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Y-12 Environmental Restoration Program DMC

Y-12

OAK RIDGE Y-12 PLANT

MARTIN MARIETTA

APPENDICES:
PRELIMINARY ASSESSMENT
OF EXISTING CONTAMINATION
IN BEAR CREEK VALLEY WATERSHED AREA
AND
POTENTIAL REMEDIAL ACTIONS
FOR MITIGATING ITS IMPACT
ON BEAR CREEK

June 1984

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Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
Under Contract No. DE-AC05-84OR21400

Y-12
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June 15, 1984 Y/TS-51/2

APPENDICES:
PRELIMINARY ASSESSMENT OF EXISTING CONTAMINATION IN BEAR CREEK VALLEY WATERSHED AREA AND POTENTIAL REMEDIAL ACTIONS FOR MITIGATING ITS IMPACT ON BEAR CREEK

Health, Safety, Environment, and Accountability Division

Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
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APPENDICES

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APPENDIX A

AN ASSESSMENT OF THE HAZARDS FROM MIXING INCOMPATIBLE WASTES IN THE BEAR CREEK WASTE DISPOSAL AREA

(Prepared by H&R Technical Associates, Inc.)

2.0 METHODOLOGY

The entries in a general listing of both specific and non-specific (e.g., debris) items deposited in the BCWDA Burial Grounds were surveyed and assigned, if possible, to one or more of forty-one categories. The consequences of reacting materials in these categories was then determined in order to provide a preliminary identification of the hazards resulting from mixing these incompatible wastes.

2.1 Waste Inventory

The Y-12 Maintenance Division has kept records of disposals in the Bear Creek Valley Disposal Area and elsewhere. Six different types of information were maintained by the Y-12 Maintenance Division and were collected together to comprise the Y-12 waste inventory. The types of information collected are blanket requests for disposal, tanker logs, truck logs, requests for hazardous and other type material disposal, and Maintenance Division monthly activity reports.

To the extent that it could be determined from the historical records, information was compiled on the type, quantity, disposal date, and disposal location. However, a number of uncertainties have been identified regarding this information. In many cases, identification of the specific chemical substances is precluded because only general categories (e.g., oil, mixed chips), trade names (e.g., Amberlite), or acronyms were recorded in the disposal logs. Also, other substances adhering to the deposited material, such as machine coolants adhering to metal chips, were generally not identified. Thus, there may be substances in the Burial Grounds which are not reflected in the inventory. The uncertainity regarding the quantity of material involves primarily the fact that it is not known whether a specific entry reflected only the weight of the material being disposed or also included the container weight, and/or the weight of other substances (e.g., coolants adhering to metal chips). Particularly for the earlier information, specific disposal locations are not recorded so that, for example, the inventory may reflect that a particular item was deposited in Burial Ground A but no further indication as to where in Burial Ground A would have been provided.

For the purposes of this study, the inventories for six specific areas were examined. These areas are Burial Grounds A, A North, B,C, and D and the Walk-In Pits. The locations of these areas are shown on Figure 2-1. The

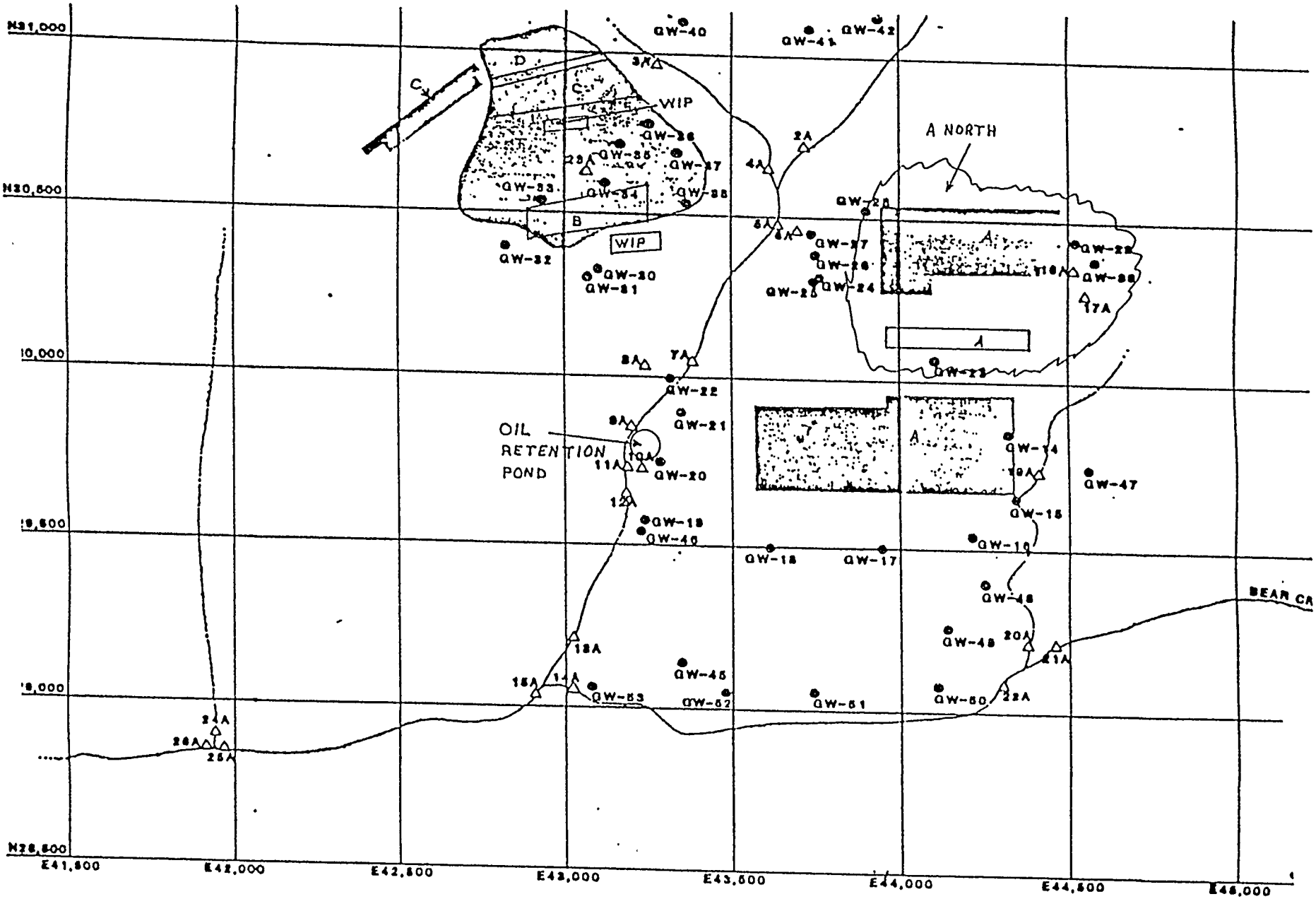

FIG. 2-1 BURIAL GROUND LOCATIONS

LOCATIONS ARE APPROXIMATE

information regarding Burial Ground A North was generated by examining the waste inventories for trenches A8 through A15 only. Data showing the disposal location as Burial Ground A were not considered. The earliest trench specific data available for these trenches is 1969 data, yet other information suggests that some of the trenches were opened as early as 1966. Therefore, the information provided below on Burial Ground A North only is incomplete.

2.2 Waste Classification

The forty-one categories defined in a 1981 report for the Environmental Protection Agency (Hatayama, 1980) were used as the basis for the classification of the wastes. These classification categories are more detailed than Appendix V of 40CFR264; however, Hatayama's categories are consistent with 40CFR264 in terms of potential reaction consequences. Hatayama provided specific examples of materials in each of the forty-one categories or Reactivity Group Numbers. These categories (RGNs) are defined in Table 2-1. It should be noted that Hatayama's categories do not consider radioisotopes. However, to provide a more complete identification of possible hazards, the areas containing radioisotopes have also been identified. The reader is referred to Hatayama's report for a listing of specific materials within each RGN.

Tables 2-2 through 7 summarize the materials by RGN in Burial Grounds A, A North, B, C, and D, and the Walk-In Pits.

2.3 Consequence Classification

Hatayama has identified eight types of consequences resulting from the mixing of incompatible wastes from a set of two categories. Reactions between combination of two types (i.e., binary combinations) were assessed. Reactions of three or more types and reactions subsequent to the initial binary reaction were not considered. These consequences are defined in Table 2-8. Hatayama's listing has been modified to include radiation hazards.

2.4 Hazard Identification

Once the wastes for a specific burial site have been categorized by RGN, the consequences can be assessed by identifying the incompatible combinations of RGNs. Tables 2-9 through 2-14 summarize the hazards which might result if wastes in the various reactivity groups are mixed. The information con-

TABLE 2-1
DEFINITION OF WASTE CATEGORIES

Reactivity Group Number	Group Names
1	Acids, Mineral, Non-oxidizing
2	Acids, Mineral, Oxidizing
3	Acids, Organic
4	Alcohols and Glycols
5	Aldehydes
6	Amides
7	Amines, Aliphatic and Aromatic
8	Azo Compounds, Diazo Compounds, and Hydrazines
9	Carbamates
10	Caustics
11	Cyanides
12	Dithiocarbamates
13	Esters
14	Ethers
15	Fluorides, Inorganic
16	Hydrocarbons, Aromatic
17	Halogenated Organics
18	Isocyanates
19	Ketones
20	Mercaptans and other Organic Sulfides
21	Metals, Alkali and Alkaline Earth, Elemental and Alloys
22	Metals, Other Elemental and Alloys in the Form of Powders, Vapors or Sponges
23	Metals, Other Elemental and Alloys, as Sheets, Rods, Moldings, Drops, etc.
24	Metals and Metal Compounds, Toxic
25	Nitrides
26	Nitriles
27	Nitro Compounds
28	Hydrocarbon, Aliphatic, Unsaturated
29	Hydrocarbon, Aliphatic, Saturated
30	Peroxides and Hydroperoxides, Organic
31	Phenols and Creosols
32	Organophosphates, Phosphothioates and Phosphodithioates
33	Sulfides, Inorganic
34	Epoxides
101	Combustible and Flammable Materials, Miscellaneous
102	Explosives
103	Polymerizable Compounds
104	Oxidizing Agents, Strong
105	Reducing Agents, Strong
106	Water and Mixtures Containing Water
107	Water Reactive Substances

TABLE 2-2
RGN CLASSIFICATION OF BURIAL GROUND A MATERIALS

RGN	GROUP NAME
Group 1	Acids, Mineral, Non-oxidizing
Group 2	Acid, Mineral, Oxidizing
Group 3	Acids, Organic
Group 4	Alcohols and Glycols
Group 5	Aldehydes
Group 6	Amides
Group 7	Amines, Aliphatic and Aromatic
Group 8	Azo Compounds, Diazo Compounds and Hydrazines
Group 10	Caustics
Group 11	Cyanides
Group 13	Esters
Group 14	Ethers
Group 15	Fluorides, Inorganic
Group 16	Hydrocarbons, Aromatic
Group 17	Halogenated Organics
Group 19	Ketones
Group 20	Mercaptans and Other Organic Sulfides
Group 21	Metals, Alkali and Alkaline Earth, Elemental and Alloys
Group 22	Metals, Other Elemental and Alloys in the Form of Powder, Sponges or Vapors
Group 23	Metals, Other Elemental and Alloy as Sheets, Rods, Moldings, Drops, etc.
Group 24	Metals and Metal Compounds, Toxic
Group 25	Nitrides
Group 26	Nitriles
Group 27	Nitro Compounds
Group 28	Hydrocarbon, Aliphatic Unsaturated
Group 29	Hydrocarbon, Aliphatic Saturated
Group 30	Peroxides and Hydroperoxides, Organic
Group 31	Phenols and Creosols
Group 33	Sulfides, Inorganic
Group 34	Epoxides
Group 101	Combustible and Flammable Material, Miscellaneous
Group 102	Explosives
Group 103	Polymerizable Compounds
Group 104	Oxidizing Agents, Strong
Group 105	Reducing Agents, Strong
Group 106	Water and Mixtures Containing Water
Group 107	Water Reactive Substances
	Radioisotopes

TABLE 2-3

RGN CLASSIFICATION OF BURIAL GROUND A NORTH MATERIALS

RGN	Group Name
Group 1	Acids, Mineral, Non-Oxidizing
Group 2	Acids, Mineral, Oxidizing
Group 3	Acids, Organic
Group 4	Alcohols and Glycols
Group 7	Amines, Aliphatic and Aromatic
Group 8	Azo Compounds, Diazo Compounds, and Hydrozine
Group 10	Caustics
Group 11	Cyanides
Group 14	Ethers
Group 15	Fluorides, Inorganics
Group 16	Hydrocarbons, Aromatic
Group 17	Halogenated Organics
Group 19	Ketones
Group 22	Metals, Other Elemental and Alloys in the Form of Powder, Sponges or Vapor
Group 23	Metals, Other Elemental and Alloys as Sheets, Rods, Moldings, Drops, etc.
Group 24	Metals and Metal Compounds, Toxic
Group 27	Nitro Compounds
Group 28	Hydrocarbons, Aliphatic, Unsaturated
Group 34	Epoxides
Group 101	Combustible and Flammable Material, Miscellaneous
Group 102	Explosives
Group 104	Oxidizing Agents, Strong
Group 107	Water Reactive Substances

TABLE 2-4

RGN CLASSIFICATION OF BURIAL GROUND B MATERIALS

RGN	Group Name
Group 10	Caustics
Group 17	Halogenated Organics
Group 22	Metals, Other Elemental and Alloys in the Form of Powder, Sponges or Vapor
Group 23	Metals, Other Elemental and Alloys as Sheets, Rods, Moldings, Drops, etc.
Group 24	Metals and Metal Compounds, Toxic
Group 101	Combustible and Flammable Material, Miscellaneous
Group 104	Oxidizing Agents, Strong
	Radioisotopes

TABLE 2-5

RGN CLASSIFICATION OF BURIAL GROUND C MATERIALS

RGN	Group Names
Group 1	Acids, Mineral Non-oxidizing
Group 2	Acids, Mineral Oxidizing
Group 3	Acids, Organic
Group 4	Alcohols and Glycols
Group 5	Aldehydes
Group 6	Amides
Group 7	Amines, Aliphatic and Aromatic
Group 8	Azo Compounds, Diazo Compounds, and Hydrozines
Group 10	Caustics
Group 11	Cyanides
Group 12	Dithiocarbamates
Group 13	Esters
Group 14	Ethers
Group 15	Fluorides, Inorganic
Group 16	Hydrocarbons, Aromatic
Group 17	Halogenated Organics
Group 19	Ketones
Group 20	Mercaptans and Other Organic Sulfides
Group 21	Metals, Alkali and Alkaline Earth, Elemental and Alloys
Group 22	Metals, Other Elemental and Alloys in the Form of Powders, Vapors or Sponges
Group 23	Metals, Other Elemental and Alloys as Sheets, Rods, Moldings, Drops, etc.
Group 24	Metals and Metal Compounds, Toxic
Group 26	Nitrites
Group 27	Nitro Compounds
Group 28	Hydrocarbon, Aliphatic, Unsaturated
Group 29	Hydrocarbon, Aliphatic, Saturated
Group 30	Peroxides and hydroperoxides, Organic
Group 31	Phenols and Creosols
Group 33	Sulfides, Inorganic
Group 34	Epoxides
Group 101	Combustible and Flammable Materials, Miscellaneous
Group 102	Explosives
Group 103	Polymerizable Compounds
Group 104	Oxidizing Agents, Strong
Group 105	Reducing Agents, Strong
Group 106	Water and Mixtures Containing Water
Group 107	Water Reactive Substances
	Radioisotopes - Sub and Tran

TABLE 2-6

RGN CLASSIFICATION OF BURIAL GROUND D MATERIALS

RGN	Group Name
Group 7	Amines, Aliphatic and Aromatic
Group 14	Ethers
Group 17	Halogenated Organics
Group 19	Ketones
Group 22	Metals, Other Elemental and Alloys in the Form of Powders, Vapors or Sponges
Group 23	Metals, Other Elemental and Alloys as Sheets, Rods, Moldings, Drops, etc.
Group 24	Metals and Metal Compounds, Toxic
Group 101	Combustible and Flammable Materials, Miscellaneous

TABLE 2-7

RGN CLASSIFICATION OF WALK-IN PIT MATERIALS

RGN	Group Name
Group 1	Acids, Mineral, Non-Oxidizing
Group 2	Acids, Mineral, Oxidizing
Group 3	Acids, Organic
Group 4	Alcohols and Glycols
Group 5	Aldehydes
Group 6	Amides
Group 7	Amines, Aliphatic and Aromatic
Group 8	Azo Compounds, Diazo Compounds, and Hydrazines
Group 10	Caustics
Group 11	Cyanides
Group 12	Dithiocarbamates
Group 13	Esters
Group 14	Ethers
Group 15	Fluorides, Inorganic
Group 16	Hydrocarbons, Aromatic
Group 17	Halogenated Organics
Group 19	Ketones
Group 20	Mercaptans and Other Organic Sulfides
Group 21	Metal, Alkali and Alkaline Earth, Elemental and Alloys
Group 22	Metals, Other Elemental and Alloys in the Form of Powders, Vapors or Sponges
Group 23	Metals, Other Elemental and Alloys as Sheets, Rods, Moldings, Drops, Etc.
Group 24	Metals and Metal Compounds, Toxic
Group 25	Nitrides
Group 26	Nitriles
Group 27	Nitro Compounds
Group 28	Hydrocarbon, Aliphatic, Unsaturated
Group 29	Hydrocarbon, Aliphatic, Saturated
Group 30	Peroxides and Hydroperoxides, Organic
Group 31	Phenols and Creosols
Group 33	Sulfides, Inorganic
Group 34	Epoxides
Group 101	Combustible and Flammable Materials, Miscellaneous
Group 102	Explosive
Group 103	Polymerizable Compounds
Group 104	Oxidizing Agents, Strong
Group 105	Reducing Agents, Strong
Group 107	Water Reactive Substances
	Radioisotopes

TABLE 2-8

REACTION CONSEQUENCES

Reaction Codes	Consequence
H	Generates heat by chemical reaction
F	Produce fire from extremely exothermic reactions, ignition of reaction mixtures or of the reaction products.
G	Generates innocuous gases such as N_2, CO_2, etc. but can cause pressurization and rupture of closed containers.
GT	Generates toxic gases such as HCN, H_2S, etc.
GF	Generates flammable gases such as H_2, C_2H_2, etc.
E	Produces explosion due to extremely vigorous reactions or reactions producing enough heat to detonate unstable reactants, or reaction products.
P	Produces violent polymerization resulting in the generation of extreme heat and sometimes toxic and flammable gases.
S	Solubilizes toxic substances including metals.
R	Radiation Hazard

TABLE 2-9

BURIAL GROUND A HAZARDS

Reaction Code	Reacting Groups
H	1+4, 1+6, 1+7, 1+10, 1+13, 1+14, 1+19, 1+28, 1+31, 1+106, 2+10, 2+106, 3+7, 3+10, 3+26, 5+7, 5+8, 5+10, 5+27, 5+28, 5+33, 10+13, 10+19, 11+17, 11+19, 17+20, 19+20, 30+31, 34+105
GT	1+15, 2+15, 3+15, 3+33
S	1+24, 2+24, 3+24, 6+24, 7+24, 10+24, 24+106
GF	3+21
U	5+34, 8+25, 10+25, 10+26
G	8+11, 8+106
E	8+33, 19+30, 21+25, 24+102, 25+102
H,P	1+5, 1+34, 1+103, 2+34, 2+103, 3+4, 3+5, 3+34, 3+103, 4+34, 7+101, 8+34, 8+103, 10+34, 10+103, 11+34, 11+103, 20+34, 21+26, 21+34, 21+103, 22+34, 22+103, 23+103, 24+34, 24+103, 25+34, 25+103, 28+30, 30+34, 30+103, 31+34, 31+103, 33+34, 33+103
H,G	1+8, 1+30, 1+101, 2+3, 3+8, 4+8, 5+30, 8+12, 8+13, 8+17, 8+18, 8+19, 8+20, 8+31, 8+105, 24+30, 30+104
GT,GF	1+11, 1+20, 1+33, 2+11, 3+11, 33+106, 105+106
H,GT	1+17, 1+32, 1+104, 2+6, 2+7, 2+8, 3+104, 7+17, 7+30, 30+33
H,E	1+102, 2+30, 2+102, 3+102, 8+102, 8+104, 10+27, 10+102, 13+102, 17+21, 17+22, 17+30, 21+30, 21+102, 22+28, 22+102, 23+102, 27+104, 27+105, 30+102, 30+105, 31+102, 33+102, 34+102, 101+102, 102+103, 102+104, 102+105
H,GF	1+105, 3+25, 3+105, 5+25, 6+21, 6+105, 7+21, 7+105, 8+21, 10+17, 10+21, 10+22, 11+21, 11+26, 13+21, 13+25, 17+25, 19+21, 19+25, 19+105, 20+21, 20+25, 20+105, 21+31, 21+106, 22+106, 24+106, 25+26, 25+31, 25+106, 26+105, 31+105, 101+105
H,F	2+4, 2+5, 2+13, 2+14, 2+16, 2+19, 2+28, 2+29, 2+31, 4+30, 4+104, 5+104, 13+104, 13+105, 14+104, 16+104, 17+23, 17+103, 19+104, 23+104, 28+104, 29+104, 31+104
P,G	22+30

TABLE 2-9 (cont.)

BURIAL GROUND A HAZARDS

Reaction Code	Reacting Groups
H,F,GF	1+21, 1+22, 1+23, 1+25, 2+21, 2+22, 2+23, 3+20, 4+21, 4+105, 5+21, 5+105, 20+22, 25+101
H,GT,GF	1+26
H,F,GT	2+17, 2+20, 2+26, 2+27, 2+33, 2+101, 2+105, 6+104, 7+104, 8+22, 20+30, 20+104, 26+104, 30+101, 33+104, 103+104
H,F,E	2+25, 8+30, 21+104, 22+104, 24+104, 25+104, 104+105
H,E,GF	4+25, 21+27, 25+27, 25+30
H,F,G	8+23, 21+101, 34+104
H,E,GT	11+30, 11+104
H,P,GT	26+30
H,T,G	101+104
R	

Note: Group 107 is extremely reactive when mixed with any other RGN materials.

TABLE 2-10

BURIAL GROUND A NORTH HAZARDS

Reaction Code	Reacting Groups
H	1+4, 1+7, 1+10, 1+14, 1+15, 1+19, 1+28, 2+11, 3+7, 3+10, 10+19, 11+17, 11+19
GT	1+16, 2+15, 3+15, 3+34
S	1+24, 2+24, 3+24, 7+24, 10+24
GF	3+22
G	8+11
E	24+102
H,G	1+8, 1+101, 2+3, 3+8, 4+8, 8+17, 8+19
GT,GF	1+11, 3+11
H,GT	1+17, 1+104, 2+7, 2+8, 2+10, 3+104, 7+16, 17+104
H,P	1+34, 2+34, 3+4, 4+34, 7+17, 7+34, 8+34, 10+34, 11+34, 22+34, 24+34
H,E	1+102, 3+102, 8+102, 8+104, 10+27, 10+102, 17+22, 22+28, 22+102, 23+102, 27+104, 34+102, 101+102, 102+104
H,F	2+4, 2+14, 2+16, 2+19, 4+104, 14+104, 16+104, 17+23, 19+104, 23+104, 28+104
H,GF	10+17, 10+22
H,F,GF	1+22, 1+23, 2+22, 2+23
H,F,GT	2+17, 2+28, 2+101, 7+104, 8+22
H,F,G	8+23, 34+104, 101+104
H,E,GT	11+104
H,F,E	22+104

Note: Group 107 is extremely reactive when mixed with any other RGN materials.

TABLE 2-11

BURIAL GROUND B HAZARDS

Reaction Code	Reacting Groups
S	10+24
H,E	17+22, 22+101
H,F	17+23
H,GF	10+17, 10+22
H,F,G	101+104
R	

TABLE 2-12

BURIAL GROUND C HAZARDS

Reaction Code	Reacting Groups
H	1+4, 1+6, 1+7, 1+10, 1+13, 1+14, 1+19, 1+28, 1+31, 1+106, 2+10, 2+106, 3+7, 3+10, 3+26, 5+7, 5+8, 5+10, 5+27, 5+28, 5+33, 10+13, 10+19, 11+17, 11+19, 17+20, 19+20, 30+31, 34+105
GT	1+15, 2+15, 3+15, 3+33
S	1+24, 2+24, 3+24, 6+24, 7+24, 10+24, 24+106
GF	3+21
U	5+34, 10+26, 12+34, 12+103
G	8+11, 8+106
E	8+33, 19+30, 24+102
H,P	1+5, 1+34, 1+103, 2+34, 2+103, 3+4, 3+5, 3+34, 3+103, 4+34, 7+101, 8+34, 8+103, 10+34, 10+103, 11+34, 11+103, 20+34, 21+26, 21+34, 21+103, 22+34, 22+103, 23+103, 24+34, 24+103, 28+30, 30+34, 30+103, 31+34, 31+103, 33+34, 33+103
H,G	1+8, 1+30, 1+101, 2+3, 3+8, 4+8, 5+30, 8+12, 8+13, 8+17, 8+18, 8+19, 8+20, 8+31, 8+105, 24+30, 30+104
GT,GF	1+11, 1+20, 1+33, 2+11, 3+11, 5+12, 33+106, 105+106
H,GT	1+17, 1+32, 1+104, 2+6, 2+7, 2+8, 3+104, 7+17, 7+30, 12+105, 30+33
H,E	1+102, 2+30, 2+102, 3+102, 8+102, 8+104, 10+27, 10+102, 13+102, 17+21, 17+22, 17+30, 21+30, 21+102, 22+28, 22+102, 23+102, 27+104, 27+105, 30+102, 30+105, 31+102, 33+102, 34+102, 101+102, 102+103, 102+104, 102+105
H,GF	1+105, 3+105, 6+21, 6+105, 7+21, 7+105, 8+21, 10+17, 10+21, 10+22, 11+21, 11+26, 13+21, 19+21, 19+105, 20+21, 20+105, 21+31, 21+106, 22+106, 24+106, 26+105, 31+105, 101+105
H,F	2+4, 2+5, 2+16, 2+19, 2+28, 2+29, 2+31, 4+30, 4+104, 5+104, 13+104, 13+105, 14+104, 16+104, 17+23, 17+103, 19+104, 23+104, 28+104, 29+104, 31+104

TABLE 2-12 (cont.)

BURIAL GROUND C HAZARDS

Reaction Code	Reacting Groups
P,G	22+30
H,F,GF	1+12, 1+21, 1+22, 1+23, 2+12, 2+21, 2+22, 2+23, 3+20, 4+21, 4+105, 5+21, 5+105, 20+22
H,GT,GF	1+26, 3+12, 12+21
H,F,GT	2+17, 2+20, 2+26, 2+27, 2+33, 2+101, 2+105, 6+104, 7+104, 8+22, 12+30, 12+104, 20+30, 20+104, 26+104, 30+101, 33+104, 103+104
H,F,E	8+30, 21+104, 22+104, 24+104, 104+105
H,E,GF	21+27
H,F,G	8+23, 21+101, 34+104
H,E,GT	11+30, 11+104
H,P,GT	26+30
H,T,G	101+104
R	

Note: Group 107 is extremely reactive when mixed with any other RGN materials.

