588.0 U	96.0 U	127.0 U	2,500	103.0 U
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Benzo(A) Anthracene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Benzo(B) Fluoranthene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Benzo(K) Fluoranthene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Benzo(A)Pyrene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Indeno(1,2,3 -cd)Pyrene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Benzo(GHI) Perylene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
4,4'-DDT	103.0 U	180.0	20.0 U	47.0 U	118.0 U	19.0 U	25.0 U	131.0 U	21.0 U
Naphthalene	NA	NA	NA	1,200	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA
Bis(2-ethylhexyl) phthalate	NA	NA	NA	970.0 U	NA	NA	NA	NA	NA

Note: Bold print indicates elevated levels (i.e., 5 times highest background level or 3 times background detection limit) of compounds.

(ug/kg) = micrograms per liter = part per billion (ppb)

NA - Not Analyzed.
U - The material was analyzed for, but was not detected. The associated numerical values is an estimated sample detection limit.
J - The associated numerical value is an estimated quantity because quality control criteria were not met or concentrations reported were less than the CRDL.