TABLE 2-13

BURIAL GROUND D HAZARDS

Reaction Code	Reacting Groups
S	7+24
H,GT	7+17
H,F	17+23
H,E	17+22

TABLE 2-14

WALK-IN PIT HAZARDS

Reaction Code	Reacting Groups
H	1+4, 1+6, 1+7, 1+10, 1+13, 1+14, 1+19, 1+28, 1+31, 2+10, 3+7, 3+10, 3+26, 5+7, 5+8, 5+10, 5+27, 5+28, 5+33, 10+13, 10+19, 11+17, 11+19, 17+20, 19+20, 30+31, 34+105
GT	1+15, 2+15, 3+15, 3+33
S	1+24, 2+24, 3+24, 6+24, 7+24, 10+24
GF	3+21
U	5+34, 8+25, 10+25, 10+26, 12+34, 12+103
G	8+11
E	8+33, 19+30, 21+25, 24+102, 25+102
H,P	1+5, 1+34, 1+103, 2+34, 2+103, 3+4, 3+5, 3+34, 3+103, 4+34, 7+101, 8+34, 8+103, 10+34, 10+103, 11+34, 11+103, 20+34, 21+26, 21+34, 21+103, 22+34, 22+103, 23+103, 24+34, 24+103, 25+34, 25+103, 28+30, 30+34, 30+103, 31+34, 31+103, 33+34, 33+103
H,G	1+8, 1+30, 1+101, 2+3, 3+8, 4+8, 5+30, 8+12, 8+13, 8+17, 8+18, 8+19, 8+20, 8+31, 8+105, 24+30, 30+104
GT,GF	1+11, 1+20, 1+33, 2+11, 3+11, 5+12
H,GT	1+17, 1+32, 1+104, 2+6, 2+7, 2+8, 3+104, 7+17, 7+30, 12+105, 30+33
H,E	1+102, 2+30, 2+102, 3+102, 8+102, 8+104, 10+27, 10+102, 13+102, 17+21, 17+22, 17+30, 21+30, 21+102, 22+28, 22+102, 23+102, 27+104, 27+105, 30+102, 30+105, 31+102, 33+102, 34+102, 101+102, 102+103, 102+104, 102+105
H,GF	1+105, 3+25, 3+105, 5+25, 6+21, 6+105, 7+21, 7+105, 8+21, 10+17, 10+21, 10+22, 11+21, 11+26, 13+21, 13+25, 17+25, 19+21, 19+25, 19+105, 20+21, 20+25, 20+105, 21+31, 25+26, 25+31, 26+105, 31+105, 101+105
H,F	2+4, 2+5, 2+13, 2+14, 2+16, 2+19, 2+28, 2+29, 2+31, 4+30, 4+104, 5+104, 13+104, 13+105, 14+104, 16+104, 17+23, 17+103, 14+104, 23+104, 28+104, 29+104, 31+104
P,G	22+30

TABLE 2-14 (cont.)

WALK-IN PIT HAZARDS

Reaction Code	Reacting Groups
H,F,GF	1+12, 1+21, 1+22, 1+23, 1+25, 2+12, 2+21, 2+22, 2+23, 3+20, 4+21, 4+105, 5+21, 5+105, 20+22, 25+101
H,GF,GT	1+26, 3+12, 12+21
H,F,GT	2+17, 2+20, 2+26, 2+27, 2+33, 2+101, 2+105, 6+104, 7+104, 8+22, 12+30, 12+104, 20+30, 20+104, 26+104, 30+101, 33+104, 103+104
H,F,E	2+25, 8+30, 21+104, 22+104, 24+104, 25+104, 104+105
H,E,GF	4+25, 21+27, 25+27, 25+30
H,F,G	8+23, 21+101, 34+104
H,E,GT	11+30, 11+104
H,P,GT	26+30
H,T,G	101+104
R	

Note: Group 107 is extremely reactive when mixed with any other RGN materials.

tained on these Tables should be considered preliminary since it is not known that wastes in one reactivity group were colocated with wastes in an incompatible reactivity group. However, the listings do provide a good identification of the hazards that might arise should the wastes now located in the BCWDA be mixed in the future as is likely during generalized excavation of the area.

From inspection of Table 2-9, it can be concluded that essentially all types of hazards could exist in Burial Ground A. To the extent that the items identified as being specifically placed in Burial Ground A North represent the totality of all material types in that area, Table 2-10 summaries the potential hazards produced by reaction of incompatible waste groups in this area. Once again, essentially all types of hazards are possible in this area.

The hazards posed by incompatible reactions in Burial Ground B, as gauged by the number of hazardous binary combinations, is less than that for the A burial grounds. It would appear that there is less likelihood of violent polymerization or toxic gas generation in this area.

By inspection of Tables 2-12 and 2-14, it can be concluded that essentially the same hazards are present in Burial Ground C and the Walk-In Pits as in Burial Ground A. However, since this preliminary study made no attempt to distinguish between the three Walk-In Pits, it is not certain that the same hazards exist in all three Walk-In Pits or, if they do, that they exist to the same degree in the Walk-In Pit areas North and South of Burial Ground B. It is believed that attempts were made to segregate the wastes particularly with regard to segregating acids from bases and organics from inorganics; however, the waste inventory does not contain data in sufficient detail to permit a definite conclusion regarding this matter.

The potential hazards rising in Burial Ground D are summarized on Table 2-13. Provided that the inventory accurately reflects the materials placed in Burial Ground D, the primary consequences are heat, explosions and fire. In examining the waste inventory, it was noted that Burial Ground D contains primarily machine turnings. Since machine turnings are usually coated with an organic coolant, such as perchloroethylene, or water-based coolants containing polyethylene glycol and sodium hypo-chlorite, other hazards such as pressure and gas generation, and solubilization of metals may also occur.

3.0 CONCLUSIONS

From the foregoing discussion, it is clear that incompatible wastes have been mixed together in all portions of the BCWDA, and that adverse chemical reactions have most likely occurred and may yet be occurring. That adverse reactions continue to occur is supported by recent field sampling activities in which toxic and combustible gases were observed to emanate from the majority of the wells. It is reasonable to expect that excavation will foster additional reactions through reexposure to air and unavoidable mixing as the wastes are handled.

4.0 REFERENCES

Hatayama, H.R., et al., "A Method for Determining the Compatibility of Hazardous Wastes," Cincinnati, Ohio: Environmental Protection Agency, EPA-600/2-80-076, April 1980.

APPENDIX B

SURFACE WATER QUALITY DATA
(1983 4th Quarter)

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

VOLATILE ORGANIC	STATION 1	5	6	7	8	9	10	11	12	14	15	16
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	<10
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	<10
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	<10	N	N	N	N	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	<10	N	N	15
TOLUENE	<10	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	37
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	<10
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	12
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	16

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

ACID EXTRACTABLE ORGANIC	STATION 1	5	6	7	8	9	10	16
2-CHLOROPHENOL	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN WATER
UNIT=PPB (PARTS PER BILLION)
OIL LANDFARM

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 1	5	6	7	8	9	10	16
ACENAPHTHENE	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN WATER
UNIT=PPB (PARTS PER BILLION)
OIL LANDFARM

NOTE: (1) AND/OR BENZO(K) FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 1	5	6	7	8	9	10	16
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N

PCB
IN SOLUTION

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

PCB	STATION 1	5	6	7	8	9	10	11	12	14	15	16
AROCLOR 1242/1248 AND/OR 1016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
AROCLOR 1254	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
AROCLOR 1260	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PCB
SUSPENDED PARTICULATE

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

PCB	STATION 1	5	6	7	8	9	10	12	14
AROCLOR 1242/1248 AND/OR 1016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
AROCLOR 1254	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
AROCLOR 1260	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

TOTAL METALS (DETERMINED BY ICAP/AA ANALYSIS), CYANIDE, PHENOLS & MERCURY IN WATER

12:00 TUESDAY, FEBRUARY 28, 1984 1

UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM

	STATION											
PARAMETER	1	5	6	7	8	9	10	11	12	14	15	16
ALUMINUM	0.11	0.11	0.21	0.24	0.19	<0.05	<0.05	<0.05	0.64	0.11	0.32	<0.05
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BARIUM	0.048	0.073	0.98	0.95	0.042	0.104	0.086	0.059	0.081	0.22	0.093	0.098
BERYLLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BORON	<0.01	0.34	0.1	0.12	0.02	<0.01	0.03	0.04	0.04	0.08	0.1	<0.02
CADMIUM	<0.002	0.002	0.021	0.02	<0.002	<0.002	<0.002	<0.002	<0.001	<0.002	<0.002	<0.002
CALCIUM	7.2	129	325	320	6.2	74	105	120	80	65	42	35
CHROMIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	<0.02
COBALT	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
COPPER	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
IRON	0.29	0.2	0.027	0.098	0.68	0.3	0.067	0.24	1.7	0.2	0.45	8.1
LEAD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
LITHIUM	<0.1	0.2	<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MAGNESIUM	4.2	21	42	41	3.2	8.3	13.7	27	16	18	14	5.6
MANGANESE	0.046	0.088	2.5	2.4	0.026	0.01	1	0.14	0.31	0.018	0.016	0.51
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NICKEL	<0.02	<0.02	0.09	0.09	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SILICON	12.2	0.89	1.48	2.7	8.6	2	1.8	1	2.1	0.28	2.4	9.8
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SODIUM	2.8	12.4	37	36	3.4	2.6	3.3	5.8	4.7	6.2	2.3	25
STRONTIUM	0.031	0.59	0.88	0.87	0.03	0.157	0.193	0.086	0.07	0.082	0.044	0.031
THALLIUM	<0.3	<0.3	<0.3	0.6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TIN	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	0.2	0.3
TITANIUM	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007	0.016	0.003	0.01	0.012
VANADIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ZINC	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.03	0.04	0.04	<0.01
URANIUM	<2	4	<2	<2	<2	<2	<2	<0.5	<2	<0.5	<0.5	<2
CYANIDE	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
PHENOLS	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MERCURY	<0.0001	*	*	*	<0.001	<0.001	0.001	*	*	*	*	<0.001

METALS DISSOLVED IN WATER (DETERMINED BY ICAP/AA ANALYSIS)

17:00 TUESDAY, FEBRUARY 28, 1984

UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM

METAL	STATION 1	5	6	7	8	9	10	12	14
ALUMINUM	<0.05	<0.05	0.16	0.16	<0.05	<0.05	<0.05	<0.05	<0.05
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BARIUM	0.024	0.061	0.96	0.89	0.021	0.075	0.067	0.066	0.17
BERYLLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BORON	<0.01	0.56	0.11	0.11	<0.01	0.01	0.03	0.03	0.16
CADMIUM	<0.002	0.001	0.012	0.012	<0.002	<0.002	<0.002	<0.002	<0.002
CALCIUM	7.5	130	308	323	5.7	73	112	79	65
CHROMIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
COBALT	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
IRON	0.016	0.005	<0.005	<0.005	0.039	<0.005	<0.005	0.03	<0.005
LEAD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
LITHIUM	0.1	0.3	0.1	<0.1	0.4	<0.1	0.1	<0.1	<0.1
MAGNESIUM	4	22	43	42	2.9	8.1	13.6	15	17
MANGANESE	0.003	0.003	2.4	2.2	0.007	0.001	0.002	0.12	<0.001
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NICKEL	<0.02	<0.02	0.08	0.07	<0.01	<0.02	<0.02	<0.02	<0.02
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	<0.2	<0.2	<0.2
SILICON	15.1	6.5	3.6	3.6	10.4	2.8	3.4	3	3.1
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SODIUM	4.6	12.4	37	36	3.8	2.6	3.3	4.9	6.2
STRONTIUM	0.027	0.61	0.88	0.87	0.027	0.152	0.186	0.065	0.074
THALLIUM	<0.3	<0.3	<0.3	<0.3	<0.3	0.3	<0.3	<0.3	<0.3
TIN	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
TITANIUM	0.003	0.003	<0.003	<0.003	<0.003	0.003	0.003	<0.003	<0.003
VANADIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ZINC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
URANIUM	<2	4	<2	<2	<2	<2	<2	<0.5	<0.5

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS AND RELATED PARAMETERS 16:58 THURSDAY, MARCH 1, 1984 1

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

OIL LANDFARM

NOTE: (1) THIS VALUE REPRESENTS A MEAN, SAMPLE SIZE=3

PARAMETER	STATION 1	2	3	4	5	6	7	8	9	10	11	12	14	15	16
TOTAL SUSPENDED SOLIDS	6	*	*	*	2	2	2	8	14	<1	14	20	4	2	20
TOTAL DISSOLVED SOLIDS	90	*	*	*	660	1850	1780	80	290	740	770	400	400	200	110
METHYL ORANGE ALKALINITY (AS CACO3)	50	*	*	*	152	120	116	44	144	160	145	105	130	120	128
PHENOLTHALINE ALKALINITY (AS CACO3)	<1	*	*	*	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
CONDUCTIVITY (IN UMHOS/CM)	100	*	*	*	910	2732	2732	78	510	711	1028	590	570	410	291
SULFATE	6	*	*	*	300	90	85	6	70	90	338	100	53	34	5
CHLORIDE	1.5	*	*	*	18	39	38	1.2	5	50	21	15	7	4	12
NITRATE - N	<0.01	*	*	*	0.17	110	120	<0.01	<0.01	<0.01	0.03	0.05	49	11	<0.01
AMMONIA - N	0.1	*	*	*	0.09	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.7
TOTAL KJELDAHL NITROGEN	0.17	*	*	*	0.63	0.14	0.1	0.2	0.3	1.8	0.5	0.6	0.1	0.7	0.8
ORTHO PHOSPHATE - P	0.07	*	*	*	<0.01	<0.01	<0.01	0.01	<0.01	0.26	<0.01	0.03	<0.01	<0.01	3
FLUORIDE	0.2	*	*	*	2	0.6	3	0.2	0.7	0.4	<0.1	0.5	0.65	1.2	7
CHEMICAL OXYGEN DEMAND	8	*	*	*	34	4	4	8	35	630	110	90	10	30	28
BIOCHEMICAL OXYGEN DEMAND	2	*	*	*	3	2	3	<1	<1	7	7	4	2	2	2
DISSOLVED ORGANIC CARBON	<1	*	*	*	3	<1	<1	<1	7	192	33	32	7	7	6
TOTAL ORGANIC CARBON	3	*	*	*	12	5	5	3	9	236	36	29	4	3	7
OIL & GREASE IN WATER	5.0	*	*	*	0.6	0.2	0.9	1	1	9	<1	<1	<1	<1	4.4
OIL & GREASE IN SEDIMENT	400	323	*	*	*	*	*	328	230	32000	136	593	189	233	*
PH (IN PH UNITS)	7.4	7.13	7.4	7.4	7.53	7.7	6.8	6.92	6.81	6.1	5.9(1)	6.64(1)	7.84(1)	7.96(1)	6.2
DISSOLVED OXYGEN	9.3	*	1.3	5.6	7.6	9.6	9.6	9.3	5.2	7.7	6.7	6.3	9.2	9.3	*
REDOX (IN MV)	75	215	40	60	193	201	230	221	164	171	214(1)	207(1)	243(1)	226(1)	115
WATER TEMP. (IN DEGREES CENTIGRADE)	15.4	11	14.8	14	13.3	12.9	13.5	12.8	9.8	8.3	10.4	12.8	16.4	16.2	21.3

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A

STATION

VOLATILE ORGANIC	1A	2A	3A	5A	7A	8A	10A SUBSURFACE	10A SURFACE	12A	13A	14A
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	<10	N	12	N	N	N	N	<10	17	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	12	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	11	N	N	<10	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	<10	N	N	N	N	<10	24	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	303	53	N	19	<10	34	65	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	<10	<10	N
1,1-DICHLOROETHYLENE	N	N	N	N	<10	N	<10	N	<10	19	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANIC	15A	16A SUBSURFACE	16A SURFACE	19A	20A	21A	22A	23A	24A	25A	26A
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N
BENZENE	12	N	<10	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	11	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	<10	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	<10	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	22	N	N	N	N	N	N	N	N	<10	<10
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	50	N	N	11	N	N	N	N	N	<10	N
1,2-DICHLOROETHANE	<10	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	21	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A

STATION

VOLATILE ORGANIC	1A	2A	3A	5A	7A	8A	10A SUBSURFACE	10A SURFACE	12A	13A	14A
METHYLENE CHLORIDE	N	N	N	<10	N	N	N	N	<10	N	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	<10	<10	<10	21	<10	<10	126	N
TOLUENE	N	N	N	N	N	N	<10	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	888	<10	<10	40	13	284	1027	N
1,1,1-TRICHLOROETHANE	N	N	N	79	<10	<10	<10	N	16	73	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	<10	N
TRICHLOROETHYLENE	N	N	N	<10	<10	<10	16	<10	<10	96	N
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	403	N	N	23	<10	61	148	N

VOLATILE ORGANIC	15A	16A SUBSURFACE	16A SURFACE	19A	20A	21A	22A	23A	24A	25A	26A
METHYLENE CHLORIDE	<10	N	N	14	N	N	<10	15	66	<10	13
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	102	N	N	<10	N	N	N	<10	N	<10	<10
TOLUENE	N	N	N	N	N	N	N	N	510	<10	N
TRANS-1,2-DICHLOROETHYLENE	831	N	N	123	N	N	N	N	N	30	39
1,1,1-TRICHLOROETHANE	68	N	N	N	<10	N	N	N	N	<10	<10
1,1,2-TRICHLOROETHANE	<10	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	82	N	N	22	N	N	N	N	N	<10	<10
TRICHLOROFLUOROMETHANE	<10	N	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	92	N	N	24	N	N	N	N	N	N	<10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB FOR WATER . UNIT=PPM FOR OIL

BURIAL GROUND A

ACID EXTRACTABLE ORGANIC	STATION 6A WATER PHASE	6A OIL PHASE	10A OIL PHASE	24A	25A	26A
2-CHLOROPHENOL	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	23	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB FOR WATER UNIT=PPM FOR OIL

BURIAL GROUND A

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 6A WATER PHASE	6A OIL PHASE	10A OIL PHASE	24A	25A	26A
ACENAPHTHENE	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	120	370	580	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN WATER

UNIT=PPB FOR WATER UNIT=PPM FOR OIL

BURIAL GROUND A

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 6A WATER PHASE	6A OIL PHASE	10A OIL PHASE	24A	25A	26A
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N

PCB
IN SOLUTION

UNIT=PPB FOR WATER UNIT=PPB FOR OIL PHASE OF 6A UNIT=PPM FOR OIL PHASE OF 10A

BURIAL GROUND A

STATION

PCB	1A	2A	3A	5A	6A WATER PHASE	6A OIL PHASE	7A	8A	10A SUBSURFACE	10A WATER PHASE	10A OIL PHASE	12A
AROCLOR 1242/1248 AND/OR 1016	<0.1	<0.1	<0.1	<0.1	880	3800	1.4	<0.1	1.9	16	1100	2.6
AROCLOR 1254	<0.3	<0.3	<0.3	<0.3	500	2400	<0.3	<0.3	1.1	23	1500	3
AROCLOR 1260	<0.3	<0.3	<0.3	<0.3	<120	<600	<0.3	<0.3	<0.3	<2	<70	0.4

PCB	13A	14A	15A	16A SUBSURFACE	16A SURFACE	19A	20A	21A	22A	24A	25A	26A
AROCLOR 1242/1248 AND/OR 1016	0.6	<0.1	0.4	5.2	390	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
AROCLOR 1254	0.5	<0.3	1.2	2.8	210	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
AROCLOR 1260	<0.3	<0.3	0.4	<0.5	<30	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

PCB
TOTAL SUSPENDED PARTICULATE

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A

PCB	STATION 1A	7A	8A	12A	13A	15A	20A	21A	22A	24A	25A	26A
AROCLOR 1242/1248 AND/OR 1016	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
AROCLOR 1254	<0.3	<0.3	<0.3	1.1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
AROCLOR 1260	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

TOTAL METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS & MERCURY
IN WATER

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A

STATION

PARAMETER	1A	2A	3A	5A	6A	7A	8A	10A SUBSURFACE	10A SURFACE	12A	13A
ALUMINUM	0.23	2	1.5	1.6	0.1	<0.05	98	<0.05	<0.05	7.8	1
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2
BARIUM	0.075	0.15	0.094	0.4	2.1	0.42	1.2	0.26	0.28	0.26	0.15
BERYLLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001
BORON	<0.01	<0.02	<0.02	2.6	34	0.94	0.24	0.79	0.93	0.63	0.69
CADMIUM	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	0.012	<0.002	<0.002	<0.002	<0.002
CALCIUM	13	27	15	76	220	137	15	101	104	76	72
CHROMIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.13	<0.02	<0.02	<0.02	<0.02
COBALT	<0.01	0.02	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01
IRON	0.27	23	7.8	12	56	5.4	137	2	1.8	12	2.4
LEAD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.26	<0.05	<0.05	<0.05	<0.05
LITHIUM	<0.1	<0.1	<0.1	<0.1	1.6	0.2	<0.1	0.1	<0.1	<0.1	0.6
MAGNESIUM	6.3	6.9	5.3	14	39	15	8.8	13	13	10	9.6
MANGANESE	0.012	7.1	1.8	3.4	24	2.8	1	1.6	2.1	1.2	1.5
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NICKEL	<0.02	<0.02	<0.02	0.05	0.59	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SILICON	12	6.7	7.8	7.3	1.1	5.8	26	5	5.1	3.4	5.3
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01

PARAMETER	14A	15A	16A SUBSURFACE	16A SURFACE	19A	20A	21A	22A	24A	25A	26A
ALUMINUM	<0.05	<0.05	0.57	0.22	0.98	1.87	0.14	<0.05	0.19	<0.05	0.09
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BARIUM	0.15	0.42	0.017	0.017	0.15	0.056	0.57	0.51	0.198	0.154	0.139
BERYLLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BORON	0.14	0.42	0.04	0.02	1.6	0.22	0.07	0.10	14.8	0.67	2.8
CADMIUM	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.008	0.007	<0.002	<0.002	0.011
CALCIUM	107	111	3.2	3.2	66	28	165	153	46	93	76
CHROMIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
COBALT	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
IRON	0.05	0.48	2.5	2.6	1.5	3.1	0.30	0.58	0.93	0.141	0.49
LEAD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
LITHIUM	<0.1	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.9	0.8	1.9
MAGNESIUM	25	18	2.2	2.2	11	4.5	22	20	7.3	15.5	12.1
MANGANESE	0.004	2	0.54	0.55	0.38	0.036	0.97	0.95	0.24	0.029	0.115
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NICKEL	<0.02	0.04	<0.02	<0.02	0.03	<0.02	0.02	0.03	<0.02	<0.02	<0.02
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SILICON	3.2	4.2	2.5	2.1	1.6	2.2	1.2	2.3	4.5	4.0	0.22
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

TOTAL METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS & MERCURY
IN WATER

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A

PARAMETER	STATION 1A	2A	3A	5A	6A	7A	8A	10A SUBSURFACE	10A SURFACE	12A	13A
SODIUM	4.4	3.5	3.3	34	328	19	1.2	17	111	12	14
STRONTIUM	0.018	0.042	0.025	0.16	0.29	0.17	0.056	0.14	0.14	0.1	0.095
THALLIUM	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TIN	0.3	<0.2	<0.2	0.3	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2
TITANIUM	<0.003	0.022	0.021	0.033	0.003	0.003	0.059	0.007	<0.003	0.028	0.012
VANADIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.16	<0.01	<0.01	0.01	<0.01
ZINC	<0.01	<0.01	0.04	0.03	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01
URANIUM	<0.5	<2	<2	<2	<2	<2	<2	<2	<0.5	<2	<2
CYANIDE	<0.01	<0.01	<0.01	<0.01	*	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PHENOLS	<0.01	<0.01	<0.01	0.01	*	<0.01	<0.01	*	0.02	<0.01	<0.01
MERCURY	*	<0.001	<0.001	0.001	*	<0.001	<0.001	*	0.001	<0.001	*

PARAMETER	14A	15A	16A SUBSURFACE	16A SURFACE	19A	20A	21A	22A	24A	25A	26A
SODIUM	16	22	14	14	50	9.0	20	19	8.6	14.6	11.6
STRONTIUM	0.13	0.14	0.0066	0.0068	0.079	0.068	0.45	0.40	0.120	0.20	0.169
THALLIUM	<0.3	<0.3	0.4	<0.3	<0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TIN	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
TITANIUM	0.004	<0.003	0.003	<0.003	0.005	0.005	<0.003	0.003	0.004	<0.003	0.003
VANADIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ZINC	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
URANIUM	<0.5	<0.5	<0.5	<0.5	4	<2	<2	<2	<2	<2	<2
CYANIDE	0.01	0.01	<0.01	<0.01	0.01	<0.01	0.02	0.03	<0.01	0.01	0.02
PHENOLS	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	*	*	*
MERCURY	*	*	<0.001	*	*	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

METALS DISSOLVED IN WATER (DETERMINED BY ICAP/AA ANALYSIS) 10:36 TUESDAY, MARCH 6, 1984 1

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A

NOTE: (1) DISSOLVED SILICON RESULTS INDICATE CONTAMINATION FROM FILTRATION SYSTEM

	STATION												
METAL	1A	7A	8A	12A	13A	14A	15A	20A	21A	22A	24A	25A	26A
ALUMINUM	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.31	<0.05	0.14	<0.05	<0.05	<0.05
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BARIUM	0.063	0.38	0.007	0.14	0.12	0.14	0.16	0.055	0.55	0.51	0.088	0.154	0.139
BERYLLIUM	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BORON	<0.01	0.97	0.18	0.68	0.64	0.18	0.49	0.22	0.07	0.08	14.2	0.62	2.8
CADMIUM	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CALCIUM	13	139	7.5	74	72	105	109	26	165	156	40	87	76
CHROMIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
COBALT	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
IRON	0.005	0.02	0.06	0.04	0.03	<0.005	0.02	0.66	<0.005	<0.005	<0.005	<0.005	<0.005
LEAD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05
LITHIUM	<0.1	<0.1	<0.1	<0.1	1	<0.1	2.6	<0.1	<0.1	<0.1	3.9	0.8	1.4
MAGNESIUM	6.1	15	1.8	9.5	9.3	24	18	4.4	22	20	7.1	15.5	12.8
MANGANESE	0.009	2.6	0.011	0.4	1.2	0.004	1.8	0.024	<0.001	<0.001	<0.001	<0.001	<0.001
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NICKEL	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SILICON	13.5	7.7	1.6	4.3	5.2	4.1	5.4	(1)	(1)	2.2	4.5	4.0	(1)
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SODIUM	4.5	19	1.2	12	13	15	20	9.0	20	19	8.6	14.6	12.0
STRONTIUM	0.016	0.16	0.009	0.095	0.089	0.11	0.12	0.068	0.45	0.40	0.117	0.20	0.169
THALLIUM	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TIN	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
TITANIUM	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003
VANADIUM	0.03	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ZINC	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
URANIUM	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<2	<2	<2	<2	<2

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

BURIAL GROUND A

NOTE: (1) THIS VALUE REPRESENTS A MEAN, SAMPLE SIZE=3

PARAMETER	STATION 1A	2A	3A	4A	5A	7A	8A	9A
TOTAL SUSPENDED SOLIDS	20	140	76	*	130	20	3920	*
TOTAL DISSOLVED SOLIDS	100	240	124	*	440	780	140	*
METHYL ORANGE ALKALINITY (AS CACO3)	80	120	70	*	155	150	34	*
PHENOLTHALINE ALKALINITY (AS CACO3)	<1	<1	<1	*	<1	<1	<1	*
CONDUCTIVITY (IN UMHOS/CM)	121	204	119	*	731	1008	66	*
SULFATE	6	8	1	*	12	1	25	*
CHLORIDE	1	1.5	3	*	120	260	2.5	*
NITRATE - N	0.03	0.04	0.03	*	0.03	0.02	0.02	*
AMMONIA - N	0.05	0.18	0.2	*	0.1	0.51	0.28	*
TOTAL KJELDAHL NITROGEN	0.14	0.6	0.4	*	1	0.8	3.7	*
ORTHO PHOSPHATE - P	0.06	<0.01	<0.01	*	<0.01	<0.01	<0.01	*
FLUORIDE	<0.1	0.4	0.5	*	0.2	0.9	0.3	*

PARAMETER	10A SUBSURFACE	10A SURFACE	11A	12A	13A	14A	15A	16A SUBSURFACE
TOTAL SUSPENDED SOLIDS	14	1080	*	240	40	<1	12	40
TOTAL DISSOLVED SOLIDS	620	370	*	430	410	520	552	140
METHYL ORANGE ALKALINITY (AS CACO3)	102	112	*	88	100	266	212	26
PHENOLTHALINE ALKALINITY (AS CACO3)	<1	<1	*	<1	<1	<1	<1	<1
CONDUCTIVITY (IN UMHOS/CM)	716	832	*	610	590	711	812	47
SULFATE	5	5	*	7	21	24	37	<1
CHLORIDE	210	3	*	145	120	27	120	190
NITRATE - N	0.03	<0.01	*	<0.01	0.08	58	22	<0.01
AMMONIA - N	0.08	0.2	*	0.15	0.14	0.64	0.10	0.3
TOTAL KJELDAHL NITROGEN	0.58	2	*	0.95	0.7	0.13	1	1.2
ORTHO PHOSPHATE - P	0.01	0.06	*	<0.01	<0.01	<0.01	<0.01	0.02
FLUORIDE	0.1	0.5	*	0.33	0.2	0.3	0.2	0.15

PARAMETER	16A SURFACE	17A	19A	20A	21A	22A	23A	24A	25A	26A
TOTAL SUSPENDED SOLIDS	100	*	40	30	<1	2	*	2	1	3
TOTAL DISSOLVED SOLIDS	80	*	410	210	930	850	*	270	450	426
METHYL ORANGE ALKALINITY (AS CACO3)	26	*	244	40	64	62	*	124	156	134
PHENOLTHALINE ALKALINITY (AS CACO3)	<1	*	<1	<1	<1	<1	*	<2	<2	<2
CONDUCTIVITY (IN UMHOS/CM)	47	*	610	291	1288	1206	*	450	772	650
SULFATE	5	*	51	41	60	55	*	10	30	30
CHLORIDE	180	*	30	14	22	21	*	42	70	50
NITRATE - N	<0.01	*	3.9	2	112	126	*	0.06	31	39
AMMONIA - N	0.2	*	0.23	0.14	0.1	0.1	*	0.1	<0.1	0.1
TOTAL KJELDAHL NITROGEN	1	*	0.85	0.6	0.2	0.1	*	0.2	0.5	0.1
ORTHO PHOSPHATE - P	0.02	*	0.02	<0.01	<0.01	<0.01	*	<0.01	<0.01	0.02
FLUORIDE	0.14	*	0.4	1	1.6	0.8	*	0.5	0.3	0.4

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

BURIAL GROUND A

NOTE: (1) THIS VALUE REPRESENTS A MEAN, SAMPLE SIZE=3

STATION

PARAMETER	1A	2A	3A	4A	5A	7A	8A	9A	10A SUBSURFACE	10A SURFACE	11A	12A
CHEMICAL OXYGEN DEMAND	<1	80	30	*	15	50	100	*	54	910	*	65
BIOCHEMICAL OXYGEN DEMAND	1	2	<1	*	7	4	4	*	5	212	*	9
DISSOLVED ORGANIC CARBON	1	14	10	*	4	6	6	*	29	41	*	12
TOTAL ORGANIC CARBON	3	14	7	*	9	12	5	*	34	108	*	12
OIL & GREASE IN WATER	1	<1	1	*	<1	1.3	13	*	*	397	*	6.8
OIL & GREASE IN SEDIMENT	434	239	500	587	1028	1200	305	55378	*	*	59739	1156
PH (IN PH UNITS)	7.61(1)	6.40(1)	7.29(1)	*	6.82(1)	6.93(1)	7.64(1)	*	7.30(1)	*	*	6.63(1)
DISSOLVED OXYGEN	9.2	*	6.9	*	*	4.2	8.8	*	*	*	*	9.2
REDOX (IN MV)	231(1)	53(1)	140(1)	*	96(1)	73(1)	183(1)	*	282(1)	*	*	113(1)
WATER TEMP. (IN DEGREES CENTIGRADE)	13.0	19.8	20.7	*	14.2	19.0	14.3	*	23.0	*	*	16.2

PARAMETER	13A	14A	15A	16A SUBSURFACE	16A SURFACE	17A	19A	20A	21A	22A	23A	24A	25A	26A
CHEMICAL OXYGEN DEMAND	30	7	30	160	210	*	62	60	16	47	*	8.0	31	8.0
BIOCHEMICAL OXYGEN DEMAND	4	2	3	12	3	*	2	2	1	1	*	2.0	2.0	2.0
DISSOLVED ORGANIC CARBON	10	5	9	45	41	*	21	6	5	5	*	3	3	6
TOTAL ORGANIC CARBON	10	28	9	41	41	*	23	7	6	5	*	4	6	4
OIL & GREASE IN WATER	27	1	<1	15	21	*	1	4.4	<1	<1	*	1.5	1	2.9
OIL & GREASE IN SEDIMENT	1217	92	683	*	*	29872	*	470	199	269	*	3111	108	152
PH (IN PH UNITS)	6.55(1)	8.11(1)	7.78(1)	5.93(1)	6.17(1)	*	7.59(1)	6.7	6.9	6.65	7.35	7.28	7.6	7.14
DISSOLVED OXYGEN	10.6	9.3	8.2	*	*	*	7.2	7.9	9.2	9.3	7.4	9.2	7.6	8.8
REDOX (IN MV)	199(1)	159(1)	126(1)	185(1)	219(1)	*	215(1)	242	200	195	206	190	245	235
WATER TEMP. (IN DEGREES CENTIGRADE)	13.2	14.9	14.2	17.7	19.9	*	19.2	13.6	13.0	13.7	10.3	9.1	15.4	9.5

SOURCE & SPECIAL NUCLEAR MATERIAL
IN WATER

UNIT=PCI/L (PICOCURIES PER LITER)

BURIAL GROUND A

NUCLEAR MATERIAL	STATION 1A INSOLUBLE	STATION 1A SOLUBLE	STATION 23A TOTAL	STATION 25A TOTAL
TOTAL URANIUM	13.3800	13.00	10732.0	159.550
TOTAL THORIUM	0.5300	0.17	0.1	0.390
TOTAL TRANSURANICS	0.0402	0.00	1.6	0.729

APPENDIX B

SURFACE WATER QUALITY DATA
(1984 1st Quarter)

VOLATILE ORGANIC PRIORITY POLLUTANTS IN SPRING AND SURFACE WATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	STATION/SPRING									
	STAT. 8-1	SPR. 4	STAT. 7-1	STAT. 6-1	STAT. 11-3	SPR. 2	SPR. 3	STAT. 3-1	SPR. 1	STAT. 2-1
ACROLEIN	N	N	*	*	N	N	N	*	N	N
ACRYLONITRILE	N	N	*	*	N	N	N	*	N	N
BENZENE	N	N	*	*	N	N	N	*	N	N
BROMOFORM	N	N	*	*	N	N	N	*	N	N
CARBON TETRACHLORIDE	N	N	*	*	N	N	N	*	N	N
CHLOROBENZENE	N	N	*	*	N	N	N	*	N	N
CHLORODIBROMOMETHANE	N	N	*	*	N	N	N	*	N	N
CHLOROETHANE	N	N	*	*	N	N	N	*	N	N
2-CHLOROETHYLVINYL ETHER	N	N	*	*	N	N	N	*	N	N
CHLOROFORM	N	N	*	*	N	N	N	*	N	N
BROMODICHLOROMETHANE	N	N	*	*	N	N	N	*	N	N
DICHLORODIFLUOROMETHANE	N	N	*	*	N	N	N	*	N	N
1,1-DICHLOROETHANE	N	N	*	*	N	N	N	*	N	N
1,2-DICHLOROETHANE	N	N	*	*	N	N	N	*	N	N
1,1-DICHLOROETHENE	N	N	*	*	N	N	N	*	N	N
1,2-DICHLOROPROPANE	N	N	*	*	N	N	N	*	N	N
CIS-1,3-DICHLOROPROPENE	N	N	*	*	N	N	N	*	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	*	*	N	N	N	*	N	N
ETHYLBENZENE	N	N	*	*	N	N	N	*	N	N
BROMOMETHANE	N	N	*	*	N	N	N	*	N	N
CHLOROMETHANE	N	N	*	*	N	N	N	*	N	N
METHYLENE CHLORIDE	N	N	*	*	N	N	N	*	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	*	*	N	N	N	*	N	N
TETRACHLOROETHENE	16	N	*	*	N	N	N	*	N	N
TOLUENE	N	N	*	*	N	N	N	*	N	N
TRANS-1,2-DICHLOROETHENE	42	N	*	*	N	N	N	*	N	N
1,1,1-TRICHLOROETHANE	<10	N	*	*	N	N	N	*	N	N
1,1,2-TRICHLOROETHANE	N	N	*	*	N	N	N	*	N	N
TRICHLOROETHENE	<10	N	*	*	N	N	11	*	N	N
FLUOROTRICHLOROMETHANE	N	N	*	*	N	N	N	*	N	N
VINYL CHLORIDE	<10	N	*	*	N	N	N	*	N	N

VOLATILE ORGAN
NON-PRIORITY POLLUTANTS
IN SPRING AND SURFACE WATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	STATION/SPRING									
VOLATILE ORGANIC	STAT. 8-1	SPR. 4	STAT. 7-1	STAT. 6-1	STAT. 11-3	SPR. 2	SPR. 3	STAT. 3-1	SPR. 1	STAT. 2-1
METHYL ETHYL KETONE	N	N	*	*	N	N	N	*	N	N

METALS (DETERMINED BY ICA A ANALYSIS)
AND MERCURY
IN SPRING AND SURFACE WATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	STATION/SPRING									
ETAL	STAT. 8-1	SPR. 4	STAT. 7-1	STAT. 6-1	STAT. 11-3	SPR. 2	SPR. 3	STAT. 3-1	SPR. 1	STAT. 2-1
LUMINUM	1.8	0.07	0.26	0.31	<*0.05	0.05	0.31	0.38	0.05	0.45
NTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
RSENIC	<*0.2	<*0.2	<*0.2	0.2	0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
ARIUM	0.13	0.042	0.12	0.14	0.038	0.035	0.069	0.21	0.066	0.39
ERYLLIUM	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	0.004	<*0.001	<*0.001	<*0.001
ORON	0.37	0.02	0.03	0.05	<*0.01	<*0.01	0.03	<*0.01	<*0.01	0.04
ADMIUM	<*0.002	<*0.002	<*0.002	0.003	0.003	<*0.002	<*0.002	0.005	<*0.002	0.012
ALCIUM	43	34	49	54	14	21	55	78	22	120
HROMIUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
OBALT	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
OPPER	<*0.01	<*0.01	<*0.01	0.04	<*0.01	0.03	0.04	0.04	0.03	0.04
RON	2.5	0.14	0.45	0.28	0.044	0.016	0.28	0.73	<*0.005	0.52
EAD	<*0.05	<*0.05	<*0.05	<*0.05	0.09	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
ITHIUM	0.26	0.06	0.07	0.24	0.05	0.08	0.15	0.17	<*0.03	0.09
AGNESIUM	7.6	11	8.6	9.0	8.3	12	16	13	13	15
ANGANESE	0.28	0.006	0.27	0.28	0.003	0.001	0.13	0.53	<*0.001	1.1
OLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
ICKEL	<*0.02	<*0.02	0.02	0.03	<*0.02	<*0.02	<*0.02	0.03	<*0.02	0.08
ELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
ILICON	5.0	3.3	3.8	2.6	2.9	2.4	0.78	2.9	<*0.05	3.9
ILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	0.11	0.11	0.10	<*0.01	0.12
ODIUM	8.6	2.9	7.5	7.7	0.40	<*0.05	6.0	11	0.16	19
TRONTIUM	0.11	0.045	0.13	0.15	0.0070	0.0066	0.084	0.22	0.0091	0.31
HALLIUM	<*0.3	<*0.3	<*0.3	0.4	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3
IN	<*0.2	<*0.2	<*0.2	0.3	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
ITANIUM	0.009	<*0.003	<*0.003	<*0.003	<*0.003	<*0.003	0.008	0.019	0.024	0.015
ANADIUM	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
INC	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
RANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
ERCURY	<*0.001	<*0.001	*	*	<*0.001	<*0.001	<*0.001	*	<*0.001	<*0.001

MISCELLANEOUS CONVENTIONAL AND NONC /ENTIONAL POLLUTANTS
AND RELATED PARAM..ERS
IN SPRING AND SURFACE WATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

TER	STAT. 8-1	SPR. 4	STAT. 7-1	STAT. 6-1	STAT. 11-3	SPR. 2	SPR. 3	STAT. 3-1	SPR. 1	STAT. 2-1
	STATION/SPRING									
SUSPENDED SOLIDS	54	20	*	*	2	1	14	*	<*1	16
PHTHALEIN ALKALINITY	<*1	<*1	*	*	<*1	<*1	<*1	*	<*1	<*1
ORANGE ALKALINITY	83	122	*	*	76	110	162	*	120	72
TIVITY (IN UMHOS/CM)	350	275	385	390	130	200	410	600	190	800
E	19	5	*	*	2	1	13	*	1	25
E - N	15	4	*	*	0.01	0.04	8	*	0.02	32
A - N	0.06	0.05	*	*	0.02	0.04	0.05	*	0.01	0.12
PHOSPHATE - P	0.02	0.01	*	*	<*0.01	<*0.01	0.01	*	<*0.01	<*0.01
KJELDAHL NITROGEN	0.13	0.10	*	*	0.12	0.12	0.08	*	0.12	0.19
AL OXYGEN DEMAND	13	5	*	*	5	7	5	*	3	16
ORGANIC CARBON	1	<*1	1	2	1	3	2	1	1	3
PH UNITS)	6.1	6.7	5.7	6.7	6.8	6.2	6.9	6.3	6.2	5.9
(IN MV)	530	535	566	560	501	505	618	502	493	500
TEMP. (IN DEGREES CENTIGRADE)	8.0	9.4	8.2	8.0	9.1	9.8	10.1	8.4	10.7	7.6

RADIONUCLIDE

IN SPRING AND SURFACE WATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	STATION/SPRING									
RADIONUCLIDE	STAT. 8-1	SPR. 4	STAT. 7-1	STAT. 6-1	STAT. 11-3	SPR. 2	SPR. 3	STAT. 3-1	SPR. 1	STAT. 2-1
TOTAL URANIUM	53.6	13.97	64.3	69.0	0.21	0.24	26.9	110.7	0.151	25.0

APPENDIX C

GROUND-WATER QUALITY DATA
(1983 4th Quarter)

VOLATILE ORGANIC PRIORITY POLLUTANTS
IN GROUNDWATER

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

VOLATILE ORGANIC	WELL NUMBER GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	<10	N	N	<10	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	<10	N	<10	N	N	N	<10	N	N	N	N	<10	<10
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	<10	N	1100	N	26	22	<10	17	N	<10	N	N	N
1,2-DICHLOROETHANE	N	N	<10	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	<10	N	510	N	11	15	<10	<10	<10	15	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	<10	<10	N	N	N	N	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	51	320	40	<10	<10	110	N	N	N
TOLUENE	N	N	<10	N	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	130	520	<10	16	13	89	N	N	N
1,1,1-TRICHLOROETHANE	<10	N	440	N	14	21	<10	<10	<10	21	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	14	49	<10	<10	<10	45	N	N	N
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N	<10	N	N	N	N	N	N
VINYL CHLORIDE	N	N	<10	N	N	10	N	N	N	N	N	N	N

VOLATILE ORGANIC PRIORITY POLLUTANTS
IN GROUNDWATER

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A

VOLATILE ORGANIC	WELL NUMBER GW-15	GW-16	GW-17	GW-18	GW-22	GW-23	GW-45	GW-46	GW-47	GW-49	GW-51	GW-52	GW-53
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	180000	N	N	N	N	N	N	<10	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	2600	N	<10	N	N	23	<10	<10	N	N	<10	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	8500	N	N	N	N	N	N	20	N	N	N	N	<10
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	<10	N	N	N	N	N
1,1-DICHLOROETHYLENE	5300	N	N	N	N	N	N	<10	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	12	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	1600	<10	<10	N	<10	870	N	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	3600	N	N	N	N	N	<10	38	N	N	N	N	<10
TOLUENE	360	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	110000	N	N	N	N	N	N	79	N	N	N	N	<10
1,1,1-TRICHLOROETHANE	81000	N	N	N	N	N	N	21	N	N	N	N	<10
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	58	N	N	N	N	N	N	11	N	N	N	N	<10
TRICHLOROFLUOROMETHANE	2200	N	N	N	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	2500	N	N	N	N	N	N	N	N	N	N	N	17

VOLATILE ORGANIC PRIORITY POLLUTANTS
IN GROUNDWATER

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND - BACKGROUND

VOLATILE ORGANIC	WELL NUMBER GW-41	GW-42
ACROLEIN	N	N
ACRYLONITRILE	N	N
BENZENE	N	N
BROMOFORM	N	N
CARBON TETRACHLORIDE	N	N
CHLOROBENZENE	N	N
CHLORODIBROMOMETHANE	N	N
CHLOROETHANE	N	N
2-CHLOROETHYL VINYL ETHER	N	N
CHLOROFORM	<10	N
DICHLOROBROMOMETHANE	N	N
DICHLORODIFLUOROMETHANE	N	N
1,1-DICHLOROETHANE	N	N
1,2-DICHLOROETHANE	N	N
1,1-DICHLOROETHYLENE	N	N
1,2-DICHLOROPROPANE	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N
ETHYL BENZENE	N	N
METHYL BROMIDE	N	N
METHYL CHLORIDE	N	N
METHYLENE CHLORIDE	<10	<10
1,1,2,2-TETRACHLOROETHANE	N	N
TETRACHLOROETHYLENE	N	N
TOLUENE	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N
1,1,1-TRICHLOROETHANE	N	<10
1,1,2-TRICHLOROETHANE	N	N
TRICHLOROETHYLENE	N	N
TRICHLOROFLUOROMETHANE	N	N
VINYL CHLORIDE	N	N

PCB
IN GROUNDWATER

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

PCB	WELL NUMBER												
	GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44
AROCLOR 1242/1248 AND/OR 1016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
AROCLOR 1254	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
AROCLOR 1260	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3

METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS, AND MERCURY
IN GROUNDWATER
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM

	WELL NUMBER												
PARAMETER	GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44
ALUMINUM	12	0.16	11	32	3.1	14	42	72	0.60	20	14	38	6.2
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BARIUM	0.18	0.31	0.33	1.1	0.20	0.28	0.37	1.7	0.12	0.33	0.72	0.34	0.29
BERYLLIUM	0.001	<0.001	<0.001	0.002	<0.001	0.002	0.007	0.007	<0.001	0.001	0.001	0.002	<0.001
BORON	<0.02	0.02	0.03	1.0	0.03	0.02	0.04	0.10	0.11	0.20	<0.02	<0.02	<0.02
CADMIUM	<0.002	<0.002	<0.002	0.023	0.002	<0.002	0.004	0.012	<0.002	0.003	<0.002	0.004	<0.002
CALCIUM	18	48	67	120	71	25	43	100	32	25	88	14	52
CHROMIUM	0.04	0.10	0.10	0.12	0.11	0.13	0.27	0.31	0.06	0.14	0.06	0.18	0.20
COBALT	<0.01	<0.01	<0.01	0.03	<0.01	0.02	0.05	0.18	<0.01	0.02	0.01	0.04	<0.01
COPPER	<0.01	<0.01	<0.01	0.30	0.01	0.02	0.06	0.10	<0.01	0.03	0.01	0.04	0.02
IRON	21	0.64	12	59	6.3	36	79	220	1.5	39	19	56	12
LEAD	<0.05	<0.05	0.09	0.27	0.06	<0.05	0.17	0.19	<0.05	0.06	<0.05	0.13	0.12
LITHIUM	0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	<0.1
MAGNESIUM	5.4	6.3	10	39	6.1	6.0	19	28	5.3	8.4	21	18	10
MANGANESE	0.90	0.041	0.48	3.0	0.26	2.3	2.5	10	0.092	1.8	0.67	1.9	1.2
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NICKEL	0.13	0.05	0.06	0.13	0.05	0.10	0.18	0.31	0.02	0.11	0.05	0.14	0.11
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SILICON	16	8.4	22	27	2.7	2.2	23	62	8.1	18	15	12	11
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SODIUM	3.3	5.6	21	22	5.6	5.0	1.3	4.9	28	4.5	5.5	8.2	3.8
STRONTIUM	0.038	0.13	0.22	0.87	0.22	0.061	0.074	0.26	0.18	0.062	0.22	0.055	0.100
THALLIUM	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
TIN	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2	<0.2	<0.2
TITANIUM	0.11	0.006	0.013	0.15	0.017	0.069	0.10	0.16	0.017	0.21	0.027	0.15	0.077
VANADIUM	0.04	<0.01	<0.01	0.05	<0.01	0.04	0.04	0.11	<0.01	0.04	<0.01	0.03	<0.01
ZINC	0.04	0.03	0.05	0.61	0.01	0.05	0.08	0.27	<0.01	0.08	0.03	0.14	0.06
URANIUM	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
CYANIDE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01
PHENOLS	*	*	*	*	0.1	0.1	0.1	<0.1	<0.1	<0.1	*	*	*
MERCURY	<0.001	<0.001	0.003	0.040	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001

METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS, AND MERCURY
IN GROUNDWATER
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A

NOTE: (1) HIGHER DETECTION LIMIT DUE TO SPECTRAL INTERFERENCES

	WELL NUMBER												
PARAMETER	GW-15	GW-16	GW-17	GW-18	GW-22	GW-23	GW-45	GW-46	GW-47	GW-49	GW-51	GW-52	GW-53
ALUMINUM	12	3.1	0.06	1.7	0.29	<1(1)	2.5	41	70	0.10	*	4.0	4.9
ANTIMONY	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	*	<0.05	<0.05
ARSENIC	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	*	<0.2	<0.2
BARIUM	0.84	0.12	0.29	0.027	0.30	17	0.071	0.64	1.4	0.043	*	0.15	0.28
BERYLLIUM	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.004	0.005	<0.001	*	<0.001	<0.001
BORON	0.72	0.03	0.03	<0.02	0.08	<0.02	<0.02	<0.02	0.06	0.11	*	0.06	0.20
CADMIUM	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	0.007	<0.002	*	<0.002	<0.002
CALCIUM	256	8.4	59	3.7	22	1970	56	14	28	83	*	91	139
CHROMIUM	0.06	0.05	0.02	0.05	<0.02	0.04	0.03	0.16	0.23	<0.01	*	0.05	0.08
COBALT	0.02	0.03	<0.01	<0.01	<0.01	0.05	<0.01	0.05	0.12	<0.01	*	<0.01	<0.01
COPPER	0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03	0.05	0.08	<0.01	*	0.02	0.01
IRON	34	7.1	0.35	3.2	0.73	3.9	4.0	79	146	0.38	*	9.6	12
LEAD	<0.05	0.06	<0.05	0.06	<0.05	<0.05	<0.05	0.14	0.22	<0.05	*	<0.05	<0.05
LITHIUM	2.5	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.2	<0.1	*	<0.1	0.1
MAGNESIUM	25	2.9	6.1	1.8	6.4	160	3.8	17	30	4.4	*	14	19
MANGANESE	20	2.1	0.012	0.17	0.017	2.8	0.12	4.4	5.8	0.036	*	0.26	0.33
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	*	<0.02	<0.02
NICKEL	0.06	0.03	<0.02	0.03	<0.02	0.04	0.03	0.15	0.20	<0.02	*	0.03	0.05
SELENIUM	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	*	<0.2	<0.2
SILICON	17	7.8	6.2	8.2	7.4	3.8	6.9	26	56	4.1	*	6.1	11
SILVER	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	*	<0.01	<0.01
SODIUM	18	1.1	7.1	1.3	34	43	1.5	2.9	4.4	3.3	*	8.3	6.2
STRONTIUM	0.55	0.023	0.33	0.009	0.79	3.3	0.085	0.054	0.093	0.13	*	0.18	0.57
THALLIUM	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	*	<0.3	<0.3
TIN	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	*	<0.2	<0.2
TITANIUM	0.12	0.048	0.004	0.038	0.005	0.015	0.042	0.25	0.64	0.003	*	0.024	0.096
VANADIUM	0.03	0.02	<0.01	<0.01	0.01	<0.01	0.01	0.06	0.10	0.01	*	0.02	<0.01
ZINC	0.37	0.01	0.01	0.01	<0.01	0.07	0.04	0.16	0.31	<0.01	*	0.02	0.02
URANIUM	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	*	<2	<2
CYANIDE	<0.01	<0.01	<0.01	0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	*	<0.01	<0.01
PHENOLS	*	*	*	*	*	*	*	*	*	*	*	*	<0.01
MERCURY	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002

METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS, AND MERCURY
IN GROUNDWATER
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND - BACKGROUND

	WELL NUMBER	
PARAMETER	GW-41	GW-42
ALUMINUM	9.1	3.2
ANTIMONY	<0.05	<0.05
ARSENIC	<0.2	<0.2
BARIUM	0.22	0.17
BERYLLIUM	<0.001	<0.001
BORON	<0.04	0.02
CADMIUM	<0.002	<0.002
CALCIUM	4.7	3.8
CHROMIUM	0.04	0.02
COBALT	0.02	<0.01
COPPER	0.03	<0.01
IRON	22	7.4
LEAD	0.09	<0.05
LITHIUM	<0.1	<0.1
MAGNESIUM	5.4	5.2
MANGANESE	0.46	0.35
MOLYBDENUM	<0.02	<0.02
NICKEL	0.06	0.04
SELENIUM	<0.2	<0.2
SILICON	11	14
SILVER	<0.01	<0.01
SODIUM	3.8	2.8
STRONTIUM	0.024	0.018
THALLIUM	0.4	0.5
TIN	<0.2	<0.2
TITANIUM	0.099	0.059
VANADIUM	<0.01	<0.01
ZINC	0.04	0.01
URANIUM	<2	<2
CYANIDE	<0.01	<0.01
PHENOLS	*	*
MERCURY	<0.001	<0.001

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER
UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

OIL LANDFARM

PARAMETER	GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8
	WELL NUMBER						
TOTAL SUSPENDED SOLIDS	360	<1	940	2230	230	630	2240
PHENOLTHALINE ALKALINITY (AS CACO3)	<1	<1	<1	<1	<1	<1	<1
METHYL ORANGE ALKALINITY (AS CACO3)	64	158	142	478	182	60	138
TOTAL DISSOLVED SOLIDS	130	140	260	520	260	240	190
CONDUCTIVITY (IN UMHOS/CM)	117	370	510	910	430	178	311
SULFATE	5	5	15	15	7	1	1
CHLORIDE	1	1	64	13	18	27	5
NITRATE - N	<0.01	<0.01	0.1	0.04	1.8	0.1	0.2
AMMONIA - N	0.1	0.1	<0.1	4	0.1	0.1	0.1
ORTHO PHOSPHATE - P	0.07	0.02	0.04	0.02	<0.01	0.02	0.01
FLUORIDE	0.4	0.1	0.8	2	0.1	0.5	1.4
TOTAL KJELDAHL NITROGEN	0.3	0.1	0.2	5.5	0.2	0.4	1
CHEMICAL OXYGEN DEMAND	2	5	6.0	100	4	1	35
TOTAL ORGANIC CARBON	<1	<1	3	27	<1	4	3
BIOCHEMICAL OXYGEN DEMAND	1	<1	<1	8	<1	1	<1
PH (IN PH UNITS)	6.62	6.90	6.74	6.96	7.19	6.20	6.57
REDOX (IN MV)	190	209	134	180	180	160	226
DISSOLVED OXYGEN	7.9	2.7	2.9	1.3	2.4	3.3	2.0
WATER TEMP. (IN DEGREES CENTIGRADE)	14.9	14.3	17.4	15.9	13.3	14.3	15.6
STATIC WATER LEVEL (IN FEET BELOW GRADE)	8.5	13.6	5.1	1.8	3.4	3.7	12.0
DATE SAMPLED	11/18/83	11/18/83	11/18/83	11/18/83	11/17/83	11/17/83	11/17/83
DATE STATIC WATER LEVEL MEASURED	11/18/83	11/18/83	11/18/83	11/18/83	11/18/83	11/18/83	11/18/83

PARAMETER	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44
TOTAL SUSPENDED SOLIDS	5280	50	1050	630	1430	200
PHENOLTHALINE ALKALINITY (AS CACO3)	<1	<1	<1	<1	<1	<1
METHYL ORANGE ALKALINITY (AS CACO3)	228	158	72	302	56	164
TOTAL DISSOLVED SOLIDS	40	400	180	410	170	200
CONDUCTIVITY (IN UMHOS/CM)	510	370	138	610	123	370
SULFATE	9	4	2	8	15	7
CHLORIDE	18	10	6	6	2	2
NITRATE - N	1.3	0.1	0.7	<0.01	<0.01	<0.01
AMMONIA - N	0.1	0.1	0.1	0.1	0.10	0.10
ORTHO PHOSPHATE - P	<0.01	0.04	0.09	0.07	<0.01	0.09
FLUORIDE	2.5	0.2	0.6	0.5	1.3	0.5
TOTAL KJELDAHL NITROGEN	1.5	0.2	0.5	0.4	0.6	0.2
CHEMICAL OXYGEN DEMAND	20	8.0	19	7	8.0	4.0
TOTAL ORGANIC CARBON	6	<1	<1	2	2	1
BIOCHEMICAL OXYGEN DEMAND	4	3	4	<1	<1	2
PH (IN PH UNITS)	6.29	7.08	6.50	6.06	6.50	7.10
REDOX (IN MV)	176	191	175	209	180	200
DISSOLVED OXYGEN	2.7	1.2	5.0	4.8	6.6	3.0
WATER TEMP. (IN DEGREES CENTIGRADE)	15.3	14.9	14.5	15.4	12.9	13.3
STATIC WATER LEVEL (IN FEET BELOW GRADE)	2.1	0.0	2.0	*	3.9	29.4
DATE SAMPLED	11/17/83	11/17/83	11/17/83	11/18/83	11/18/83	11/18/83
DATE STATIC WATER LEVEL MEASURED	11/18/83	11/18/83	11/18/83	*	11/18/83	11/18/83

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER
UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

BURIAL GROUND A

WELL NUMBER

PARAMETER	GW-15	GW-16	GW-17	GW-18	GW-22	GW-23	GW-45
TOTAL SUSPENDED SOLIDS	1191	159	3.0	99	15.0	49	90
PHENOLTHALINE ALKALINITY (AS CACO3)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1
METHYL ORANGE ALKALINITY (AS CACO3)	500	40.0	210	30	170	170	140
TOTAL DISSOLVED SOLIDS	*	*	*	*	*	*	*
CONDUCTIVITY (IN UMHOS/CM)	1430	64	351	38	311	10950	331
SULFATE	16.0	4.0	3.0	1.0	6.0	1.0	7
CHLORIDE	240	0.7	1.4	1.4	1.3	3200	5
NITRATE - N	0.01	1.6	0.01	0.14	0.01	112	4.4
AMMONIA - N	4.0	0.1	<0.1	<0.1	<0.1	<0.1	0.05
ORTHO PHOSPHATE - P	0.03	0.01	<0.01	<0.01	0.01	0.02	<0.01
FLUORIDE	0.1	0.1	0.1	<0.1	0.2	0.1	0.1
TOTAL KJELDAHL NITROGEN	0.60	0.35	0.12	0.10	0.15	0.29	0.20
CHEMICAL OXYGEN DEMAND	420	5.0	2.0	4.0	4.0	0.4	7
TOTAL ORGANIC CARBON	110	<1	<1	<1	<1	4	<1
BIOCHEMICAL OXYGEN DEMAND	*	*	*	*	*	*	*
PH (IN PH UNITS)	6.66	6.24	7.16	7.40	7.08	5.95	6.53
REDOX (IN MV)	(-10)	196	124	234	160	93	156
DISSOLVED OXYGEN	2.3	2.9	2.7	9.3	1.8	1.2	6.4
WATER TEMP. (IN DEGREES CENTIGRADE)	11.2	11.0	11.8	12.5	12.0	14.8	11.3
STATIC WATER LEVEL (IN FEET BELOW GRADE)	1.5	8.6	11.2	11.1	+1.4	9.0	12.2
DATE SAMPLED	12/9/83	12/9/83	12/9/83	12/9/83	12/9/83	12/9/83	12/8/83
DATE STATIC WATER LEVEL MEASURED	12/9/83	12/9/83	12/9/83	12/9/83	12/9/83	12/9/83	12/8/83

PARAMETER	GW-46	GW-47	GW-49	GW-50	GW-51	GW-52	GW-53
TOTAL SUSPENDED SOLIDS	3472.0	5146	416	*	*	237.0	481
PHENOLTHALINE ALKALINITY (AS CACO3)	<2.0	<2.0	<2.0	*	*	<2.0	<1
METHYL ORANGE ALKALINITY (AS CACO3)	50	50.0	250	*	*	130	270
TOTAL DISSOLVED SOLIDS	*	*	*	*	*	*	*
CONDUCTIVITY (IN UMHOS/CM)	93	64	430	*	*	630	691
SULFATE	8.0	40.0	14.0	*	*	29.0	13
CHLORIDE	4.0	0.6	11	*	*	10.0	75
NITRATE - N	0.20	<0.01	0.10	*	*	70.0	<0.01
AMMONIA - N	<0.1	<0.1	<0.1	*	*	<0.1	0.03
ORTHO PHOSPHATE - P	0.02	0.19	0.01	*	*	0.01	<0.01
FLUORIDE	0.1	<0.1	0.1	*	*	0.2	<0.1
TOTAL KJELDAHL NITROGEN	1.0	0.80	0.2	*	*	0.12	0.19
CHEMICAL OXYGEN DEMAND	25.0	2.0	2.0	*	*	3.0	14
TOTAL ORGANIC CARBON	3	<1	<1	*	*	4	4
BIOCHEMICAL OXYGEN DEMAND	*	*	*	*	*	*	*
PH (IN PH UNITS)	6.01	6.72	7.13	*	6.90	6.70	6.30
REDOX (IN MV)	140	142	207	*	170	153	97
DISSOLVED OXYGEN	4.4	6.8	5.0	*	9.0	7.5	4.2
WATER TEMP. (IN DEGREES CENTIGRADE)	12.6	12.3	11.6	*	10.9	11.0	10.3
STATIC WATER LEVEL (IN FEET BELOW GRADE)	14.9	5.4	*	12.1	5.9	8.7	4.7
DATE SAMPLED	12/9/83	12/9/83	12/9/83	*	12/9/83	12/9/83	12/8/83
DATE STATIC WATER LEVEL MEASURED	12/9/83	12/9/83	*	12/9/83	12/9/83	12/9/83	12/8/83

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER
UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

BURIAL GROUND - BACKGROUND

PARAMETER	WELL NUMBER GW-41	GW-42
TOTAL SUSPENDED SOLIDS	848.0	844
PHENOLTHALINE ALKALINITY (AS CACO3)	<2.0	<2.0
METHYL ORANGE ALKALINITY (AS CACO3)	30	40.0
TOTAL DISSOLVED SOLIDS	*	*
CONDUCTIVITY (IN UMHOS/CM)	72	68
SULFATE	25.0	10.0
CHLORIDE	1.6	2.0
NITRATE - N	0.13	0.01
AMMONIA - N	<0.1	<0.1
ORTHO PHOSPHATE - P	<0.01	0.05
FLUORIDE	0.2	0.2
TOTAL KJELDAHL NITROGEN	0.46	0.28
CHEMICAL OXYGEN DEMAND	2.0	0.4
TOTAL ORGANIC CARBON	<1	<1
BIOCHEMICAL OXYGEN DEMAND	*	*
PH (IN PH UNITS)	6.41	7.47
REDOX (IN MV)	137	147
DISSOLVED OXYGEN	2.8	5.7
WATER TEMP. (IN DEGREES CENTIGRADE)	12.2	12.4
STATIC WATER LEVEL (IN FEET BELOW GRADE)	15.8	15.1
DATE SAMPLED	12/9/83	12/9/83
DATE STATIC WATER LEVEL MEASURED	12/9/83	12/9/83

APPENDIX C

GROUND-WATER QUALITY DATA
(1984 1st Quarter)

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-41	GW-42	GW-81	GW-82	GW-83	GW-79	GW-80	GW-77	GW-78	BG-11
ACROLEIN	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	N	N	N	N	N	N	N	N	N
TOLUENE	N	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	N	N	68	N	N	N	N	N	N	11
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHENE	N	N	<10	N	N	N	N	N	N	N
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	20	N	N	N	N	N	N	N

VOLATILE ORGAN
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	WELL NUMBER						
VOLATILE ORGANIC	GW-23	GW-71	GW-72	GW-69	GW-70	GW-68	GW-46
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	32	N	N	18	26	N
BROMOFORM	N	N	N	N	15	N	N
CARBON TETRACHLORIDE	N	N	N	N	17	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	<10	N	N	N	<10	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	21	N	N	N	94	41	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	440	N	N	240	430	11
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	33	N	N	46	110	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N
ETHYLBENZENE	N	11	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	990	<10	N	N	10	38	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	<10	N
TETRACHLOROETHENE	N	20000	N	N	55000	610	56
TOLUENE	N	N	N	N	33	<10	N
TRANS-1,2-DICHLOROETHENE	N	42	N	N	47	850	82
1,1,1-TRICHLOROETHANE	N	600	N	N	880	190	29
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHENE	N	3400	N	N	5100	270	17
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	25	17

VOLATILE ORGA! 3
PRIORITY POLLUT..TS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-54	GW-55	GW-56	GW-57	GW-60	GW-61	GW-58	GW-59
ACROLEIN	N	*	N	N	N	N	N	N
ACRYLONITRILE	N	*	N	N	N	N	N	N
BENZENE	N	*	N	N	N	N	N	N
BROMOFORM	N	*	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	*	N	N	N	N	N	N
CHLOROBENZENE	N	*	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	*	N	N	N	N	N	N
CHLOROETHANE	N	*	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	*	N	N	N	N	N	N
CHLOROFORM	N	*	N	N	N	N	N	<10
BROMODICHLOROMETHANE	N	*	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	*	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	*	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	*	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	*	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	*	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	*	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	*	N	N	N	N	N	N
ETHYLBENZENE	N	*	N	N	N	N	N	N
BROMOMETHANE	N	*	N	N	N	N	N	N
CHLOROMETHANE	N	*	N	N	N	N	N	N
METHYLENE CHLORIDE	N	*	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	*	N	N	N	N	N	N
TETRACHLOROETHENE	N	*	N	N	N	N	N	N
TOLUENE	N	*	N	N	N	N	N	<10
TRANS-1,2-DICHLOROETHENE	N	*	<10	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	*	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	*	N	N	N	N	N	N
TRICHLOROETHENE	N	*	N	N	N	N	N	N
FLUOROTRICHLOROMETHANE	N	*	N	N	N	N	N	N
VINYL CHLORIDE	N	*	N	N	N	N	N	N

..LATI... JRGA.. ~
PRIORITY POLLUT. .S
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-84	GW-85	GW-86	GW-66	GW-67	GW-64	GW-65	GW-62	GW-63
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	<10	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	<10	N	<10	<10	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	<10	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	<10	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	N	N	39	N	N	N	N	N
TOLUENE	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	N	N	N	N	N	<10	<10	N	N
1,1,1-TRICHLOROETHANE	N	N	N	<10	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
TRICHLOROETHENE	N	N	N	12	N	270	130	51	64
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N

VOLATILE ORGA S
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-43	GW-44	GW-76	GW-87	GW-75	GW-74	GW-11	GW-12	GW-73
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	35	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	100	<10	N	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	<10	11	N	N	<10	N
1,2-DICHLOROETHANE	N	N	N	44	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	N	<10	N	N	<10	15	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	N	N	770	290	N	13	93	N
TOLUENE	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	N	N	N	89	<10	N	30	80	<10
1,1,1-TRICHLOROETHANE	N	N	N	<10	32	N	<10	20	N
1,1,2-TRICHLOROETHANE	N	N	N	15	N	N	N	N	N
TRICHLOROETHENE	N	N	N	610	120	N	N	38	N
FLUOROTRICHLOROMETHANE	N	N	N	<10	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N

VOLATILE ORGAN
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	<10	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	1600	N	20	20	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	850	N	<10	14	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	85	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	N	N	N	28	240	58
TOLUENE	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	N	N	N	N	99	380	<10
1,1,1-TRICHLOROETHANE	N	N	820	N	<10	20	10
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHENE	N	N	N	N	<10	40	N
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	<10	N	N	<10	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-10	GW-11	GW-12	GW-13	GW-43	GW-44	Y-GMW20
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	<10
BROMODICHLOROMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	19	N	12	N	N	N	<10
1,2-DICHLOROETHANE	N	N	N	N	N	N	<10
1,1-DICHLOROETHENE	<10	<10	18	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	12	130	N	N	N	760
TOLUENE	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	20	34	100	N	N	N	310
1,1,1-TRICHLOROETHANE	<10	<10	25	N	N	N	11
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHENE	<10	N	55	N	N	N	120
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	<10

VOLATILE ORGANIC
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) UNLESS OTHERWISE STATED

VOLATILE ORGANIC	WELL NUMBER GW-14	GW-15 UNIT IS PPM	GW-47	GW-48	GW-49	GW-50	GW-51
ACROLEIN	N	N	N	N	N	*	N
ACRYLONITRILE	N	N	N	N	N	*	N
BENZENE	19	140	N	N	N	*	N
BROMOFORM	N	N	N	N	N	*	N
CARBON TETRACHLORIDE	N	N	N	N	N	*	N
CHLOROBENZENE	N	N	N	N	N	*	N
CHLORODIBROMOMETHANE	N	N	N	N	N	*	N
CHLOROETHANE	64	N	N	N	N	*	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	*	N
CHLOROFORM	N	2.0	N	N	N	*	N
BROMODICHLOROMETHANE	N	N	N	N	N	*	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	*	N
1,1-DICHLOROETHANE	910	6.0	N	N	N	*	N
1,2-DICHLOROETHANE	<10	N	N	N	N	*	N
1,1-DICHLOROETHENE	120	6.2	N	N	N	*	N
1,2-DICHLOROPROPANE	N	N	N	N	N	*	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	*	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	*	N
ETHYLBENZENE	N	N	N	N	N	*	N
BROMOMETHANE	N	N	N	N	N	*	N
CHLOROMETHANE	N	N	N	N	N	*	N
METHYLENE CHLORIDE	N	1.1	N	N	N	*	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	*	N
TETRACHLOROETHENE	150	17	N	N	N	*	N
TOLUENE	N	<1.0	N	N	N	*	N
TRANS-1,2-DICHLOROETHENE	9100	100	N	N	N	*	N
1,1,1-TRICHLOROETHANE	N	94	N	N	N	*	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	*	N
TRICHLOROETHENE	990	2.2	N	N	N	*	N
FLUOROTRICHLOROMETHANE	N	3.6	N	N	N	*	N
VINYL CHLORIDE	910	3.0	N	N	N	*	N

VOLATILE ORGANIC
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-21	GW-20	BG-18	BG-19	BG-20	GW-53	GW-45	GW-52
ACROLEIN	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N
BENZENE	N	120	170	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N
CHLOROETHANE	770	120	40	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N
CHLOROFORM	N	200	250	N	N	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	1400	3200	2000	N	N	<10	N	N
1,2-DICHLOROETHANE	N	150	210	N	N	N	N	N
1,1-DICHLOROETHENE	N	2200	840	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	21	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	<10	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	7600	340	N	N	N	N	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	140000	3700	N	N	N	N	N
TOLUENE	N	220	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	N	37000	26000	17	N	10	N	N
1,1,1-TRICHLOROETHANE	N	7300	1700	N	<10	N	N	N
1,1,2-TRICHLOROETHANE	N	180	54	N	N	N	N	N
TRICHLOROETHENE	N	26000	1700	N	N	N	N	N
FLUOROTRICHLOROMETHANE	N	270	94	N	N	N	N	N
VINYL CHLORIDE	N	2100	1600	N	N	<10	N	N

VOLATILE ORGANIC
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	WELL NUMBER									
OLATILE EGANIC	GW-23	GW-24	GW-26	GW-27	GW-28	GW-29	GW-39	GW-40	GW-41	GW-42
CROLEIN	N	N	N	N	N	N	N	N	N	N
CRYLONITRILE	N	N	N	N	N	N	N	N	N	N
ENZENE	N	13	N	160	N	580	31	N	N	N
ROMOFORM	N	N	N	N	N	N	N	N	N	N
ARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N
HLOROBENZENE	N	N	N	N	N	N	N	N	N	N
HLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N
HLOROETHANE	N	440	28	N	N	49	920	N	N	N
-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N	N
HLOROFORM	24	13	N	<10	N	240	23	N	N	N
ROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N	N
ICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N
,1-DICHLOROETHANE	N	11000	380	2600	N	5300	24000	N	N	N
,2-DICHLOROETHANE	N	98	N	57	N	N	570	N	N	N
,1-DICHLOROETHENE	N	4500	34	1300	N	4000	16000	N	N	N
,2-DICHLOROPROPANE	N	N	N	N	N	N	<10	N	N	N
IS-1,3-DICHLOROPROPENE	N	27	N	N	N	N	N	N	N	N
RANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N	N
THYLBENZENE	N	N	N	N	N	N	N	N	N	N
ROMOMETHANE	N	N	N	N	N	N	N	N	N	N
HLOROMETHANE	N	N	N	N	N	N	N	N	N	N
ETHYLENE CHLORIDE	670	2000	N	26	N	1900	250	N	N	N
,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N
ETRACHLOROETHENE	N	310	<10	28000	N	32000	92	N	N	N
CLUENE	N	N	N	67	N	51	430	N	N	N
RANS-1,2-DICHLOROETHENE	N	2700	170	38000	N	120000	9200	N	N	N
,1,1-TRICHLOROETHANE	N	19000	29	2700	N	23000	100000	N	N	N
,1,2-TRICHLOROETHANE	N	100	N	120	N	N	770	N	N	N
RICHLOROETHENE	N	140	<10	13000	N	39000	250	N	N	N
LUOROTRICHLOROMETHANE	N	N	<10	N	N	2400	10	N	N	N
INYL CHLORIDE	N	530	34	3000	N	1400	690	N	N	N

VOLATILE ORGANIC
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER GW-30	GW-31	GW-33	GW-34	GW-35	GW-36	GW-37	GW-38	BG-17
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	12	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	170	N	<10	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	N	N	N	18	N	N	<10
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	N	N	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	18
TETRACHLOROETHENE	N	N	N	97	N	N	N	690	1700
TOLUENE	N	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHENE	N	N	N	15	N	130	N	1500	190
1,1,1-TRICHLOROETHANE	N	N	N	<10	N	33	N	<10	19
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
TRICHLOROETHENE	N	N	N	32	N	N	N	360	56
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	28	N	N	N

VOLATILE ORGANI
PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	WELL NUMBER BG-10	BG-15	BG-13	BG-12
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	N	N	N	N
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N
CHLOROFORM	N	N	<10	N
BROMODICHLOROMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	N	190	N
1,2-DICHLOROETHANE	N	N	N	N
1,1-DICHLOROETHENE	N	N	110	N
1,2-DICHLOROPROPANE	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N
ETHYLBENZENE	N	N	N	N
BROMOMETHANE	N	N	N	N
CHLOROMETHANE	N	N	N	N
METHYLENE CHLORIDE	N	N	10	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHENE	N	12	5400	10
TOLUENE	N	N	28	N
TRANS-1,2-DICHLOROETHENE	<10	13	450	11
1,1,1-TRICHLOROETHANE	N	N	5600	N
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHENE	N	N	75	N
FLUOROTRICHLOROMETHANE	N	N	N	N
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGAN.
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER						
VOLATILE ORGANIC	GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8
METHYL ETHYL KETONE	N	N	N	N	N	N	N
ETHANOL	F	F	F	F	F	F	F
DICHLOROFLUOROMETHANE	F	F	F	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F
1,1,2-TRICHLOBO-1,2,2-TRIFLUORO-ETHANE	F	F	F	F	F	F	F

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

VOLATILE ORGANIC	WELL NUMBER						
	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44	Y-GMW20
METHYL ETHYL KETONE	N	N	N	N	N	N	N
ETHANOL	F	F	F	F	F	F	F
DICHLOROFLUOROMETHANE	F	F	F	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F
1,1,2-TRICHLORO-1,2,2-TRIFLUORO-ETHANE	F	F	F	F	F	F	370

VOLATILE ORGANIC
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) UNLESS OTHERWISE STATED
ALL CONCENTRATIONS ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

VOLATILE ORGANIC	WELL NUMBER GW-14	GW-15	GW-47	GW-48	GW-49	GW-50	GW-51
METHYL ETHYL KETONE	N	4.8 (PPM)	N	N	N	*	N
ETHANOL	F	F	F	F	F	*	F
DICHLOROFLUOROMETHANE	F	F	F	F	F	*	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	*	F
1,1,2-TRICHLORO-1,2,2-TRIFLUORO-ETHANE	F	160000	F	F	F	*	F

VOLATILE ORGANIC
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER							
VOLATILE ORGANIC	GW-21	GW-20	BG-18	BG-19	BG-20	GW-53	GW-45	GW-52
METHYL ETHYL KETONE	N	41	<10	N	N	N	N	N
ETHANOL	F	F	F	F	F	F	F	F
DICHLOROFLUOROMETHANE	F	F	F	F	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F
1,1,2-TRICHLORO-1,2,2-TRIFLUORO-ETHANE	F	F	F	F	F	F	F	F

VOLATILE ORGA[illegible]S
NON-PRIORITY POLL[illegible]ANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER									
[illegible]ILE [illegible]IC	GW-23	GW-24	GW-26	GW-27	GW-28	GW-29	GW-39	GW-40	GW-41	GW-42
[illegible]L ETHYL KETONE	N	<10	N	10	N	N	130	N	N	N
[illegible]OL	F	F	F	F	F	F	F	F	F	F
[illegible]OBOFLUOROMETHANE	F	F	F	F	F	540	F	F	F	F
[illegible]ICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F	F	F
[illegible]-TRICHLORO-1,2,2-TRIFLUORO-ETHANE	F	F	F	F	F	14000	520	F	F	F

VOLATILE ORGAN.
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER								
LATILE GANIC	GW-30	GW-31	GW-33	GW-34	GW-35	GW-36	GW-37	GW-38	BG-17
THYL ETHYL KETONE	N	N	N	N	N	N	N	N	N
ANOL	F	F	F	F	F	F	F	F	F
CHLOROFLUOROMETHANE	F	F	F	F	F	F	F	F	F
2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F	F
1,2-TRICHLORO-1,2,2-TRIFLUORO-ETHANE	F	F	F	F	F	F	F	500	F

VOLATILE ORGAN
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER			
VOLATILE ORGANIC	BG-10	BG-15	BG-13	BG-12
METHYL ETHYL KETONE	N	N	N	N
ETHANOL	F	F	91	F
DICHLOROFLUOROMETHANE	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	1000	F
1,1,2-TRICHLORO-1,2,2-TRIFLUORO-ETHANE	F	F	66000	F

VOLATILE ORGAN.
NON-PRIORITY POLLU..ANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER									
LE C	GW-41	GW-42	GW-81	GW-82	GW-83	GW-79	GW-80	GW-77	GW-78	BG-11
ETHYL KETONE	N	N	N	N	N	N	N	N	N	N
TRICHLORO-1,2,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F	F	F
E	F	F	F	F	F	F	F	F	F	F
CHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F	F	F
YDROFURAN	F	F	F	F	F	F	F	F	F	F

VOLATILE ORGAN.
NON-PRIORITY POLLU..NTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

VOLATILE ORGANIC	WELL NUMBER GW-23	GW-71	GW-72	GW-69	GW-70	GW-68	GW-46
METHYL ETHYL KETONE	N	320	23	N	<10	N	N
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	F	F	F	F	480	55	F
ACETONE	F	F	F	F	F	89	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F
TETRAHYDROFURAN	F	F	F	F	F	F	F

VOLATILE ORGAN
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER							
VOLATILE ORGANIC	GW-54	GW-55	GW-56	GW-57	GW-60	GW-61	GW-58	GW-59
METHYL ETHYL KETONE	N	*	N	N	N	N	N	N
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	F	*	F	F	F	F	F	F
ACETONE	F	*	F	F	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	*	F	F	F	F	F	F
TETRAHYDROFURAN	F	*	F	F	F	F	F	F

VOLATILE ORGANI
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER								
OLATILE EGANIC	GW-84	GW-85	GW-86	GW-66	GW-67	GW-64	GW-65	GW-62	GW-63
ETHYL ETHYL KETONE	N	N	N	N	N	N	N	N	N
,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	F	F	F	80	F	F	F	F	F
CETONE	F	F	F	F	F	F	F	F	F
,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	41	F	F	F	F	F
ETRAHYDROFURAN	F	F	F	F	F	F	F	F	F

VOLATILE ORGAN
NON-PRIORITY POLLUTANTS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - ALL CONCENTRATIONS ARE ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	WELL NUMBER								
OLATILE RGANIC	GW-43	GW-44	GW-76	GW-87	GW-75	GW-74	GW-11	GW-12	GW-73
ETHYL ETHYL KETONE	N	N	<10	N	<10	N	N	N	N
,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	F	F	F	4400	F	F	F	F	F
CETONE	F	F	F	F	F	F	F	F	F
,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	97	F	F	F	F	F
ETRAHYDROFURAN	F	F	F	30	F	F	F	F	F

METALS (DETERMINED BY IC; \A ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER						
METAL	GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8
ALUMINUM	5.8	0.05	5.2	33	0.44	5.3	4.2
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
BARIUM	0.097	0.35	0.33	0.91	0.17	0.12	0.097
BERYLLIUM	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001
BORON	0.05	0.02	0.15	0.59	0.12	<*0.01	0.04
CADMIUM	<*0.01	<*0.01	<*0.002	0.023	<*0.01	<*0.002	<*0.01
CALCIUM	13	54	68	106	70	17	22
CHROMIUM	0.12	<*0.02	0.36	0.20	<*0.02	0.08	0.11
COBALT	<*0.01	<*0.01	0.012	0.046	<*0.01	0.013	<*0.01
COPPER	<*0.01	<*0.01	<*0.01	0.28	<*0.01	<*0.01	<*0.01
IRON	10	0.11	8.9	68	0.79	12	8.5
LEAD	0.15	<*0.05	<*0.05	0.27	<*0.05	<*0.05	0.06
LITHIUM	0.16	<*0.03	0.05	0.47	0.13	<*0.03	0.21
MAGNESIUM	3.3	6.6	8.3	30	5.6	3.1	8.7
MANGANESE	0.37	0.038	0.43	4.3	0.062	0.93	0.30
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	0.071	<*0.02	0.21	0.18	<*0.02	0.052	0.06
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	13	9.4	11	18	8.9	8.8	9.8
SILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
SODIUM	2.5	5.1	11	13	5.8	5	0.94
STRONTIUM	0.025	0.13	0.19	0.59	0.21	0.04	0.03
THALLIUM	0.41	0.59	<*0.3	0.25	0.62	<*0.3	0.47
TIN	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
TITANIUM	0.066	0.003	0.03	0.13	0.011	0.04	0.09
VANADIUM	0.02	0.01	<*0.01	0.07	0.02	<*0.01	0.01
ZINC	0.05	0.02	0.03	0.63	0.01	0.04	0.02
URANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	0.005	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICA A ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER						
METAL	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44	Y-GMW20
ALUMINUM	22	0.91	4.9	5.7	36	6.9	45
ANTIMONY	0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
BARIUM	0.46	0.15	0.098	0.56	0.40	0.42	0.48
BERYLLIUM	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	0.004
BORON	0.10	0.06	0.05	0.06	0.04	0.08	0.04
CADMIUM	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	0.01
CALCIUM	89	41	24	107	23	65	150
CHROMIUM	0.34	<*0.02	0.05	0.03	0.20	0.13	0.11
COBALT	0.05	<*0.01	<*0.01	<*0.01	0.04	<*0.01	0.03
COPPER	<*0.01	<*0.01	<*0.01	<*0.01	0.04	0.01	0.11
IRON	54	0.65	10	8.7	60	16	110
LEAD	0.25	0.15	0.17	0.1	0.16	0.18	0.06
LITHIUM	0.22	0.23	<*0.03	0.17	0.17	0.14	0.22
MAGNESIUM	14	5.9	3.5	18	20	7.4	16
MANGANESE	4.7	0.027	0.42	0.97	2.9	2.0	4.3
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	0.12	<*0.02	0.04	0.03	0.17	0.18	0.10
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	24	7.2	15	13	24	22	28
SILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
SODIUM	4.7	20	3.9	7.0	6.3	4.7	29
STRONTIUM	0.20	0.29	0.049	0.23	0.063	0.10	0.212
THALLIUM	0.36	0.25	0.52	0.45	0.30	0.49	0.84
TIN	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
TITANIUM	0.25	0.016	0.11	0.05	0.27	0.17	0.065
VANADIUM	0.05	0.02	0.03	0.03	0.07	0.03	0.05
ZINC	0.12	0.03	0.04	0.02	0.26	0.46	0.44
URANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	0.092

METALS (DETERMINED BY ICAP ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER						
METAL	GW-14	GW-15	GW-47	GW-48	GW-49	GW-50	GW-51
ALUMINUM	38	17	55	15	1.3	*	26
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	*	<*0.05
ARSENIC	<*0.2	<*0.2	0.23	<*0.2	<*0.2	*	<*0.2
BARIUM	1.9	0.96	0.72	0.22	0.066	*	0.22
BERYLLIUM	0.008	0.004	0.009	0.007	0.005	*	0.008
BORON	3.4	0.69	0.03	0.02	0.03	*	<*0.01
CADMIUM	0.004	0.002	0.006	<*0.002	<*0.002	*	0.004
CALCIUM	180	280	18	38	79	*	17
CHROMIUM	0.13	0.05	0.18	0.06	0.04	*	0.08
COBALT	0.05	0.030	0.060	0.01	<*0.01	*	0.03
COPPER	0.04	0.013	0.041	0.02	<*0.01	*	0.06
IRON	69	45	78	31	2.9	*	66
LEAD	<*0.05	<*0.05	0.07	<*0.05	<*0.05	*	0.09
LITHIUM	0.18	1.9	0.07	0.11	0.05	*	0.10
MAGNESIUM	39	26	16	7.7	3.1	*	3.9
MANGANESE	5.4	20	2.8	1.1	0.11	*	1.8
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	*	<*0.02
NICKEL	0.13	0.06	0.15	0.06	0.02	*	0.10
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	*	<*0.2
SILICON	27	15	42	9.6	5.0	*	11
SILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	*	<*0.01
SODIUM	10	18	4.1	7.2	2.5	*	30
STRONTIUM	0.66	0.60	0.067	0.098	0.13	*	0.071
THALLIUM	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	*	<*0.3
TIN	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	*	<*0.2
TITANIUM	0.193	0.117	0.37	0.042	0.026	*	0.062
VANADIUM	0.05	0.01	0.06	0.016	<*0.01	*	0.05
ZINC	0.15	0.31	0.18	0.09	<*0.01	*	0.09
URANIUM	<*2	<*2	<*2	<*2	<*2	*	<*2
MERCURY	0.001	<*0.001	<*0.001	<*0.001	<*0.001	*	<*0.001

METALS (DETERMINED BY ICAP ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER							
METAL	GW-21	GW-20	BG-18	BG-19	BG-20	GW-53	GW-45	GW-52
ALUMINUM	1.0	1.1	0.11	0.80	3.4	3.8	1.7	3.8
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
BARIUM	0.71	0.71	0.45	0.11	0.13	0.24	0.07	0.13
BERYLLIUM	<*0.001	<*0.001	<*0.001	<*0.001	0.005	0.004	0.007	0.007
BORON	0.04	0.03	0.05	0.82	0.05	0.09	<*0.01	0.03
CADMIUM	<*0.01	<*0.01	<*0.01	<*0.002	<*0.002	<*0.002	<*0.002	<*0.002
CALCIUM	120	220	130	17	89	120	41	87
CHROMIUM	<*0.02	0.04	<*0.02	<*0.02	<*0.02	0.10	0.03	0.08
COBALT	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
COPPER	<*0.01	<*0.01	0.01	<*0.01	<*0.01	<*0.01	<*0.01	0.01
IRON	2.2	1.6	6.8	19	16	9.9	3.5	8.7
LEAD	0.11	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	0.09
LITHIUM	0.23	0.51	1.3	0.19	0.04	0.24	0.07	0.06
MAGNESIUM	21	21	18	2.7	14	14	2.9	13
MANGANESE	1.8	13	0.19	0.17	0.30	0.21	0.10	0.23
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	0.02	0.06	0.04	<*0.02	<*0.02	0.07	0.02	0.05
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	10	8.1	8.7	5.6	4.6	7.2	5.2	4.4
SILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
SODIUM	7.6	28	49	110	10	4.6	1.1	10
STRONTIUM	0.42	0.61	0.62	0.17	0.19	0.43	0.064	0.17
THALLIUM	0.36	<*0.3	0.79	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3
TIN	<*0.2	<*0.2	<*0.2	0.44	<*0.2	<*0.2	<*0.2	<*0.2
TITANIUM	0.026	<*0.003	0.006	0.026	0.021	0.052	0.031	0.043
VANADIUM	0.02	0.05	0.03	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
ZINC	0.01	0.01	<*0.01	<*0.01	<*0.01	0.02	<*0.01	0.03
URANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001	0.002	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICA A ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER									
ETAL	GW-23	GW-24	GW-26	GW-27	GW-28	GW-29	GW-39	GW-40	GW-41	GW-42
LUMINUM	<*0.05	3.3	6.1	0.05	4.0	2.4	11	85	6.0	11
NTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	0.07	<*0.05	<*0.05
RSENIC	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
ARIUM	17	0.90	0.42	1.3	0.096	0.39	0.48	1.2	0.15	0.28
ERYLLIUM	<*0.001	<*0.001	<*0.001	0.005	<*0.001	<*0.001	0.006	0.002	<*0.001	<*0.001
ORON	<*0.01	0.49	0.50	37	0.19	14	0.01	0.10	<*0.01	0.03
ADMIUM	<*0.002	<*0.01	<*0.01	<*0.01	<*0.01	<*0.002	<*0.002	0.01	<*0.01	<*0.01
ALCIUM	2400	290	19	170	51	300	270	13	4.9	4.2
HROMIUM	0.04	0.04	0.09	0.03	0.04	0.03	0.18	0.33	0.06	0.12
OBALT	0.07	<*0.01	0.02	0.11	<*0.01	0.28	0.03	0.09	<*0.01	<*0.01
OPPER	<*0.01	<*0.01	<*0.01	0.02	<*0.01	0.02	0.02	0.08	<*0.01	<*0.01
RON	4.2	2.7	11	1.6	5.9	3.5	17	180	12	24
EAD	<*0.05	0.16	0.21	0.09	0.19	<*0.05	<*0.05	0.56	0.17	0.16
ITHIUM	0.21	0.17	0.20	1.5	0.13	0.15	0.04	0.29	0.25	0.22
AGNESIUM	190	35	12	33	8.4	85	44	37	5.8	8.0
ANGANESE	3.9	3.4	1.2	23	0.27	11	5.7	4.6	0.51	0.44
OLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
ICKEL	0.04	0.06	0.08	0.56	0.04	1.2	0.16	0.27	0.06	0.08
ELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
ILICON	8.3	17	10	12	8.7	8.3	16	66	9.3	20
ILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
ODIUM	60	37	13	69	3.9	34	22	11	5.1	2.7
TRONTIUM	4.0	0.64	0.080	0.36	0.079	0.47	0.53	0.046	0.019	0.022
HALLIUM	<*0.3	<*0.3	0.41	0.3	<*0.3	<*0.3	0.4	<*0.3	<*0.3	<*0.3
IN	0.40	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
ITANIUM	0.010	0.027	0.13	0.007	0.074	0.049	0.19	0.89	0.063	0.25
ANADIUM	<*0.01	0.03	0.03	0.01	0.05	<*0.01	<*0.01	0.18	<*0.01	0.05
INC	0.04	0.07	0.04	0.04	0.02	<*0.01	0.06	0.30	0.07	0.06
RANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
ERCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICAP ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER								
METAL	GW-30	GW-31	GW-33	GW-34	GW-35	GW-36	GW-37	GW-38	BG-17
ALUMINUM	12	6.9	12	93	4.6	3.6	0.56	82	2.1
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	<*0.2	<*0.2	<*0.2	0.4	<*0.2	<*0.2	<*0.2	0.3	<*0.2
BARIUM	0.45	0.19	0.18	3.0	0.094	0.17	0.098	1.7	0.18
BERYLLIUM	<*0.001	<*0.001	0.002	0.013	<*0.001	0.006	<*0.001	0.008	<*0.001
BORON	<*0.01	<*0.01	0.07	0.15	0.02	2.2	<*0.01	0.06	19
CADMIUM	0.003	<*0.002	<*0.002	0.015	<*0.01	<*0.002	<*0.002	0.008	<*0.01
CALCIUM	94	75	48	58	30	78	49	73	120
CHROMIUM	0.11	0.04	0.06	0.34	0.07	0.06	0.10	0.22	<*0.02
COBALT	0.01	<*0.01	0.01	0.12	<*0.01	<*0.01	<*0.01	0.08	<*0.01
COPPER	0.04	0.01	<*0.01	0.15	<*0.01	<*0.01	<*0.01	0.10	<*0.01
IRON	15	4.7	17	220	9.5	6.9	1.9	140	15
LEAD	<*0.05	<*0.05	<*0.05	0.61	0.11	<*0.05	<*0.05	0.15	0.07
LITHIUM	0.12	0.13	0.09	0.18	0.27	0.11	0.06	0.15	0.32
MAGNESIUM	5.2	10	18	30	18	13	14	42	21
MANGANESE	0.38	0.16	0.25	26	1.1	0.38	1.0	6.6	0.42
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	0.10	0.05	0.05	0.42	0.05	0.05	0.08	0.22	0.02
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	18	18	14	2.7	14	0.12	12	6.8	12
SILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
SODIUM	5.6	10	11	14	9.7	8.9	11	19	18
STRONTIUM	0.13	0.15	0.09	0.23	0.19	0.11	0.16	0.19	0.21
THALLIUM	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	0.63
TIN	0.51	0.30	<*0.2	<*0.2	<*0.2	<*0.2	0.52	0.21	<*0.2
TITANIUM	0.25	0.041	0.093	0.20	0.057	0.083	0.009	0.12	0.038
VANADIUM	0.03	<*0.01	0.02	0.13	0.04	<*0.01	<*0.01	0.10	0.02
ZINC	0.06	0.04	0.02	0.51	0.03	<*0.01	0.03	0.28	0.17
URANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

METAL	WELL NUMBER BG-10	BG-15	BG-13	BG-12
ALUMINUM	0.50	19	1.7	4.5
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	<*0.2	<*0.2	<*0.2	<*0.2
BARIUM	0.30	0.31	0.20	0.15
BERYLLIUM	<*0.001	<*0.001	<*0.001	<*0.001
BORON	<*0.01	0.25	1.8	0.01
CADMIUM	<*0.01	<*0.01	<*0.01	<*0.01
CALCIUM	45	20	8.0	2.9
CHROMIUM	<*0.02	0.03	<*0.02	<*0.02
COBALT	<*0.01	0.01	0.14	<*0.01
COPPER	<*0.01	0.02	<*0.01	<*0.01
IRON	1.4	24	51	10
LEAD	<*0.05	<*0.05	0.06	0.08
LITHIUM	0.25	0.19	0.20	0.22
MAGNESIUM	7.4	5.9	7.8	7.8
MANGANESE	0.38	0.33	17	0.42
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	<*0.02	<*0.02	<*0.02	<*0.02
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	11	17	3.8	5.8
SILVER	<*0.01	<*0.01	<*0.01	<*0.01
SODIUM	6.8	3.2	14	4.7
STRONTIUM	0.53	0.052	0.049	0.013
THALLIUM	0.95	0.72	0.80	0.75
TIN	<*0.2	<*0.2	<*0.2	<*0.2
TITANIUM	0.014	0.090	0.029	0.046
VANADIUM	<*0.01	0.03	<*0.01	<*0.01
ZINC	0.02	0.09	0.05	0.04
URANIUM	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICAP \ ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER									
TAL	GW-41	GW-42	GW-81	GW-82	GW-83	GW-79	GW-80	GW-77	GW-78	BG-11
UMINUM	3.9	6.6	35	13	1.7	12	35	1.5	11	3.8
TIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	0.13
SENIC	<*0.2	<*0.2	<*0.2	0.2	0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
RIUM	0.12	0.24	1.0	0.53	0.12	0.47	0.58	0.25	0.34	0.20
RYLLIUM	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001
RON	<*0.01	<*0.01	<*0.01	<*0.01	0.09	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
DMIUM	0.003	0.003	0.007	0.003	<*0.002	0.002	0.004	0.003	0.004	<*0.002
LCIUM	4.6	4.1	44	73	41	44	6.2	43	59	58
ROMIUM	0.07	0.09	0.12	0.16	0.11	0.07	0.11	0.04	0.04	0.40
BALT	0.02	0.02	0.04	0.02	<*0.01	0.02	0.05	<*0.01	0.03	<*0.01
PPER	<*0.01	0.02	0.05	<*0.01	0.06	<*0.01	0.03	<*0.01	<*0.01	0.03
RN	8.9	15	96	20	2.1	21	68	2.3	19	7.2
AD	0.41	0.16	0.47	0.18	<*0.05	0.30	0.58	0.39	0.37	<*0.05
THIUM	<*0.03	0.06	<*0.03	<*0.03	<*0.03	<*0.03	<*0.03	<*0.03	<*0.03	0.06
GNESIUM	5.1	7.0	26	12	3.5	11	14	8.7	12	7.4
NGANESE	0.43	0.39	5.4	0.59	0.069	0.42	0.37	0.084	0.40	0.35
LYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	0.03	<*0.02	<*0.02
CKEL	0.06	0.05	0.09	0.09	0.06	0.03	0.09	<*0.02	0.02	0.26
LENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
LICON	10	10	35	11	10	8.9	25	4.2	11	15
LVER	<*0.01	<*0.01	0.04	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
DIUM	4.9	2.8	11	5.3	7.0	4.5	3.7	10	5.7	7.6
RONTIUM	0.018	0.019	0.28	0.13	0.11	0.17	0.081	0.48	0.13	0.31
ALLIUM	<*0.3	<*0.3	<*0.3	<*0.3	0.6	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3
N	0.3	<*0.2	7.1	<*0.2	<*0.2	3.5	5.6	0.3	<*0.2	<*0.2
TANIUM	0.035	0.064	0.28	0.039	0.012	0.083	0.22	<*0.003	0.070	0.045
NADIUM	<*0.01	<*0.01	0.02	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
NC	0.05	0.04	0.13	0.06	0.03	0.04	0.16	0.01	0.03	0.05
ANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
RCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICAP ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER						
METAL	GW-23	GW-71	GW-72	GW-69	GW-70	GW-68	GW-46
ALUMINUM	12	1.3	8.2	2.2	200	0.25	46
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	4.4	<*0.05	<*0.05
ARSENIC	<*0.2	<*0.2	<*0.2	<*0.2	0.7	0.3	<*0.2
BARIUM	23	4.2	0.23	0.29	4.3	0.57	0.56
BERYLLIUM	<*0.001	<*0.001	0.003	<*0.001	0.031	<*0.001	0.005
BORON	0.04	0.11	0.01	0.15	0.13	0.14	0.04
CADMIUM	0.004	<*0.002	0.002	0.002	0.028	<*0.002	0.009
CALCIUM	2900	450	27	20	440	50	18
CHROMIUM	0.12	0.33	0.11	0.13	0.56	0.16	0.32
COBALT	0.10	<*0.01	0.01	<*0.01	0.20	0.01	0.05
COPPER	0.04	0.06	0.06	0.03	0.24	0.05	0.06
IRON	4.3	2.5	16	5.0	400	1.0	79
LEAD	<*0.05	<*0.05	<*0.05	<*0.05	0.79	<*0.05	0.23
LITHIUM	0.11	0.61	0.62	0.10	0.66	<*0.03	0.20
MAGNESIUM	230	0.82	3.4	5.0	84	14	18
MANGANESE	4.3	0.062	0.58	0.36	12	0.058	3.3
MOLYBDENUM	0.07	0.05	<*0.02	0.03	0.03	<*0.02	<*0.02
NICKEL	0.11	0.16	0.07	0.08	0.61	0.16	0.22
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	1.9	2.5	1.0	7.7	42	8.5	16
SILVER	<*0.01	<*0.01	<*0.01	0.09	<*0.01	<*0.01	<*0.01
SODIUM	74	570	170	60	130	35	3.0
STRONTIUM	7.2	11	0.51	0.71	2.3	1.4	0.057
THALLIUM	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	0.8	<*0.3
TIN	8.2	<*0.2	<*0.2	<*0.2	0.3	<*0.2	6.1
TITANIUM	0.066	<*0.003	0.061	0.053	0.70	<*0.003	0.29
VANADIUM	<*0.01	<*0.01	<*0.01	0.02	0.18	<*0.01	<*0.01
ZINC	0.03	0.02	0.03	<*0.01	0.73	0.02	0.12
URANIUM	*	*	<*2	<*2	*	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICAP, ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER							
METAL	GW-54	GW-55	GW-56	GW-57	GW-60	GW-61	GW-58	GW-59
ALUMINUM	110	*	4.7	23	0.23	34	*	3.4
ANTIMONY	0.10	*	<*0.05	<*0.05	<*0.05	<*0.05	*	<*0.05
ARSENIC	0.4	*	<*0.2	<*0.2	<*0.2	<*0.2	*	<*0.2
BARIUM	1.0	*	0.13	0.16	0.061	0.43	*	0.035
BERYLLIUM	0.015	*	<*0.001	0.001	<*0.001	0.004	*	<*0.001
BORON	0.26	*	0.03	0.01	0.02	0.04	*	<*0.01
CADMIUM	0.012	*	<*0.002	0.004	<*0.002	0.004	*	<*0.002
CALCIUM	230	*	57	160	75	180	*	49
CHROMIUM	0.67	*	0.09	0.08	0.05	0.11	*	0.36
COBALT	0.13	*	0.02	0.04	0.01	0.05	*	<*0.01
COPPER	0.13	*	<*0.01	0.11	<*0.01	0.06	*	0.01
IRON	260	*	11	23	0.80	62	*	6.0
LEAD	0.76	*	0.06	0.26	0.07	0.31	*	0.09
LITHIUM	0.34	*	0.12	0.06	0.22	0.13	*	0.12
MAGNESIUM	62	*	19	56	10	26	*	4.8
MANGANESE	7.8	*	0.47	0.56	0.065	5.1	*	0.13
MOLYBDENUM	<*0.02	*	<*0.02	<*0.02	<*0.02	<*0.02	*	<*0.02
NICKEL	0.54	*	0.09	0.13	0.03	0.13	*	0.19
SELENIUM	<*0.2	*	<*0.2	<*0.2	<*0.2	<*0.2	*	<*0.2
SILICON	50	*	11	24	3.6	25	*	13
SILVER	<*0.01	*	0.02	<*0.01	<*0.01	<*0.01	*	<*0.01
SODIUM	26	*	29	49	5.1	5.5	*	59
STRONTIUM	0.69	*	0.29	0.24	0.12	0.24	*	0.22
THALLIUM	<*0.3	*	<*0.3	<*0.3	<*0.3	<*0.3	*	<*0.3
TIN	<*0.2	*	<*0.2	<*0.2	<*0.2	<*0.2	*	<*0.2
TITANIUM	0.15	*	0.022	0.070	0.003	0.042	*	0.005
VANADIUM	0.19	*	<*0.01	<*0.01	<*0.01	0.02	*	<*0.01
ZINC	0.81	*	0.09	1.2	0.03	0.18	*	0.06
URANIUM	<*2	*	<*2	<*2	<*2	<*2	*	<*2
MERCURY	<*0.001	*	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICA A ANALYSIS) 12:25 SUNDA., APRIL 29
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER								
METAL	GW-84	GW-85	GW-86	GW-66	GW-67	GW-64	GW-65	GW-62	GW-63
ALUMINUM	41	0.26	33	0.07	1.2	29	10	5.5	11
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	0.3	0.3	0.3	<*0.2	<*0.2	0.2	<*0.2	<*0.2	<*0.2
BARIUM	0.86	0.45	0.51	0.093	0.080	0.33	0.077	0.24	0.22
BERYLLIUM	<*0.001	<*0.001	0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001
BORON	0.03	0.03	0.05	0.04	<*0.01	0.02	0.01	<*0.01	0.01
CADMIUM	0.004	<*0.002	0.003	<*0.002	<*0.002	0.004	<*0.002	<*0.002	<*0.002
CALCIUM	180	150	72	120	180	130	83	69	180
CHROMIUM	0.16	0.05	0.15	0.09	0.06	0.14	0.16	0.11	0.12
COBALT	0.04	<*0.01	0.03	<*0.01	<*0.01	0.04	0.03	0.03	0.02
COPPER	0.02	<*0.01	<*0.01	<*0.01	0.01	0.03	0.03	<*0.01	0.01
IRON	65	0.70	42	0.69	4.8	59	24	11	17
LEAD	0.09	<*0.05	0.15	<*0.05	<*0.05	0.22	0.27	<*0.05	<*0.05
LITHIUM	<*0.03	<*0.03	<*0.03	0.11	0.16	0.22	0.14	0.24	0.20
MAGNESIUM	25	12	14	19	18	23	19	38	74
MANGANESE	2.4	0.031	1.8	0.026	0.40	3.4	1.3	1.1	0.96
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	0.14	0.04	0.17	0.05	0.09	0.12	0.11	0.10	0.08
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	28	7.6	41	4.4	4.1	18	9.0	8.9	13
SILVER	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
SODIUM	6.0	9.3	8.4	9.8	11	2.9	15	4.5	11
STRONTIUM	0.24	0.36	0.14	0.21	0.26	0.14	0.31	0.11	0.17
THALLIUM	<*0.3	0.5	0.5	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3
TIN	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
TITANIUM	0.44	0.006	0.25	<*0.003	0.010	0.062	0.11	0.072	0.10
VANADIUM	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	0.02	<*0.01	<*0.01	<*0.01
ZINC	0.17	0.04	0.12	0.03	0.03	0.21	0.10	0.11	0.14
URANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

METALS (DETERMINED BY ICA A ANALYSIS)
AND MERCURY
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	WELL NUMBER								
METAL	GW-43	GW-44	GW-76	GW-87	GW-75	GW-74	GW-11	GW-12	GW-73
ALUMINUM	81	1.8	0.72	6.7	0.79	0.28	0.14	14	0.07
ANTIMONY	<*0.05	<*0.05	<*0.05	<*0.05	0.07	<*0.05	<*0.05	<*0.05	<*0.05
ARSENIC	0.4	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	0.2
BARIUM	0.68	0.27	0.25	0.14	0.21	0.019	0.16	0.21	0.38
BERYLLIUM	0.002	<*0.001	<*0.001	<*0.001	0.004	0.004	<*0.001	0.003	<*0.001
BORON	0.08	0.03	0.08	0.14	0.14	0.23	<*0.01	<*0.01	0.06
CADMIUM	0.007	<*0.002	<*0.002	0.003	<*0.002	<*0.002	0.002	0.005	<*0.002
CALCIUM	25	53	33	63	38	3.6	40	25	57
CHROMIUM	0.57	0.18	0.06	0.13	0.14	<*0.02	<*0.02	0.05	0.03
COBALT	0.07	<*0.01	<*0.01	0.02	<*0.01	<*0.01	<*0.01	0.02	<*0.01
COPPER	0.10	<*0.01	<*0.01	0.05	<*0.01	0.04	0.02	0.06	<*0.01
IRON	117	3.2	0.59	15	1.2	0.22	0.43	24	0.33
LEAD	0.35	<*0.05	0.07	0.12	<*0.05	<*0.05	<*0.05	0.08	<*0.05
LITHIUM	0.17	<*0.03	0.16	0.11	0.17	0.16	<*0.03	0.13	<*0.03
MAGNESIUM	31	4.7	8.2	6.2	0.63	0.32	6.4	6.2	7.7
MANGANESE	3.4	0.39	0.020	1.0	0.026	0.008	0.035	1.1	0.018
MOLYBDENUM	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02	<*0.02
NICKEL	0.39	0.10	0.04	0.17	0.04	<*0.02	0.02	0.05	0.03
SELENIUM	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
SILICON	46	12	8.0	9.7	6.1	4.0	7.3	20	7.6
SILVER	<*0.01	<*0.01	<*0.01	0.02	<*0.01	0.11	0.10	0.05	<*0.01
SODIUM	7.2	5.2	43	17	140	110	24	3.8	16
STRONTIUM	0.074	0.082	0.63	0.12	0.72	0.063	0.34	0.055	0.50
THALLIUM	<*0.3	0.3	<*0.3	<*0.3	<*0.3	<*0.3	<*0.3	0.6	<*0.3
TIN	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2	<*0.2
TITANIUM	0.69	0.027	<*0.003	0.050	0.011	0.008	0.013	0.24	<*0.003
VANADIUM	0.03	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01	<*0.01
ZINC	0.31	0.07	0.02	0.08	0.04	<*0.01	<*0.01	0.02	0.03
URANIUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
MERCURY	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001	<*0.001

MISCELLANEOUS CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

PARAMETER	WELL NUMBER GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8
TOTAL SUSPENDED SOLIDS	213	3	294	1520	23	156	200
CONDUCTIVITY (IN UMHOS/CM)	120	300	625	750	415	185	245
PH (IN PH UNITS)	7.03	6.55	6.67	7.00	7.24	6.91	6.95
DISSOLVED OXYGEN	7.8	3.7	2.3	1.0	2.5	3.1	2.2
REDOX (IN MV)	222	191	161	28	150	97	134
WATER TEMP. (IN DEGREES CENTIGRADE)	10.6	10.0	10.7	7.2	11.7	8.0	9.6
PHENOLPHTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0
METHYL ORANGE ALKALINITY (AS CACO3)	47	163	121	371	169	39	83
CHEMICAL OXYGEN DEMAND	2	<*1	3	19	4	20	4
TOTAL ORGANIC CARBON	1	<*1	1	22	3	14	3
NITRATE - N	0.07	0.02	0.04	0.07	0.60	0.25	0.07
AMMONIA - N	0.05	0.05	0.06	3	0.06	0.1	0.06
TOTAL KJELDAHL NITROGEN	0.17	0.12	0.14	3	0.13	0.20	0.18
ORTHO PHOSPHATE - P	0.05	<*0.01	0.02	0.02	<*0.01	0.02	<*0.01
SULFATE	3	2	3	6	4	2	1
STATIC WATER LEVEL (IN FEET BELOW GRADE)	10.6	8.0	3.9	1.3	1.5	2.1	10.6
DATE SAMPLED	3/7/84	3/7/84	3/6/84	3/6/84	3/7/84	3/6/84	3/6/84
DATE STATIC WATER LEVEL MEASURED	3/5/84	3/5/84	3/5/84	3/5/84	3/5/84	3/5/84	3/5/84
DATE TEMP., PH, REDOX & COND. MEASURED	3/7/84	3/7/84	3/6/84	3/6/84	3/7/84	3/6/84	3/6/84
DATE DO MEASURED	3/7/84	3/7/84	3/10/84	3/10/84	3/7/84	3/10/84	3/10/84

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER						
PARAMETER	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44	Y-GMW20
TOTAL SUSPENDED SOLIDS	809	8	136	821	1430	252	2600
CONDUCTIVITY (IN UMHOS/CM)	500	350	170	600	180	310	800
PH (IN PH UNITS)	6.50	6.90	7.08	6.50	6.10	6.78	6.55
DISSOLVED OXYGEN	2.5	2.0	3.7	4.4	5.9	4.6	3.7
REDOX (IN MV)	0	198	132	193	166	203	142
WATER TEMP. (IN DEGREES CENTIGRADE)	6.7	11.1	6.8	8.8	9.9	8.8	11.6(1)
PHENOLPHTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0
METHYL ORANGE ALKALINITY (AS CACO3)	212	147	67	317	72	158	314
CHEMICAL OXYGEN DEMAND	7	<*1	<*1	3	7	<*1	21
TOTAL ORGANIC CARBON	3	<*1	1	3	2	<*1	7
NITRATE - N	0.55	0.10	0.18	0.03	0.03	0.02	0.07
AMMONIA - N	0.04	0.04	0.12	0.05	0.05	0.08	0.04
TOTAL KJELDAHL NITROGEN	0.42	0.14	0.17	0.30	0.75	0.15	0.90
ORTHO PHOSPHATE - P	<*0.01	0.01	0.06	<*0.01	0.01	0.13	<*0.01
SULFATE	5	2	2	1	8	5	30
STATIC WATER LEVEL (IN FEET BELOW GRADE)	0.7	+1.3	0.5	+1.3	20.0	19.9	6.7
DATE SAMPLED	3/6/84	3/7/84	3/6/84	3/7/84	3/7/84	3/7/84	3/13/84
DATE STATIC WATER LEVEL MEASURED	3/5/84	3/5/84	3/5/84	3/6/84	3/6/84	3/6/84	3/12/84
DATE TEMP., PH, REDOX & COND. MEASURED	3/6/84	3/7/84	3/6/84	3/7/84	3/7/84	3/7/84	3/13/84
DATE DO MEASURED	3/10/84	3/7/84	3/10/84	3/7/84	3/7/84	3/7/84	3/13/84

MISCELLANEOUS CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS 6:20 SATURDAY, APRIL 28 1984
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER						
PARAMETER	GW-14	GW-15	GW-47	GW-48	GW-49	GW-50	GW-51
TOTAL SUSPENDED SOLIDS	2048	1348	2082	1206	114	*	1330
CONDUCTIVITY (IN UMHOS/CM)	1050	1600	90	230	380	*	280
PH (IN PH UNITS)	6.16	6.12	7.98	6.41	6.55	*	7.36
DISSOLVED OXYGEN	5.6	2.8	7.2	5.0	6.6	*	6.9
REDOX (IN MV)	204	38	217	208	198	*	8
WATER TEMP. (IN DEGREES CENTIGRADE)	10.3	7.1	6.8	5.4	7.1	*	6.8
PHENOLPHTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	*	<*1.0
METHYL ORANGE ALKALINITY (AS CACO3)	328	464	37	97	192	*	118
CHEMICAL OXYGEN DEMAND	14	657	5	25	2	*	45
TOTAL ORGANIC CARBON	3	170	<*1	9	<*1	*	10
NITRATE - N	0.04	0.04	0.14	0.06	0.22	*	0.09
AMMONIA - N	0.06	4.2	0.05	0.12	0.04	*	0.52
TOTAL KJELDAHL NITROGEN	0.88	3.0	0.71	1.0	0.16	*	1.7
ORTHO PHOSPHATE - P	0.03	0.06	0.33	0.03	0.01	*	0.07
SULFATE	5	11	20	13	4	*	7
STATIC WATER LEVEL (IN FEET BELOW GRADE)	2.5	0.4	3.8	0.8	7.8	*	5.2
DATE SAMPLED	3/9/84	3/9/84	3/8/84	3/9/84	3/9/84	*	3/9/84
DATE STATIC WATER LEVEL MEASURED	3/9/84	3/9/84	3/8/84	3/8/84	3/8/84	*	3/8/84
DATE TEMP., PH, REDOX & COND. MEASURED	3/9/84	3/9/84	3/8/84	3/9/84	3/9/84	*	3/9/84
DATE DO MEASURED	3/9/84	3/9/84	3/8/84	3/9/84	3/9/84	*	3/9/84

MISCELLANEOUS CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER							
METER	GW-21	GW-20	BG-18	BG-19	BG-20	GW-53	GW-45	GW-52
I SUSPENDED SOLIDS	89	44	27	46	117	235	62	183
UCTIVITY (IN UMHOS/CM)	700	1475	1150	500	600	600	230	600
IN PH UNITS)	6.70	6.22	6.52	7.17	6.78	6.88	7.05	6.74
OLVED OXYGEN	3.9	4.0	5.0	1.5	4.7	6.2	7.8	7.0
Y (IN MV)	107	160	-58	203	199	215	192	195
R TEMP. (IN DEGREES CENTIGRADE)	7.5	10.2	12.1	7.9	8.7	6.0	5.9	6.6
OLPHTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0
YL ORANGE ALKALINITY (AS CACO3)	322	241	202	266	136	254	107	112
ICAL OXYGEN DEMAND	52	112	22	<*1	5	5	2	3
L ORGANIC CARBON	16	19	9	<*1	3	<*1	<*1	<*1
ATE - N	0.03	0.02	0.02	0.04	34	0.15	0.81	35
NIA - N	0.07	0.04	0.06	0.09	0.05	0.06	0.05	0.05
L KJELDAHL NITROGEN	0.20	0.24	0.43	0.38	0.28	0.19	0.17	0.19
C PHOSPHATE - P	<*0.01	<*0.01	<*0.01	0.02	<*0.01	<*0.01	0.02	0.01
ATE	2	2	7	6	15	10	4	14
IC WATER LEVEL (IN FEET BELOW GRADE)	0.7	3.0	26.6	9.6	19.5	5.1	6.7	5.7
SAMPLED	3/8/84	3/8/84	3/12/84	3/10/84	3/10/84	3/8/84	3/9/84	3/9/84
STATIC WATER LEVEL MEASURED	3/7/84	3/7/84	3/10/84	3/10/84	3/10/84	3/8/84	3/8/84	3/8/84
TEMP., PH, REDOX & COND. MEASURED	3/8/84	3/8/84	3/12/84	3/10/84	3/10/84	3/8/84	3/9/84	3/9/84
DO MEASURED	3/8/84	3/8/84	3/12/84	3/10/84	3/10/84	3/8/84	3/9/84	3/9/84

MISCELLANEOUS CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS 8:20 SATURDAY, APRIL 28 1984
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER									
	GW-23	GW-24	GW-26	GW-27	GW-28	GW-29	GW-39	GW-40	GW-41	GW-42
SPENDED SOLIDS	42	99	269	13	114	138	386	3840	219	348
VITY (IN UMHOS/CM)	>5000	1800	290	1450	320	2350	1800	170	100	75
H UNITS)	5.87	6.16	6.90	6.47	6.39	6.40	6.84	7.30	7.72	7.35
D OXYGEN	5.8	4.0	6.6	3.8	6.4	4.5	6.6	5.4	5.2	6.5
N MV)	163	151	230	151	202	201	208	183	145	150
MP. (IN DEGREES CENTIGRADE)	10.0	11.5	11.0	12.7	9.8	8.2	8.4	11.4	9.8	10.3
THALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0
RANGE ALKALINITY (AS CACO3)	165	270	55	299	144	486	322	45	20	33
OXYGEN DEMAND	68	104	8	119	<*1	144	53	112	3	7
GANIC CARBON	5	21	4	24	3	50	19	3	<*1	<*1
- N	43	0.02	0.12	0.01	0.06	0.03	0.07	0.06	0.04	0.05
- N	0.09	0.05	0.05	0.06	0.03	0.10	0.05	0.05	0.04	0.03
ELDAHL NITROGEN	0.16	0.42	0.32	0.75	0.23	1.2	0.47	1.4	0.15	0.25
OSPHATE - P	0.04	<*0.01	<*0.01	0.03	0.02	0.02	0.06	0.04	0.05	0.15
	1	1	10	1	4	75	5	26	19	5
ATER LEVEL (IN FEET BELOW GRADE)	7.2	12.4	15.9	13.3	13.0	4.3	9.7	14.5	17.1	14.4
PLED	3/9/84	3/8/84	3/8/84	3/8/84	3/8/84	3/10/84	3/9/84	3/8/84	3/8/84	3/8/84
TIC WATER LEVEL MEASURED	3/9/84	3/7/84	3/7/84	3/7/84	3/7/84	3/8/84	3/8/84	3/7/84	3/7/84	3/7/84
P., PH, REDOX & COND. MEASURED	3/9/84	3/8/84	3/8/84	3/8/84	3/8/84	3/10/84	3/9/84	3/8/84	3/8/84	3/8/84
MEASURED	3/9/84	3/8/84	3/8/84	3/8/84	3/8/84	3/10/84	3/9/84	3/8/84	3/8/84	3/8/84

MISCELLANEOUS CONVENTIONAL AND NON VENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER								
METER	GW-30	GW-31	GW-33	GW-34	GW-35	GW-36	GW-37	GW-38	BG-17
L SUSPENDED SOLIDS	451	416	462	5162	206	126	35	3964	98
UCTIVITY (IN UMHOS/CM)	380	465	390	260	*	500	415	500	800
IN PH UNITS)	6.63	6.48	6.85	6.76	6.93	6.39	7.22	7.01	6.33
OLVED OXYGEN	4.5	6.0	6.2	1.2	4.7	5.2	3.6	5.0	4.7
X (IN MV)	185	209	221	207	141	164	211	192	119
R TEMP. (IN DEGREES CENTIGRADE)	7.3	8.5	9.9	10.3	10.8	11.8	8.5	9.8	11.7
OLPHTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0
YL ORANGE ALKALINITY (AS CACO3)	198	184	173	122	95	223	171	216	356
ICAL OXYGEN DEMAND	11	4	5	18	<*1	6	4	11	3
L ORGANIC CARBON	3	3	<*1	8	1	<*1	<*1	2	<*1
ATE - N	0.06	0.09	0.09	0.04	0.03	0.07	0.04	0.85	1.2
NIA - N	0.06	0.04	0.05	0.07	0.04	0.06	0.05	0.06	0.12
L KJELDAHL NITROGEN	0.36	0.15	0.38	1.5	0.18	0.24	0.12	1.2	0.24
PHOSPHATE - P	0.12	0.02	0.01	0.12	0.06	0.14	0.01	0.05	0.02
ATE	5	24	17	11	43	7	18	23	19
IC WATER LEVEL (IN FEET BELOW GRADE)	24.1	25.1	19.4	40.2	24.2	30.1	42.1	45.3	28.8
SAMPLED	3/9/84	3/9/84	3/10/84	3/10/84	3/8/84	3/9/84	3/9/84	3/10/84	3/12/84
STATIC WATER LEVEL MEASURED	3/8/84	3/8/84	3/9/84	3/10/84	3/8/84	3/8/84	3/9/84	3/10/84	3/10/84
TEMP., PH, REDOX & COND. MEASURED	3/9/84	3/9/84	3/10/84	3/10/84	3/8/84	3/9/84	3/9/84	3/10/84	3/12/84
DO MEASURED	3/9/84	3/9/84	3/10/84	3/10/84	3/8/84	3/9/84	3/9/84	3/10/84	3/12/84

MISCELLANEOUS CONVENTIONAL AND NONC VENTIONAL POLLUTANTS
AND RELATED PARAM__ERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER			
PARAMETER	BG-10	BG-15	BG-13	BG-12
TOTAL SUSPENDED SOLIDS	44	516	388	197
CONDUCTIVITY (IN UMHOS/CM)	315	155	410	140
PH (IN PH UNITS)	6.95	6.90	5.81	7.09
DISSOLVED OXYGEN	3.0	4.0	1.6	5.5
REDOX (IN MV)	112	91	63	115
WATER TEMP. (IN DEGREES CENTIGRADE)	8.6	9.0	10.8	11.8
PHENOLPHTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0
METHYL ORANGE ALKALINITY (AS CACO3)	154	52	100	15
CHEMICAL OXYGEN DEMAND	2	16	1560	2
TOTAL ORGANIC CARBON	<*1	4	430	<*1
NITRATE - N	0.02	0.07	0.02	0.07
AMMONIA - N	0.05	0.04	3.2	0.05
TOTAL KJELDAHL NITROGEN	0.08	0.60	2.4	0.19
ORTHO PHOSPHATE - P	0.03	0.11	<*0.01	0.02
SULFATE	3	6	7	24
STATIC WATER LEVEL (IN FEET BELOW GRADE)	20.1	13.4	4.3	6.2
DATE SAMPLED	3/12/84	3/12/84	3/12/84	3/12/84
DATE STATIC WATER LEVEL MEASURED	3/12/84	3/12/84	3/12/84	3/12/84
DATE TEMP., PH, REDOX & COND. MEASURED	3/12/84	3/12/84	3/12/84	3/12/84
DATE DO MEASURED	3/12/84	3/12/84	3/12/84	3/12/84

MISCELLANEOUS CONVENTIONAL AND NONC /ENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER									
ER	GW-41	GW-42	GW-81	GW-82	GW-83	GW-79	GW-80	GW-77	GW-78	BG-11
USPENDED SOLIDS	160	332	1848	460	84	494	1905	67	616	192
IVITY (IN UMHOS/CM)	100	100	390	430	280	340	100	290	355	310
EH UNITS)	7.13	7.50	6.94	6.38	7.13	7.28	7.06	7.58	7.38	8.4
ED OXYGEN	5.1	4.3	2.3	4.4	2.3	2.3	3.4	*	*	2.6
IN MV)	133	100	115	141	139	152	112	80	62	*
EMP. (IN DEGREES CENTIGRADE)	13.0	13.6	12.0	13.3	12.7	11.0	12.1	10.6	10.1	12.6
HTHALEIN ALKALINITY (AS CACO3)	<*1.0	<*1.0	<*1.0	<*1.0	5.0	<*1.0	<*1.0	<*1.0	<*1.0	<*1.0
CRANGE ALKALINITY (AS CACO3)	24	42	159	218	129	148	31	158	171	173
L OXYGEN DEMAND	6	4.4	4	5.6	1	2	26	<*1.0	6.4	2
RGANIC CARBON	<*1	<*1	4	<*1	<*1	<*1	3	2	<*1	6
- N	0.08	0.07	0.06	0.03	0.03	0.06	0.06	0.12	0.12	0.04
- N	0.06	0.05	0.11	0.03	0.03	0.09	0.06	0.11	0.06	0.03
JELDAHL NITROGEN	0.20	0.17	0.79	0.27	0.06	0.31	0.68	0.19	0.38	0.25
HOSPHATE - P	0.06	0.21	0.09	0.05	0.04	0.50	0.11	0.06	0.11	0.03
	23	6	26	8	22	7	10	12	22	16
WATER LEVEL (IN FEET BELOW GRADE)	15.6	14.1	2.0	17.3	9.2	13.4	16.4	2.1	2.3	2.5
EPLED & COND. MEASURED	4/3/84	4/3/84	4/3/84	4/3/84	4/4/84	4/3/84	4/3/84	4/3/84	4/3/84	4/9/84
ATIC WATER LEVEL MEASURED	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84
MP., PH, & REDOX MEASURED	4/3/84	4/3/84	4/3/84	4/3/84	4/4/84	4/3/84	4/3/84	4/3/84	4/3/84	4/20/84
MEASURED	4/6/84	4/6/84	4/6/84	4/6/84	4/6/84	4/7/84	4/7/84	*	*	4/9/84

MISCELLANEOUS CONVENTIONAL AND NONC ENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER						
PARAMETER	GW-23	GW-71	GW-72	GW-69	GW-70	GW-68	GW-46
TOTAL SUSPENDED SOLIDS	54	163	444	101	25188	26	3084
CONDUCTIVITY (IN UMHCS/CM)	>5000	>5000	3600	370	550	550	115
PH (IN PH UNITS)	7.4	11.2	12.2	9.6	10.5	6.59	9.1
DISSOLVED OXYGEN	2.6	5.3	5.7	3.1	4.4	2.2	5.3
REDOX (IN MV)	*	*	*	*	*	83	*
WATER TEMP. (IN DEGREES CENTIGRADE)	14.2	14.1	13.4	14.5	14.4	14.8	12.7
PHENOLPHTHALEIN ALKALINITY (AS CACO3)	<*1	2750	880	32	20	<*1	<*1
METHYL ORANGE ALKALINITY (AS CACO3)	122	2900	1080	213	2000	172	62
CHEMICAL OXYGEN DEMAND	22	31	16	4	281	4	29
TOTAL ORGANIC CARBON	8	14	5	1	92	3	6
NITRATE - N	37	0.02	0.06	0.07	0.03	0.04	0.44
AMMONIA - N	0.10	5.5	0.16	0.14	0.12	0.21	0.12
TOTAL KJELDAHL NITROGEN	0.40	6.9	0.42	0.28	4.5	0.25	1.4
ORTHO PHOSPHATE - P	0.03	0.03	0.05	0.06	0.09	0.01	0.02
SULFATE	<*1	<*1	2	8	29	4	10
STATIC WATER LEVEL (IN FEET BELOW GRADE)	8.9	29.3	5.8	6.0	4.9	6.0	5.9
DATE SAMPLED & COND. MEASURED	4/6/84	4/10/84	4/6/84	4/6/84	4/6/84	4/4/84	4/6/84
DATE STATIC WATER LEVEL MEASURED	4/10/84	4/10/84	4/10/84	4/10/84	4/10/84	4/9/84	4/10/84
DATE TEMP., PH, & REDOX MEASURED	4/20/84	4/20/84	4/20/84	4/20/84	4/20/84	4/4/84	4/20/84
DATE DO MEASURED	4/6/84	4/10/84	4/6/84	4/6/84	4/6/84	4/6/84	4/6/84

MISCELLANEOUS CONVENTIONAL AND NON VENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER							
\BAMETER	GW-54	GW-55	GW-56	GW-57	GW-60	GW-61	GW-58	GW-59
)TAL SUSPENDED SOLIDS	6932	*	332	1021	21	2077	21	320
)NDUCTIVITY (IN UMHOS/CM)	245	*	500	850	480	475	500	550
I (IN PH UNITS)	7.60	*	6.30	6.20	6.50	6.68	7.15	7.48
ISSOLVED OXYGEN	2.1	*	3.0	2.3	5.2	3.9	6.0	5.1
EDOX (IN MV)	418	*	399	425	158	167	260	210
\TER TEMP. (IN DEGREES CENTIGRADE)	10.8	*	9.3	9.8	8.8	8.9	10.9	7.5
IENOLPHTHALEIN ALKALINITY (AS CACO3)	14	*	<*1	<*1	<*1	<*1	<*1	74
:THYL ORANGE ALKALINITY (AS CACO3)	488	*	221	263	181	424	229	206
IEMICAL OXYGEN DEMAND	67	*	11	21	6	25	5	21
)TAL ORGANIC CARBON	15	*	3	6	1	8	1	2
:TRATE - N	0.08	*	3	0.09	12	6	4	3
IMONIA - N	0.33	*	0.29	0.12	0.04	0.05	0.05	0.26
)TAL KJELDAHL NITROGEN	0.33	*	0.64	0.79	0.08	0.98	0.12	0.61
:THC PHOSPHATE - P	0.11	*	0.01	0.01	<*0.01	0.01	0.01	0.01
IFATE	18	*	26	26	23	23	14	47
:ATIC WATER LEVEL (IN FEET BELOW GRADE)	6.9	*	2.8	2.9	12.1	12.2	19.3	19.5
\TE SAMPLED & COND. MEASURED	4/5/84	*	4/5/84	4/5/84	4/5/84	4/5/84	4/5/84	4/5/84
\TE STATIC WATER LEVEL MEASURED	4/9/84	*	4/9/84	4/9/84	4/9/84	4/9/84	4/9/84	4/9/84
.TE TEMP., PH, & REDOX MEASURED	4/5/84	*	4/5/84	4/5/84	4/5/84	4/5/84	4/5/84	4/5/84
\TE DO MEASURED	4/7/84	*	4/7/84	4/7/84	4/7/84	4/7/84	4/7/84	4/7/84

MISCELLANEOUS CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS 12:2. SUNDAY, APRIL 29 1984
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER								
TER	GW-84	GW-85	GW-86	GW-66	GW-67	GW-64	GW-65	GW-62	GW-63
SUSPENDED SOLIDS	2005	19	1254	18	71	1280	460	250	777
TIVITY (IN UMHOS/CM)	355	850	315	700	900	600	650	600	650
EH UNITS)	6.72	6.72	6.89	6.40	6.36	6.77	7.03	6.59	6.80
VED OXYGEN	3.1	4.7	4.3	3.9	3.5	3.6	4.9	5.1	5.6
(IN MV)	140	224	223	200	226	218	232	179	175
TEMP. (IN DEGREES CENTIGRADE)	12.4	11.5	11.7	12.6	10.8	11.8	12.0	9.6	10.3
PHTHALEIN ALKALINITY (AS CACO3)	<*1	<*1	<*1	<*1	<*1	<*1	<*1	<*1	<*1
ORANGE ALKALINITY (AS CACO3)	348	132	189	265	404	336	250	311	348
AL OXYGEN DEMAND	10	<*1	2	4	3	6	6	5	4
ORGANIC CARBON	<*1	<*1	<*1	2	3	3	1	2	4
3 - N	0.06	47	0.22	5	3	7	12	3	5
A - N	0.05	0.09	0.06	0.03	0.05	0.05	0.25	0.22	0.06
KJELDAHL NITROGEN	0.51	0.12	0.31	0.07	0.15	0.74	0.31	0.48	0.32
PHOSPHATE - P	0.11	0.02	0.11	0.02	0.05	0.03	0.01	0.01	0.01
3	7	7	6	150	135	23	38	21	13
WATER LEVEL (IN FEET BELOW GRADE)	6.7	7.1	6.9	*	2.5	20.2	21.1	25.6	25.3
AMPLED & COND. MEASURED	4/4/84	4/4/84	4/4/84	4/4/84	4/4/84	4/4/84	4/4/84	4/5/84	4/5/84
TATIC WATER LEVEL MEASURED	4/9/84	4/9/84	4/9/84	*	4/9/84	4/9/84	4/9/84	4/9/84	4/9/84
EMP., PH, & REDOX MEASURED	4/4/84	4/4/84	4/4/84	4/4/84	4/4/84	4/4/84	4/4/84	4/5/84	4/5/84
D MEASURED	4/6/84	4/6/84	4/6/84	4/6/84	4/6/84	4/7/84	4/7/84	4/6/84	4/6/84

MISCELLANEOUS CONVENTIONAL AND NON VENTIONAL POLLUTANTS
AND RELATED PARAMETERS
IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	WELL NUMBER								
IETER	GW-43	GW-44	GW-76	GW-87	GW-75	GW-74	GW-11	GW-12	GW-73
. SUSPENDED SOLIDS	2762	51	89	303	95	14	11	621	1.2
ICTIVITY (IN UMHOS/CM)	300	305	400	415	1650	500	325	231	480
:N PH UNITS)	7.10	7.10	6.80	6.65	13.8	13.1	6.4	5.8	6.97
)LVED OXYGEN	*	*	2.7	3.6	3.5	3.0	3.4	4.0	2.3
: (IN MV)	219	209	124	147	*	*	*	*	151
: TEMP. (IN DEGREES CENTIGRADE)	12.7	12.7	16.2	12.1	14.8	15.0	13.0	11.3	18.2
)LPHTHALEIN ALKALINITY (AS CACO3)	<*1	<*1	<*1	<*1	320	40	<*1	<*1	<*1
'L ORANGE ALKALINITY (AS CACO3)	76	167	210	163	476	284	167	74	196
CAL OXYGEN DEMAND	7	2	4	12	26	8	6	7	<*1
. ORGANIC CARBON	2	<*1	<*1	3	9	3	4	2	<*1
TE - N	0.08	0.03	0.10	0.18	0.11	0.03	0.04	0.12	1
IA - N	0.03	0.05	0.21	0.02	0.49	0.11	0.02	0.02	0.02
KJELDAHL NITROGEN	0.09	0.09	0.31	0.25	1.0	0.30	0.04	0.21	0.03
PHOSPHATE - P	0.06	0.16	0.01	0.01	0.02	0.05	0.03	0.08	0.02
TE	10	6	9	14	90	6	7	7	6
C WATER LEVEL (IN FEET BELOW GRADE)	12.9	11.7	+0.4	2.8	*	ARTESIAN	+2.0	0.1	+0.7
SAMPLED & COND. MEASURED	4/4/84	4/4/84	4/4/84	4/4/84	4/10/84	4/6/84	4/6/84	4/6/84	4/4/84
STATIC WATER LEVEL MEASURED	4/9/84	4/9/84	4/9/84	4/9/84	*	4/9/84	4/9/84	4/9/84	4/9/84
TEMP., PH, & REDOX MEASURED	4/4/84	4/4/84	4/4/84	4/4/84	4/20/84	4/20/84	4/20/84	4/20/84	4/4/84
IO MEASURED	*	*	4/7/84	4/6/84	4/10/84	4/6/84	4/6/84	4/6/84	4/6/84

TOTAL URANIUM

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER						
PARAMETER	GW-1	GW-2	GW-3	GW-5	GW-6	GW-7	GW-8
TOTAL URANIUM	1.19	0.3	3.57	42.0	0.2	2.2	0.9

TOTAL URANI

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER						
PARAMETER	GW-10	GW-11	GW-12	GW-13	GW-43	GW-44	Y-GMW20
TOTAL URANIUM	1.4	0.5	0.5	2.0	2.17	0.4	15.03

TOTAL URANIU 6.20 SATURDAY, APRIL 8

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER						
PARAMETER	GW-14	GW-15	GW-47	GW-48	GW-49	GW-50	GW-51
TOTAL URANIUM	11.69	6.03	1.82	3.28	0.25	*	1.8

TOTAL URANIU

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER							
PARAMETER	GW-21	GW-20	BG-18	BG-19	BG-20	GW-53	GW-45	GW-52
TOTAL URANIUM	3.34	1.73	0.35	0.6	76.2	1.3	0.2	56.0

TOTAL URANIU

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER									
PARAMETER	GW-23	GW-24	GW-26	GW-27	GW-28	GW-29	GW-39	GW-40	GW-41	GW-42
TOTAL URANIUM	2.3	2.3	541	22.9	2.1	4.3	1.0	0.2	0.7	0.7

TOTAL URANIU

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER								
PARAMETER	GW-30	GW-31	GW-33	GW-34	GW-35	GW-36	GW-37	GW-38	BG-17
TOTAL URANIUM	0.8	2.34	2.62	182	1.8	5.66	0.94	12.35	192

TOTAL URANIUM

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER			
PARAMETER	BG-10	BG-15	BG-13	BG-12
TOTAL URANIUM	0.36	3.05	112.3	1.68

TOTAL URANIUM

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER									
PARAMETER	GW-41	GW-42	GW-81	GW-82	GW-83	GW-79	GW-80	GW-77	GW-78	BG-11
TOTAL URANIUM	0.59	1.41	6.88	2.30	0.21	0.28	4.56	1.19	1.885	2.11

TOTAL URANI(

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER						
PARAMETER	GW-23	GW-71	GW-72	GW-69	GW-70	GW-68	GW-46
TOTAL URANIUM	985	0.885	0.86	0.84	30.9	2.81	3.06

TOTAL URANIU

IN GRCUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER							
PARAMETER	GW-54	GW-55	GW-56	GW-57	GW-60	GW-61	GW-58	GW-59
TOTAL URANIUM	15.17	*	6.7	7.82	11.64	12.50	11.48	8.99

TOTAL URANI(

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER								
PARAMETER	GW-84	GW-85	GW-86	GW-66	GW-67	GW-64	GW-65	GW-62	GW-63
TOTAL URANIUM	2.96	0.370	34.7	0.443	48.1	4.09	3.34	1.355	2.96

TOTAL URANIUM

IN GROUNDWATER

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/L (PICOCURIES PER LITER)

	WELL NUMBER								
PARAMETER	GW-43	GW-44	GW-76	GW-87	GW-75	GW-74	GW-11	GW-12	GW-73
TOTAL URANIUM	4.26	0.36	1.252	395	1.372	0.40	0.57	2.19	0.549

APPENDIX D

SOILS DATA
(1983 4th Quarter)

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM
SOIL BORING GW-1

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	N	N	<10	27
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	N	N	N	<10
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	<10
1,1-DICHLOROETHYLENE	N	N	N	N
1,2-DICHLOROPROPANE	N	N	<10	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	N	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	<10	N
METHYLENE CHLORIDE	270	220	350	960
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N
TOLUENE	<10	<10	88	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	<10
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHYLENE	N	N	N	<10
TRICHLOROFLUOROMETHANE	N	N	N	240
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM
SOIL BORING GW-5

	DEPTH (IN FEET)						
VOLATILE ORGANIC	2.0-3.1	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	<10	10	10	N	<10	<10	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	<10	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	<10	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	<10	<10	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	65	100	120	14	110	43	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	<10	<10	<10	<10	N	N	N
TOLUENE	680	1600	450	80	29	25	<10
TRANS-1,2-DICHLOROETHYLENE	<10	<10	<10	N	<10	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	N	<10	<10	N
TRICHLOROFLUOROMETHANE	N	<10	<10	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM
SOIL BORING GW-8

	DEPTH (IN FEET)
VOLATILE ORGANIC	14.0-15.5
ACROLEIN	N
ACRYLONITRILE	N
BENZENE	N
BROMOFORM	N
CARBON TETRACHLORIDE	N
CHLOROBENZENE	N
CHLORODIBROMOMETHANE	N
CHLOROETHANE	N
2-CHLOROETHYL VINYL ETHER	N
CHLOROFORM	N
DICHLOROBROMOMETHANE	N
DICHLORODIFLUOROMETHANE	N
1,1-DICHLOROETHANE	N
1,2-DICHLOROETHANE	N
1,1-DICHLOROETHYLENE	N
1,2-DICHLOROPROPANE	N
CIS-1,3-DICHLOROPROPYLENE	N
TRANS-1,3-DICHLOROPROPYLENE	N
ETHYL BENZENE	N
METHYL BROMIDE	N
METHYL CHLORIDE	N
METHYLENE CHLORIDE	N
1,1,2,2-TETRACHLOROETHANE	N
TETRACHLOROETHYLENE	N
TOLUENE	N
TRANS-1,2-DICHLOROETHYLENE	N
1,1,1-TRICHLOROETHANE	N
1,1,2-TRICHLOROETHANE	N
TRICHLOROETHYLENE	N
TRICHLOROFLUOROMETHANE	N
VINYL CHLORIDE	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM
SOIL BORING GW-11

VOLATILE ORGANIC	DEPTH (IN FEET) 6.5-8.0	8.0-9.5
ACROLEIN	N	N
ACRYLONITRILE	N	N
BENZENE	<10	<10
BROMOFORM	N	N
CARBON TETRACHLORIDE	N	N
CHLOROBENZENE	N	N
CHLORODIBROMOMETHANE	N	N
CHLOROETHANE	N	N
2-CHLOROETHYL VINYL ETHER	N	N
CHLOROFORM	N	N
DICHLOROBROMOMETHANE	N	N
DICHLORODIFLUOROMETHANE	N	N
1,1-DICHLOROETHANE	N	N
1,2-DICHLOROETHANE	N	N
1,1-DICHLOROETHYLENE	N	N
1,2-DICHLOROPROPANE	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N
ETHYL BENZENE	N	N
METHYL BROMIDE	N	N
METHYL CHLORIDE	N	N
METHYLENE CHLORIDE	N	74
1,1,2,2-TETRACHLOROETHANE	N	N
TETRACHLOROETHYLENE	<10	<10
TOLUENE	90	<10
TRANS-1,2-DICHLOROETHYLENE	<10	N
1,1,1-TRICHLOROETHANE	N	N
1,1,2-TRICHLOROETHANE	N	N
TRICHLOROETHYLENE	<10	N
TRICHLOROFLUOROMETHANE	N	N
VINYL CHLORIDE	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM
SOIL BORING GW-13

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5
ACROLEIN	N	N	N
ACRYLONITRILE	N	N	N
BENZENE	N	N	N
BROMOFORM	N	N	N
CARBON TETRACHLORIDE	N	N	N
CHLOROBENZENE	N	N	N
CHLORODIBROMOMETHANE	N	N	N
CHLOROETHANE	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N
CHLOROFORM	<10	N	N
DICHLOROBROMOMETHANE	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N
1,1-DICHLOROETHANE	N	N	N
1,2-DICHLOROETHANE	N	N	N
1,1-DICHLOROETHYLENE	N	N	N
1,2-DICHLOROPROPANE	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N
ETHYL BENZENE	N	N	N
METHYL BROMIDE	N	N	N
METHYL CHLORIDE	N	N	N
METHYLENE CHLORIDE	20	15	14
1,1,2,2-TETRACHLOROETHANE	N	N	N
TETRACHLOROETHYLENE	N	N	N
TOLUENE	200	43	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N
TRICHLOROETHYLENE	N	N	N
TRICHLOROFLUOROMETHANE	N	N	N
VINYL CHLORIDE	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM
SOIL BORING GW-44

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	<10	<10	<10	<10	15	69	39
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N
TOLUENE	N	<10	<10	<10	<10	<10	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	N	<10	N
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANIC PRIORITY POLLUTANTS
IN SOIL (SAMPLED BY HAND AUGER)
UNIT=PPB (PARTS PER BILLION)

LOCATION 1: 50 FT. WEST OF GW-12
LOCATION 2: 12 FT. SOUTHEAST OF GW-10
LOCATION 3: 50 FT. EAST OF GW-8
OIL LANDFARM

VOLATILE ORGANIC	LOCATION 1	1	2	2	2	3	3
DEPTH:	1 FT.	3 FT.	1 FT.	APPROX. 3 FT.	APPROX. 4.8 FT.	1 FT.	1.5 FT.
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	<10	N	N	<10	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	<10	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	<10	N
1,2-DICHLOROETHANE	N	N	N	N	N	<10	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	<10	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	90	14	N	77	10	160	62
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	<10	<10
TOLUENE	<10	N	N	<10	<10	13	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	<10	12
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	N	N	<10	N	14	N
TRICHLOROFLUOROMETHANE	39	12	N	36	23	45	N
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANIC PRIORITY POLLUTANTS
IN SOIL (SAMPLED BY HAND AUGER)
UNIT=PPB (PARTS PER BILLION)

LOCATION 4: 5 FT. SOUTH OF GW-6
LOCATION 5: 10 FT. WEST OF GW-3
LOCATION 6: 15 FT. SOUTHEAST OF GW-7
OIL LANDFARM

VOLATILE ORGANIC	LOCATION							
DEPTH:	4 1 FT.	4 3 FT.	4 5 FT.	5 1 FT.	5 2.75 FT.	6 1 FT.	6 3 FT.	6 4 FT.
ACROLEIN	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	56	65	120	45	32	32	30	37
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	<10	N	N	N	N	N	N	N
TOLUENE	10	<10	<10	<10	<10	<10	N	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	N	<10	<10	N	<10	N	N
TRICHLOROFLUOROMETHANE	15	13	54	17	<10	<10	10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

UNIT=PPB (PARTS PER BILLION)

OIL LANDFARM

VOLATILE ORGANIC	STATION 1	2	3	4	6	7	8	9	10	11	12	13	14	15
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N	<10	<10	N	<10	<10
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	10	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	<10	N	N	N	N	N	N	N	N	48	26	<10	76	68
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	<10	N	N	N	N	N	<10	<10	150	N	N	N
TOLUENE	<10	N	<10	N	N	N	N	<10	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	<10	N	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	<10	N	N	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	<10	N	N	N	N	N	N	N	<10	N	<10	<10
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N	N	N	N	<10	<10	N	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-14

VOLATILE ORGANIC	DEPTH (IN FEET) 2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	<10	<10	<10	N	N	<10
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	N	<10	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	<10	<10	24
1,2-DICHLOROETHANE	N	<10	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	<10
1,2-DICHLOROPROPANE	<10	<10	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	140	240	87	110	57	66
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	<10	33	390
TOLUENE	N	<10	17	<10	52	170
TRANS-1,2-DICHLOROETHYLENE	N	N	N	<10	16	950
1,1,1-TRICHLOROETHANE	N	N	N	N	N	<10
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10	26	280
TRICHLOROFLUOROMETHANE	17	26	10	13	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-15

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	4.1-6.4	6.5-8.0
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	23	74	910	16
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	<10	<10	61	N
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	<10	N	130	N
1,2-DICHLOROETHANE	N	<10	10	N
1,1-DICHLOROETHYLENE	<10	N	18	N
1,2-DICHLOROPROPANE	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	<10	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	N	N
METHYLENE CHLORIDE	46	N	27	12
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	140	31	210	82
TOLUENE	<10	<10	13	N
TRANS-1,2-DICHLOROETHYLENE	44	61	1700	<10
1,1,1-TRICHLOROETHANE	13	16	350	<10
1,1,2-TRICHLOROETHANE	N	N	<10	N
TRICHLOROETHYLENE	29	<10	<10	<10
TRICHLOROFLUOROMETHANE	<10	N	<10	N
VINYL CHLORIDE	N	N	<10	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-16
NOTE: 0.5-11.0 FT. SAMPLED 10/3/83 --- 11.0-17.0 FT. SAMPLED 10/4/83

VOLATILE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	<10	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	<10	<10	11	<10	<10	N	<10	<10	<10	N	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N
TOLUENE	N	N	<10	N	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER DILLION)

BURIAL GROUND A
SOIL BORING GW-17
NOTE: 0.0-7.5 FT. SAMPLED 9/27/83 ---- 7.5-21.0 FT. SAMPLED 9/30/83

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0	18.0-19.5	19.5-21.0
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	N	<10	<10	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	73	42	120	120	54	38	N	N	30	<10	14	<10	<10	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	<10	N	N	N	N	N	N	N	N	N	N	11	24	<10
TOLUENE	N	N	N	N	N	N	N	N	N	N	N	N	N	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	N	<10	<10	N	N	N	N	N	N	N	N	N	N
TRICHLOROFLUOROMETHANE	<10	<10	12	13	<10	<10	N	N	<10	N	<10	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-18

VOLATILE-ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0	17.0-18.5	18.5-20.0	20.0-21.5
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	<10	<10	N	N	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	<10	<10	<10	<10	<10	<10	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	15	47	120	110	31	49	56	39	72	93	45	29	20	33
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TOLUENE	N	N	N	N	N	N	N	N	N	N	N	<10	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	<10	<10	N	N	<10	N	<10	<10	N	N	N	N
TRICHLOROFLUOROMETHANE	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-20

VOLATILE ORGANIC	DEPTH (IN FEET) 1.0-2.5	2.5-4.0	4.0-5.5	5.5-7.0	7.0-8.5	8.5-10.0
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	<10	63	18	14	<10	<10
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	<10	20	38	N	11
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	N	<10	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	<10	500	150	130	34	69
1,2-DICHLOROETHANE	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	<10	<10	<10
1,2-DICHLOROPROPANE	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	<10	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	53	99	45	44	110	130
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	<10	<10	<10	260	77	290
TOLUENE	<10	42	<10	<10	<10	<10
TRANS-1,2-DICHLOROETHYLENE	21	39	55	1100	410	680
1,1,1-TRICHLOROETHANE	N	<10	<10	24	<10	28
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	N	190	39	100
TRICHLOROFLUOROMETHANE	N	N	N	N	11	14
VINYL CHLORIDE	N	<10	87	120	<10	35

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-21

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	18	250
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	11	11	230	500
1,2-DICHLOROETHANE	N	N	N	N	<10	<10
1,1-DICHLOROETHYLENE	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	16	38	23	20	33	20
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N
TOLUENE	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	<10
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	N	N
TRICHLOROFLUOROMETHANE	N	<10	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N	15

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-22

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	4.5-6.0	6.0-7.5	7.5-9.0
ACROLEIN	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N
BENZENE	N	N	N	N	N
BROMOFORM	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N
CHLOROFORM	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N
METHYLENE CHLORIDE	N	20	53	35	38
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N
TOLUENE	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N
TRICHLOROETHYLENE	N	N	<10	N	N
TRICHLOROFLUOROMETHANE	<10	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-23

VOLATILE ORGANIC	DEPTH (IN FEET) 2.0-3.5	5.0-6.5	8.0-9.5	11.0-12.5
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	N	N	N	N
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	N	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	N	N
METHYLENE CHLORIDE	220	36	29	41
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N
TOLUENE	<10	<10	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHYLENE	<10	N	N	N
TRICHLOROFLUOROMETHANE	<10	N	N	N
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-24

VOLATILE ORGANIC	DEPTH (IN FEET) 0.5-2.0	3.5-5.0	6.5-8.0	9.5-11.0	12.5-14.0	15.5-17.0
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N
DICHLORODBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	<10	N	N	N
1,2-DICHLOROETHANE	<10	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N
1,2-DICHLOROPROPANE	<10	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLCROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	200	68	39	57	81	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N
TOLUENE	<10	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	<10	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	N	<10	N	N
TRICHLOROFLUOROMETHANE	<10	<10	<10	<10	N	N
VINYL CHLORIDE	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-26

VOLATILE ORGANIC	DEPTH (IN FEET) 1.0-2.5	2.5-4.0	4.0-5.5	5.5-7.0	7.0-8.5	8.5-10.0
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	N	<10	N	N	N	N
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	<10	<10	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	<10	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N
1,2-DICHLOROPROPANE	<10	<10	<10	<10	<10	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	130	370	200	200	240	220
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N
TOLUENE	16	26	<10	<10	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	<10	N	N	<10	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	12	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	79	150	190	170	240	200
VINYL CHLORIDE	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-27
NOTE: 0.0-12.0 FT. SAMPLED 10/11/83 --- 12.0-18.0 FT. SAMPLED 10/12/83

VOLATILE ORGANIC	DEPTH (IN FEET) 1.5-3.0	7.5-9.0	10.5-12.0	13.5-15.0	16.5-18.0
ACROLEIN	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N
BENZENE	N	N	N	N	N
BROMOFORM	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N
CHLOROFORM	<10	N	N	N	<10
DICHLOROBROMOMETHANE	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	<10
1,2-DICHLOROETHANE	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N
METHYLENE CHLORIDE	150	110	140	120	140
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N
TETRACHLOROETHYLENE	<10	<10	<10	N	24
TOLUENE	<10	N	N	N	<10
TRANS-1,2-DICHLOROETHYLENE	<10	N	N	<10	<10
1,1,1-TRICHLOROETHANE	N	N	N	N	<10
1,1,2-TRICHLOROETHANE	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	<10	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-28

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	6.0-7.5	9.0-10.5
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	N	N	N	N
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	N	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	N	N
METHYLENE CHLORIDE	11	120	39	63
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N
TOLUENE	<10	<10	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHYLENE	N	<10	N	N
TRICHLOROFLUOROMETHANE	<10	21	<10	<10
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-29

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	6.0-7.5	9.0-10.5
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	N	N	N	N
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	<10	<10
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	<10	<10	<10	N
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	<10	<10	N
1,2-DICHLOROETHANE	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	N	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	N	N
METHYLENE CHLORIDE	N	130	130	99
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	1200	2000	1100	12
TOLUENE	N	<10	N	N
TRANS-1,2-DICHLOROETHYLENE	N	<10	N	<10
1,1,1-TRICHLOROETHANE	N	<10	<10	N
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHYLENE	24	240	70	15
TRICHLOROFLUOROMETHANE	N	<10	<10	<10
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-39

VOLATILE ORGANIC	DEPTH (IN FEET) 1.5-3.0	4.5-6.0	7.5-9.0	10.5-12.0	15.0-16.5
ACROLEIN	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N
BENZENE	N	N	N	N	N
BROMOFORM	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N
CHLOROFORM	<10	<10	N	N	N
DICHLORODBROMOMETHANE	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	13	280
1,2-DICHLOROETHANE	N	N	N	N	11
1,1-DICHLOROETHYLENE	N	N	N	11	120
1,2-DICHLCROPROPANE	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N
METHYLENE CHLORIDE	46	290	380	82	76
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N
TOLUENE	N	N	<10	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	<10	130
1,1,1-TRICHLOROETHANE	N	N	N	42	820
1,1,2-TRICHLOROETHANE	N	N	N	N	23
TRICHLOROETHYLENE	N	<10	<10	N	<10
TRICHLOROFLUOROMETHANE	N	11	13	N	<10
VINYL CHLORIDE	N	N	N	N	11

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-45

VOLATILE ORGANIC	DEPTH (IN FEET) 1.5-3.0	4.5-6.0	9.0-10.5	13.5-15.0
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	<10	N	<10	N
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	<10	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	<10	N	<10	<10
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N
1,2-DICHLOROETHANE	<10	N	<10	<10
1,1-DICHLOROETHYLENE	N	N	N	N
1,2-DICHLOROPROPANE	<10	N	<10	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	<10	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	N	N
METHYLENE CHLORIDE	400	140	390	350
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	<10
TOLUENE	<10	73	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N
1,1,1-TRICHLOROETHANE	<10	N	<10	N
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	13	<10	N	13
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-46

VOLATILE ORGANIC	DEPTH (IN FEET) 2.0-3.5	5.0-6.5	8.0-9.5	11.0-12.5	14.0-15.5	17.0-18.5
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	<10	N	<10	N	<10	N
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	<10	N	<10	<10	<10	<10
DICHLOROBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N
1,2-DICHLOROETHANE	<10	N	<10	<10	<10	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N
1,2-DICHLOROPROPANE	<10	N	<10	<10	<10	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	280	140	390	410	680	N
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	<10	N
TOLUENE	<10	<10	<10	<10	<10	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	<10	N	<10	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10	<10	N
TRICHLOROFLUOROMETHANE	<10	N	<10	<10	<10	N
VINYL CHLORIDE	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-47
NOTE: 0.0-15.0 FT. SAMPLED 10/31/83 --- 15.0-21.0 FT. SAMPLED 11/1/83

VOLATILE ORGANIC	DEPTH (IN FEET) 1.5-3.0	4.5-6.0	7.5-9.0	10.5-12.0	13.5-15.0	16.5-18.0	19.5-21.0
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	<10	N	N	N	N	<10	<10
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	<10	<10
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	<10	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	150	64	83	61	49	160	210
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N
TOLUENE	N	N	<10	<10	N	N	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	<10
TRICHLOROETHYLENE	<10	N	<10	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	42	16	29	16	15	46	43
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BOEING GW-48

VOLATILE ORGANIC	DEPTH (IN FEET) 1.5-3.0	4.5-6.0	7.5-9.0
ACROLEIN	N	N	N
ACRYLONITRILE	N	N	N
BENZENE	N	N	N
BROMOFORM	N	N	N
CARBON TETRACHLORIDE	N	N	N
CHLOROBENZENE	<10	<10	N
CHLORODIBROMOMETHANE	N	N	N
CHLOROETHANE	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N
CHLOROFORM	<10	<10	N
DICHLOROBROMOMETHANE	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N
1,1-DICHLOROETHANE	N	N	N
1,2-DICHLOROETHANE	N	N	N
1,1-DICHLOROETHYLENE	N	N	N
1,2-DICHLOROPROPANE	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N
ETHYL BENZENE	N	N	N
METHYL BROMIDE	N	N	N
METHYL CHLORIDE	N	N	N
METHYLENE CHLORIDE	N	<10	N
1,1,2,2-TETRACHLOROETHANE	N	N	N
TETRACHLOROETHYLENE	N	N	N
TOLUENE	200	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N
TRICHLOROETHYLENE	N	N	N
TRICHLOROFLUOROMETHANE	N	N	N
VINYL CHLORIDE	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-49

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.0
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	<10	<10	<10
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	<10	N	<10	N	N	N	<10
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	<10	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	<10	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	91	64	150	84	60	140	92	48	160
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N
TOLUENE	N	<10	<10	<10	N	<10	<10	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10	<10	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	34	18	30	45	18	76	24	13	43
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-50

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0
ACROLEIN	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N
BENZENE	N	<10	<10	<10	<10	<10	<10	N	<10	<10
BROMOFORM	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	<10	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	<10	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	<10
1,2-DICHLOROETHANE	N	N	<10	<10	<10	<10	<10	<10	<10	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	<10	N	<10	<10	<10	<10	<10	<10	<10	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	<10	N	N	<10
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	150	120	260	210	190	250	240	260	240	270
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N
TOLUENE	23	<10	<10	N	<10	<10	<10	11	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	<10	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	<10	N	N	<10
TRICHLOROETHYLENE	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	49	40	N	140	170	160	53	75	90	82
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-51

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-11.2
ACROLEIN	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	<10	<10	<10	<10
BROMOFORM	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N
CHLOROFORM	<10	N	N	N	N	N	N	<10
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	<10	N	N	N	N	N	N	<10
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N.	N
1,2-DICHLOROPROPANE	<10	N	N	N	N	N	N	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	160	110	130	46	90	63	80	180
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	<10
TOLUENE	<10	N	N	26	<10	<10	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10	<10	<10	<10	10
TRICHLOROFLUOROMETHANE	48	21	74	14	27	19	25	44
VINYL CHLORIDE	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-52

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.5-14.0	14.0-15.5	15.5-17.0	17.5-19.0
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	<10	<10	N	N	<10	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	<10	<10	N	<10	<10	N	<10	<10	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	<10	<10	N	N	N	N	<10	<10	<10	N	N	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	150	75	57	26	140	66	120	150	150	120	120	83
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N
TOLUENE	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	N	<10	<10	<10	<10	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	34	38	20	<10	53	17	40	37	42	32	56	34
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A
SOIL BORING GW-53

	DEPTH (IN FEET)
VOLATILE ORGANIC	0.0-1.5
ACROLEIN	N
ACRYLONITRILE	N
BENZENE	N
BROMOFORM	N
CARBON TETRACHLORIDE	N
CHLOROBENZENE	N
CHLORODIBROMOMETHANE	N
CHLOROETHANE	N
2-CHLOROETHYL VINYL ETHER	N
CHLOROFORM	<10
DICHLOROBROMOMETHANE	N
DICHLORODIFLUOROMETHANE	N
1,1-DICHLOROETHANE	N
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHYLENE	N
1,2-DICHLOROPROPANE	<10
CIS-1,3-DICHLOROPROPYLENE	N
TRANS-1,3-DICHLOROPROPYLENE	N
ETHYL BENZENE	N
METHYL BROMIDE	N
METHYL CHLORIDE	N
METHYLENE CHLORIDE	150
1,1,2,2-TETRACHLOROETHANE	N
TETRACHLOROETHYLENE	N
TOLUENE	<10
TRANS-1,2-DICHLOROETHYLENE	N
1,1,1-TRICHLOROETHANE	N
1,1,2-TRICHLOROETHANE	N
TRICHLOROETHYLENE	<10
TRICHLOROFLUOROMETHANE	26
VINYL CHLORIDE	N

VOLATILE ORGANIC PRIORITY POLLUTANTS
IN SOIL (SAMPLED BY HAND AUGER)

UNIT=PPB (PARTS PER BILLION)

LOCATION: TOP OF RIDGE ABOVE BURIAL GROUND A, ABOVE BACKGROUND WELLS

	DIRECTION		
VOLATILE ORGANIC DEPTH:	SOUTH 0.5 FT.	WEST 1.5 FT.	NORTH 1 FT.
ACROLEIN	N	N	N
ACRYLONITRILE	N	N	N
BENZENE	N	N	<10
BROMOFORM	N	N	N
CARBON TETRACHLORIDE	N	N	N
CHLOROBENZENE	<10	<10	N
CHLORODIBROMOMETHANE	N	N	N
CHLOROETHANE	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N
CHLOROFORM	<10	N	N
DICHLOROBROMOMETHANE	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N
1,1-DICHLOROETHANE	N	N	N
1,2-DICHLOROETHANE	<10	N	<10
1,1-DICHLOROETHYLENE	N	N	N
1,2-DICHLOROPROPANE	<10	<10	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N
ETHYL BENZENE	N	<10	N
METHYL BROMIDE	N	N	N
METHYL CHLORIDE	N	N	N
METHYLENE CHLORIDE	110	78	89
1,1,2,2-TETRACHLOROETHANE	N	N	N
TETRACHLOROETHYLENE	N	<10	N
TOLUENE	43	110	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N
TRICHLOROETHYLENE	<10	<10	<10
TRICHLOROFLUOROMETHANE	36	15	31
VINYL CHLORIDE	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SURFACE SOIL COMPOSITES

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A

VOLATILE ORGANIC	LOCATION S-3A	S-4A	S-5A	S-6A	S-7A
ACROLEIN	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N
BENZENE	N	250	18	N	N
BROMOFORM	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N
CHLOROBENZENE	N	<10	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N
CHLOROFORM	N	11	<10	N	<10
DICHLOROBROMOMETHANE	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N
1,1-DICHLOROETHANE	N	15	<10	N	N
1,2-DICHLOROETHANE	N	<10	<10	N	N
1,1-DICHLOROETHYLENE	N	47	82	N	N
1,2-DICHLOROPROPANE	<10	12	<10	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
ETHYL BENZENE	N	10	<10	N	N
METHYL BROMIDE	N	N	N	N	N
METHYL CHLORIDE	N	<10	N	N	N
METHYLENE CHLORIDE	200	400	320	N	16
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N
TETRACHLOROETHYLENE	290	7600	30000	<10	<10
TOLUENE	24	31	160	N	11
TRANS-1,2-DICHLOROETHYLENE	N	220	<10	N	N
1,1,1-TRICHLOROETHANE	N	1600	8000	N	N
1,1,2-TRICHLOROETHANE	N	11	<10	N	N
TRICHLOROETHYLENE	<10	220	290	N	<10
TRICHLOROFLUOROMETHANE	70	49	71	30	<10
VINYL CHLORIDE	N	<10	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND A

VOLATILE ORGANIC	STATION 1A	2A	3A	4A	5A	7A	8A	9A	11A	12A	13A	14A	15A	17A	20A	21A	22A	23A	24A	25A	26A
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	<10	N	N	<10	95	240	N	<10	<10	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	<10	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	<10	26	210	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	<10	N	N	N	N	N	N	55	<10	N	<10	N	N	N	N	N	<10	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	15	20	N	22	2100	1200	27	N	16	13	N	N	N	N	N	N	<10
1,2-DICHLOROETHANE	N	N	<10	N	N	N	N	N	66	96	N	N	<10	N	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	<10	46	<10	N	N	12	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	<10	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	19	N	N	N	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	<10	N	N	N	<10	N	N	N	N	N	N	N	N	N	N	<10	N
METHYLENE CHLORIDE	N	14	330	N	92	39	N	10	17	<10	15	<10	N	N	100	120	27	24	100	74	25
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	<10	<10	N	N	52	120	160	24	N	270	83	<10	N	N	<10	<10	<10	<10
TOLUENE	N	N	N	N	<10	N	N	<10	220	38	N	N	N	43	<10	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	27	<10	N	75	150	96	11	N	330	110	N	N	N	N	<10	<10	12
1,1,1-TRICHLOROETHANE	N	N	N	<10	N	N	N	N	<10	280	<10	N	38	N	13	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	<10	29	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	<10	<10	<10	N	N	<10	30	11	<10	N	59	30	<10	<10	N	N	<10	<10	<10
TRICHLOROFLUOROMETHANE	N	<10	24	N	<10	<10	N	N	N	<10	N	N	N	N	14	21	<10	<10	21	15	<10
VINYL CHLORIDE	N	N	N	N	N	N	N	<10	2000	24	N	N	<10	10	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-31
NOTE: 0.0-7.5 FT. SAMPLED 10/13/83 --- 7.5-16.5 FT. SAMPLED 10/14/83

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	6.0-7.5	9.0-10.5	10.5-12.0	12.0-13.5	15.0-16.5
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	58	71	56	<10	30	15	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N
TOLUENE	N	10	N	N	N	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	N	N	N
TRICHLOROFLUOROMETHANE	N	N	N	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-33

VOLATILE ORGANIC	DEPTH (IN FEET) 1.5-3.0	4.5-6.0	7.5-9.0
ACROLEIN	N	N	N
ACRYLONITRILE	N	N	N
BENZENE	N	N	N
BROMOFORM	N	N	N
CARBON TETRACHLORIDE	N	N	N
CHLOROBENZENE	N	N	N
CHLORODIBROMOMETHANE	N	N	N
CHLOROETHANE	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N
CHLOROFORM	N	<10	N
DICHLOROBROMOMETHANE	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N
1,1-DICHLOROETHANE	N	N	N
1,2-DICHLOROETHANE	N	N	N
1,1-DICHLOROETHYLENE	N	N	N
1,2-DICHLOROPROPANE	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N
ETHYL BENZENE	N	N	N
METHYL BROMIDE	N	N	N
METHYL CHLORIDE	N	N	N
METHYLENE CHLORIDE	110	130	84
1,1,2,2-TETRACHLOROETHANE	N	N	N
TETRACHLOROETHYLENE	12	15	<10
TOLUENE	<10	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N
TRICHLOROETHYLENE	<10	<10	N
TRICHLOROFLUOROMETHANE	11	17	16
VINYL CHLORIDE	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-34

VOLATILE ORGANIC	DEPTH (IN FEET) 1.0-2.5	2.5-4.0	4.0-5.5	5.5-6.5	12.5-12.9
ACROLEIN	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N
BENZENE	N	N	N	N	N
BROMOFORM	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N
CHLOROFORM	<10	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N
METHYLENE CHLORIDE	190	87	41	61	42
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N
TETRACHLOROETHYLENE	<10	N	N	N	66
TOLUENE	<10	N	N	N	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	<10
1,1,1-TRICHLOROETHANE	N	N	N	N	<10
1,1,2-TRICHLOROETHANE	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	N	N	12
TRICHLOROFLUOROMETHANE	26	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-35

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-8.5	9.0-9.5
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	<10	N	N	N	N	N	N
METHYLENE CHLORIDE	61	46	25	81	19	20	23
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	<10	N	N	N	N	N	N
TOLUENE	N	N	N	N	N	<10	N
TRANS-1,2-DICHLOROETHYLENE	<10	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	<10	N	N	N
TRICHLOROFLUOROMETHANE	13	<10	<10	11	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-36

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	6.0-7.5	9.0-10.5
ACROLEIN	N	N	N	N
ACRYLONITRILE	N	N	N	N
BENZENE	N	N	N	N
BROMOFORM	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N
CHLOROBENZENE	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N
CHLOROETHANE	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N
CHLOROFORM	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N
1,2-DICHLOROPROPANE	<10	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N
ETHYL BENZENE	N	N	N	N
METHYL BROMIDE	N	N	N	N
METHYL CHLORIDE	N	N	N	N
METHYLENE CHLORIDE	560	03	37	300
1,1,2,2-TETRACHLOROETHANE	N	N	N	N
TETRACHLOROETHYLENE	<10	N	N	N
TOLUENE	<10	94	<10	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N
1,1,1-TRICHLOROETHANE	<10	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N
TRICHLOROETHYLENE	18	<10	N	<10
TRICHLOROFLUOROMETHANE	570	25	11	170
VINYL CHLORIDE	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-37

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0
ACROLEIN	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N
CHLOROBENZENE	<10	N	N	<10	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N
METHYLENE CHLORIDE	<10	11	N	N	N	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N
TOLUENE	290	240	86	66	78	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N
TRICHLOROETHYLENE	N	N	N	N	N	N
TRICHLOROFLUOROMETHANE	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-40

VOLATILE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	<10	<10	<10	<10	<10	N	N	<10	<10
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	<10	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	<10	<10	<10	<10	N	N	N	<10	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	150	160	220	130	96	55	76	180	110
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N
TOLUENE	N	N	<10	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	<10	<10	<10	<10	<10	<10	<10
TRICHLOROFLUOROMETHANE	18	17	24	13	12	<10	<10	19	13
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-41

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.0
ACROLEIN	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	<10
BROMOFORM	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N
1,1-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N
ETHYL BENZENE	N	N	N	N	N	N	N
METHYL BROMIDE	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N
METHYLENE CHLORIDE	78	104	47	79	61	40	80
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N
TOLUENE	N	N	N	N	N	N	N
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N
TRICHLOROETHYLENE	<10	<10	N	<10	N	N	<10
TRICHLOROFLUOROMETHANE	<10	<10	<10	<10	<10	<10	<10
VINYL CHLORIDE	N	N	N	N	N	N	N

VOLATILE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-42
NOTE: 0.0-7.5 FT. SAMPLED 9/28/83 --- 7.5-16.5 FT. SAMPLED 9/29/83

VOLATILE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5
ACROLEIN	N	N	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N	N	N
BENZENE	13	<10	N	N	<10	N	N	<10	<10	<10	<10
BROMOFORM	N	N	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
2-CHLOROETHYL VINYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	<10	N	N
DICHLOROBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	<10	N	<10	N	N	N	N	<10	N	<10
1,1-DICHLOROETHYLENE	N	<10	N	<10	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	<10	N	<10	<10	N	N	N	<10	N	<10
CIS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPYLENE	N	N	N	N	N	N	N	N	N	N	N
ETHYL BENZENE	N	<10	N	N	N	N	N	N	<10	N	N
METHYL BROMIDE	N	N	N	N	N	N	N	N	N	N	N
METHYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	21	190	58	220	140	20	N	92	260	16	190
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
TETRACHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N
TOLUENE	N	<10	N	<10	<10	<10	N	N	<10	N	<10
TRANS-1,2-DICHLOROETHYLENE	N	N	N	N	N	N	N	N	N	N	N
1,1,1-TRICHLOROETHANE	N	<10	N	<10	N	N	N	N	<10	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
TRICHLOROETHYLENE	N	<10	N	<10	<10	N	N	<10	<10	N	<10
TRICHLOROFLUOROMETHANE	<10	28	<10	27	22	<10	N	11	25	<10	20
VINYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-5

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 2.0-3.1	3.5-5.0	9.5-11.0	11.0-12.5
2-CHLOROPHENOL	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N
2-NITROPHENOL	N	N	N	N
4-NITROPHENOL	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N
PHENOL	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-10

DEPTH (IN FEET)	
ACID EXTRACTABLE ORGANIC	10.5-12.0
2-CHLOROPHENOL	N
2,4-DICHLOROPHENOL	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N
4,6-DINITRO-O-CRESOL	N
2,4-DINITROPHENOL	N
2-NITROPHENOL	N
4-NITROPHENOL	N
P-CHLORO-M-CRESOL	N
PENTACHLOROPHENOL	N
PHENOL	N
2,4,6-TRICHLOROPHENOL	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-11

DEPTH (IN FEET)	
ACID EXTRACTABLE ORGANIC	8.0-9.5
2-CHLOROPHENOL	N
2,4-DICHLOROPHENOL	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N
4,6-DINITRO-O-CRESOL	N
2,4-DINITROPHENOL	N
2-NITROPHENOL	N
4-NITROPHENOL	N
P-CHLORO-M-CRESOL	N
PENTACHLOROPHENOL	N
PHENOL	N
2,4,6-TRICHLOROPHENOL	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM

ACID EXTRACTABLE ORGANIC	STATION 1	2	3	4	5	6	7	8	9	10	13
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-14

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5
2-CHLOROPHENOL	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-15

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	4.1-6.4	6.5-8.0
2-CHLOROPHENOL	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N
2-NITROPHENOL	N	N	N	N
4-NITROPHENOL	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N
PHENOL	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-16
NOTE: 0.5-11.0 FT. SAMPLED 10/3/83 --- 11.0-17.0 FT. SAMPLED 10/4/83

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-17
NOTE: 0.0-7.5 FT. SAMPLED 9/27/83 --- 7.5-21.0 FT. SAMPLED 9/30/83

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0	18.0-19.5	19.5-21.0
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-18

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0	17.0-18.5	18.5-20.0	20.0-21.5
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-20

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 1.0-2.5	2.5-4.0	4.0-5.5	5.5-7.0	7.0-8.5	8.5-10.0
2-CHLOROPHENOL	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-21

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0
2-CHLOROPHENOL	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-24

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-27
NOTE: 0.0-12.0 FT. SAMPLED 10/11/83 --- 12.0-18.0 FT. SAMPLED 10/12/83

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-29

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
2-CHLOROPHENOL	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-39

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-45

	DEPTH (IN FEET)
ACID EXTRACTABLE ORGANIC	9.0-10.5
2-CHLOROPHENOL	N
2,4-DICHLOROPHENOL	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N
4,6-DINITRO-O-CRESOL	N
2,4-DINITROPHENOL	N
2-NITROPHENOL	N
4-NITROPHENOL	N
P-CHLORO-M-CRESOL	N
PENTACHLOROPHENOL	N
PHENOL	N
2,4,6-TRICHLOROPHENOL	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B

	SOIL BORING NUMBER DEPTH (IN FEET)						
ACID EXTRACTABLE ORGANIC	GW-31 0.0-1.5	GW-31 15.0-16.5	GW-33 7.5-9.0	GW-35 9.0-9.5	GW-36 9.0-10.5	GW-37 7.5-9.0	GW-38 10.5-12.0
2,4,6-TRICHLOROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
P-CHLORO-M-CRESOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
2-CHLOROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
2,4-DICHLOROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
2,4-DIMETHYLPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
2-NITROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
4-NITROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
2,4-DINITROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
4,6-DINITRO-2-METHYLPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
PENTACHLOROPHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10
PHENOL	<*10	<*10	<*10	<*10	<*10	<*10	<*10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-31

	DEPTH (IN FEET)	
ACID EXTRACTABLE ORGANIC	0.0-1.5	15.0-16.5
2,4,6-TRICHLOROPHENOL	<*10	<*10
P-CHLORO-M-CRESCL	<*10	<*10
2-CHLOROPHENOL	<*10	<*10
2,4-DICHLOROPHENOL	<*10	<*10
2,4-DIMETHYLPHENOL	<*10	<*10
2-NITROPHENOL	<*10	<*10
4-NITROPHENOL	<*10	<*10
2,4-DINITROPHENCL	<*10	<*10
4,6-DINITRO-2-METHYLPHENOL	<*10	<*10
PENTACHLOROPHENCL	<*10	<*10
PHENOL	<*10	<*10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-33

	DEPTH (IN FEET)
ACID EXTRACTABLE ORGANIC	7.5-9.0
2,4,6-TRICHLOROPHENOL	<*10
P-CHLORO-M-CRESOL	<*10
2-CHLOROPHENOL	<*10
2,4-DICHLOROPHENOL	<*10
2,4-DIMETHYLPHENOL	<*10
2-NITROPHENOL	<*10
4-NITROPHENOL	<*10
2,4-DINITROPHENOL	<*10
4,6-DINITRO-2-METHYLPHENOL	<*10
PENTACHLOROPHENOL	<*10
PHENOL	<*10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-35

	DEPTH (IN FEET)
ACID EXTRACTABLE ORGANIC	9.0-9.5
2,4,6-TRICHLOROPHENOL	<* 10
P-CHLORO-M-CRESOL	<* 10
2-CHLOROPHENOL	<* 10
2,4-DICHLOROPHENOL	<* 10
2,4-DIMETHYLPHENOL	<* 10
2-NITROPHENOL	<* 10
4-NITROPHENOL	<* 10
2,4-DINITROPHENOL	<* 10
4,6-DINITRO-2-METHYLPHENOL	<* 10
PENTACHLOROPHENOL	<* 10
PHENOL	<* 10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-36

	DEPTH (IN FEET)
ACID EXTRACTABLE ORGANIC	9.0-10.5
2,4,6-TRICHLOROPHENOL	<*10
P-CHLORO-M-CRESOL	<*10
2-CHLOROPHENOL	<*10
2,4-DICHLOROPHENOL	<*10
2,4-DIMETHYLPHENOL	<*10
2-NITROPHENOL	<*10
4-NITROPHENOL	<*10
2,4-DINITROPHENOL	<*10
4,6-DINITRO-2-METHYLPHENOL	<*10
PENTACHLOROPHENOL	<*10
PHENOL	<*10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-37

	DEPTH (IN FEET)
ACID EXTRACTABLE ORGANIC	7.5-9.0
2,4,6-TRICHLOROPHENOL	<*10
P-CHLORO-M-CRESOL	<*10
2-CHLOROPHENOL	<*10
2,4-DICHLCROPHENOL	<*10
2,4-DIMETHYLPHENOL	<*10
2-NITROPHENOL	<*10
4-NITROPHENOL	<*10
2,4-DINITROPHENOL	<*10
4,6-DINITRO-2-METHYLPHENOL	<*10
PENTACHLOROPHENOL	<*10
PHENOL	<*10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-38

	DEPTH (IN FEET)
ACID EXTRACTABLE ORGANIC	10.5-12.0
2,4,6-TRICHLOROPHENOL	<*10
P-CHLORO-M-CRESOL	<*10
2-CHLOROPHENOL	<*10
2,4-DICHLOROPHENOL	<*10
2,4-DIMETHYLPHENOL	<*10
2-NITROPHENOL	<*10
4-NITROPHENOL	<*10
2,4-DINITROPHENOL	<*10
4,6-DINITRO-2-METHYLPHENOL	<*10
PENTACHLOROPHENOL	<*10
PHENOL	<*10

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-40

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-41

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.0
2-CHLOROPHENOL	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-42
NOTE: 0.0-7.5 FT. SAMPLED 9/28/83 --- 7.5-16.5 FT. SAMPLED 9/29/83

ACID EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL (M-XYLENOL)	N	N	N	N	N	N	N	N	N	N	N
4,6-DINITRO-O-CRESOL	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N	N	N
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N	N	N

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)
NOTE: (1) ESTIMATED CONCENTRATION
BURIAL GROUND B

PARAMETER	SOIL BORING NUMBER DEPTH (IN FEET) GW-31 15.0-16.5	GW-33 7.5-9.0	GW-35 9.0-9.5	GW-36 9.0-10.5	GW-37 7.5-9.0	GW-38 10.5-12.0
UNDECANE	300 (1)	F	F	F	F	F
3,3-DIMETHYLHEXANE	225 (1)	F	F	F	250 (1)	F
1-ETHYNYLOXY-OCTADECANE	F	F	F	F	F	1600 (1)
OCTANOIC ACID	F	F	260 (1)	225	300 (1)	F
HEXADECANOIC ACID	F	F	1000 (1)	F	F	1600 (1)
1-HEXADECENE	F	F	1350 (1)	F	F	F
TETRAMETHYLHEXANE	F	F	200 (1)	F	F	F
BUTYL-2-METHYLPROPYLPHTHALATE	F	F	F	F	F	4300 (1)
1-ETHENYLOXY-OCTADECANE	F	1100	F	F	900 (1)	F

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)
NOTE: (1) ESTIMATED CONCENTRATION
BURIAL GROUND B
SOIL BORING GW-31

	DEPTH (IN FEET)
PARAMETER	15.0-16.5
UNDECANE	300(1)
3,3-DIMETHYLHEXANE	225(1)
1-ETHYNYLOXY-OCTADECANE	F
OCTANOIC ACID	F
HEXADECANOIC ACID	F
1-HEXADECENE	F
TETRAMETHYLHEXANE	F
BUTYL-2-METHYLPROPYLPHTHALATE	F
1-ETHENYLOXY-OCTADECANE	F

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-33

	DEPTH (IN FEET)
PARAMETER	7.5-9.0
UNDECANE	F
3,3-DIMETHYLHEXANE	F
1-ETHYNYLOXY-OCTADECANE	F
OCTANOIC ACID	F
HEXADECANOIC ACID	F
1-HEXADECENE	F
TETRAMETHYLHEXANE	F
BUTYL-2-METHYLPROPYLPHTHALATE	F
1-ETHENYLOXY-OCTADECANE	1100

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)
NOTE: (1) ESTIMATED CONCENTRATION
BURIAL GROUND B
SOIL BORING GW-35

	DEPTH (IN FEET)
PARAMETER	9.0-9.5
UNDECANE	F
3,3-DIMETHYLHEXANE	F
1-ETHYNYLOXY-OCTADICANE	F
OCTANOIC ACID	260 (1)
HEXADECANOIC ACID	1000 (1)
1-HEXADECENE	1350 (1)
TETRAMETHYLHEXANE	200 (1)
BUTYL-2-METHYLPROPYLPHTHALATE	F
1-ETHENYLOXY-OCTADICANE	F

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-36

PARAMETER	DEPTH (IN FEET) 9.0-10.5
UNDECANE	F
3,3-DIMETHYLHEXANE	F
1-ETHYNYLOXY-OCTADECANE	F
OCTANOIC ACID	225
HEXADECANOIC ACID	F
1-HEXADECENE	F
TETRAMETHYLHEXANE	F
BUTYL-2-METHYLPROPYLPHTHALATE	F
1-ETHENYLOXY-OCTADECANE	F

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)
NOTE: (1) ESTIMATED CONCENTRATION
BURIAL GROUND B
SOIL BORING GW-37

	DEPTH (IN FEET)
PARAMETER	7.5-9.0
UNDECANE	F
3,3-DIMETHYLHEXANE	250 (1)
1-ETHYNYLOXY-OCTADECANE	F
OCTANOIC ACID	300 (1)
HEXADECANOIC ACID	F
1-HEXADECENE	F
TETRAMETHYLHEXANE	F
BUTYL-2-METHYLPROPYLPHTHALATE	F
1-ETHENYLOXY-OCTADECANE	900 (1)

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)
NOTE: (1) ESTIMATED CONCENTRATION
BURIAL GROUND B
SOIL BORING GW-38

	DEPTH (IN FEET)
PARAMETER	10.5-12.0
UNDECANE	F
3,3-DIMETHYLHEXANE	F
1-ETHYNYLOXY-OCTADECANE	1600(1)
OCTANOIC ACID	F
HEXADECANOIC ACID	1600(1)
1-HEXADECENE	F
TETRAMETHYLHEXANE	F
BUTYL-2-METHYLPROPYLPHTHALATE	4300(1)
1-ETHENYLOXY-OCTADECANE	F

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
OIL LANDFARM
SOIL BORING GW-5

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 2.0-3.1	3.5-5.0	9.5-11.0	11.0-12.5
ACENAPHTHENE	<1	3.9	N	N
ACENAPHTHYLENE	N	N	N	N
ANTHRACENE	N	<10	N	N
BENZIDINE	N	N	N	N
BENZO(A)ANTHRACENE	11	52	N	N
BENZO(A)PYRENE	13	52	N	N
3,4-BENZOFLUORANTHENE(1)	28	170	N	N
BENZO(GHI)PERYLENE	11	45	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	1.4	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N
CHRYSENE	11	52	N	N
DIBENZO(A,H)ANTHRACENE	3.2	18	N	N
1,2-DICHLOROBENZENE	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N
FLUORANTHENE	20	79	N	N
FLUORENE	<1	4.7	N	N
HEXACHLOROBENZENE	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N
HEXACHLOROETHANE	N	N	N	N
IDENO(1,2,3-CD)PYRENE	11	110	N	N
ISOPHORONE	N	N	N	N
NAPHTHALENE	N	N	N	N
NITROBENZENE	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N
PHENANTHRENE	12	73	N	N
PYRENE	17	78	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
OIL LANDFARM
SOIL BORING GW-10

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	10.5-12.0
ACENAPHTHENE	N
ACENAPHTHYLENE	N
ANTHRACENE	N
BENZIDINE	N
BENZO(A)ANTHRACENE	N
BENZO(A)PYRENE	N
3,4-BENZOFLUORANTHENE(1)	N
BENZO(GHI)PERYLENE	N
BIS(2-CHLOROETHOXY)METHANE	N
BIS(2-CHLOROETHYL)ETHER	N
BIS(2-CHLOROISOPROPYL)ETHER	N
BIS(2-ETHYLHEXYL)PHTHALATE	N
4-BROMOPHENYL PHENYL ETHER	N
BUTYL BENZYLPHTHALATE	N
2-CHLORONAPHTHALENE	N
4-CHLORO-PHENYL PHENYL ETHER	N
CHRYSENE	N
DIBENZO(A,H)ANTHRACENE	N
1,2-DICHLOROBENZENE	N
1,3-DICHLOROBENZENE	N
1,4-DICHLOROBENZENE	N
3,3'-DICHLOROBENZIDINE	N
DIETHYLPHTHALATE	N
DIMETHYLPHTHALATE	N
DI-N-BUTYLPHTHALATE	N
2,4-DINITROTOLUENE	N
2,6-DINITROTOLUENE	N
DI-N-OCTYLPHTHALATE	N
1,2-DIPHENYLHYDRAZINE(2)	N
FLUORANTHENE	N
FLUORENE	N
HEXACHLOROBENZENE	N
HEXACHLOROBUTADIENE	N
HEXACHLOROCYCLOPENTADIENE	N
HEXACHLOROETHANE	N
IDENO(1,2,3-CD)PYRENE	N
ISOPHORONE	N
NAPHTHALENE	N
NITROBENZENE	N
N-NITROSODIMETHYLAMINE	N
N-NITROSODI-N-PROPYLAMINE	N
N-NITROSODIPHENYLAMINE(3)	N
PHENANTHRENE	N
PYRENE	N
1,2,4-TRICHLOROBENZENE	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
OIL LANDFARM
SOIL BORING GW-11

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	8.0-9.5
ACENAPHTHENE	N
ACENAPHTHYLENE	N
ANTHRACENE	N
BENZIDINE	N
BENZO(A)ANTHRACENE	N
BENZO(A)PYRENE	N
3,4-BENZOFLUORANTHENE(1)	N
BENZO(GHI)PERYLENE	N
BIS(2-CHLOROETHOXY)METHANE	N
BIS(2-CHLOROETHYL)ETHER	N
BIS(2-CHLOROISOPROPYL)ETHER	N
BIS(2-ETHYLHEXYL)PHTHALATE	N
4-BROMOPHENYL PHENYL ETHER	N
BUTYL BENZYLPHTHALATE	N
2-CHLORONAPHTHALENE	N
4-CHLORO-PHENYL PHENYL ETHER	N
CHRYSENE	N
DIBENZO(A,H)ANTHRACENE	N
1,2-DICHLOROBENZENE	N
1,3-DICHLOROBENZENE	N
1,4-DICHLOROBENZENE	N
3,3'-DICHLOROBENZIDINE	N
DIETHYLPHTHALATE	N
DIMETHYLPHTHALATE	N
DI-N-BUTYLPHTHALATE	N
2,4-DINITROTOLUENE	N
2,6-DINITROTOLUENE	N
DI-N-OCTYLPHTHALATE	N
1,2-DIPHENYLHYDRAZINE(2)	N
FLUORANTHENE	N
FLUORENE	N
HEXACHLOROBENZENE	N
HEXACHLOROBUTADIENE	N
HEXACHLOROCYCLOPENTADIENE	N
HEXACHLOROETHANE	N
INDENO(1,2,3-CD)PYRENE	N
ISOPHORONE	N
NAPHTHALENE	N
NITROBENZENE	N
N-NITROSODIMETHYLAMINE	N
N-NITROSODI-N-PROPYLAMINE	N
N-NITROSODIPHENYLAMINE(3)	N
PHENANTHRENE	N
PYRENE	N
1,2,4-TRICHLOROBENZENE	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT
UNIT=PPM (PARTS PER MILLION)
OIL LANDFARM

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 1	2	3	4	5	6	7	8	9	10	13
ACENAPHTHENE	N	N	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	3	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	3	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	3	N	N	N	N	N	N	N	N
PYRENE	N	N	3	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT
UNIT=PPM (PARTS PER MILLION)
OIL LANDFARM

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 1	2	3	4	5	6	7	8	9	10	13
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-14

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5
ACENAPHTHENE	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	11	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N
INDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-15

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	4.1-6.4	6.5-8.0
ACENAPHTHENE	N	N	N	N
ACENAPHTHYLENE	N	N	N	N
ANTHRACENE	N	N	N	N
BENZIDINE	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N
BENZO(A)PYRENE	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N
BIS(2-CHLOROETHYL) ETHER	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N
CHRYSENE	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N
FLUORANTHENE	N	N	N	N
FLUORENE	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N
HEXACHLOROETHANE	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N
ISOPHORONE	N	N	N	N
NAPHTHALENE	N	N	N	N
NITROBENZENE	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N
PHENANTHRENE	N	N	N	N
PYRENE	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-16

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: 0.5-11.0 FT. SAMPLED 10/3/83 --- 11.0-17.0 FT. SAMPLED 10/4/83
NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
ACENAPETHENE	N	N	N	N	N	N	N	N	N	N	N
ACENAPETHYLENE	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-17

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: 0.0-7.5 FT. SAMPLED 9/27/83 --- 7.5-21.0 FT. SAMPLED 9/30/83
NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0	18.0-19.5	19.5-21.0
ACENAPHTHENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-18

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0	17.0-18.5	18.5-20.0	20.0-21.5
ACENAPHTHENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
INDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-20

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 1.0-2.5	2.5-4.0	4.0-5.5	5.5-7.0	7.0-8.5	8.5-10.0
ACENAPHTHENE	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-21

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0
ACENAPHTHENE	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-24

12:08 TUESDAY, FEBRUARY 23, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
ACENAPETHENE	N	N	N	N	N	N	N	N	N	N	N
ACENAPETHYLENE	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	19	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
INDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-27

12:08 TUESDAY, FEBRUARY 29, 1984

NOTE: 0.0-12.0 FT. SAMPLED 10/11/83 --- 12.0-18.0 FT. SAMPLED 10/12/83
NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS'
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0
ACENAPHTHENE	N	N	N	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-29

12:00 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
ACENAPHTHENE	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	6	3	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-39

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5
ACENAPHTHENE	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND A
SOIL BORING GW-45

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMIINE

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	9.0-10.5
ACENAPHTHENE	N
ACENAPHTHYLENE	N
ANTHRACENE	N
BENZIDINE	N
BENZO(A)ANTHRACENE	N
BENZO(A)PYRENE	N
3,4-BENZOFLUORANTHENE(1)	N
BENZO(GHI)PERYLENE	N
BIS(2-CHLOROETHOXY)METHANE	N
BIS(2-CHLOROETHYL)ETHER	N
BIS(2-CHLOROISOPROPYL)ETHER	N
BIS(2-ETHYLHEXYL)PHTHALATE	N
4-BROMOPHENYL PHENYL ETHER	N
BUTYL BENZYLPHTHALATE	N
2-CHLORONAPHTHALENE	N
4-CHLORO-PHENYL PHENYL ETHER	N
CHRYSENE	N
DIBENZO(A,H)ANTHRACENE	N
1,2-DICHLOROBENZENE	N
1,3-DICHLOROBENZENE	N
1,4-DICHLOROBENZENE	N
3,3'-DICHLOROBENZIDINE	N
DIETHYLPHTHALATE	N
DIMETHYLPHTHALATE	N
DI-N-BUTYLPHTHALATE	N
2,4-DINITROTOLUENE	N
2,6-DINITROTOLUENE	N
DI-N-OCTYLPHTHALATE	N
1,2-DIPHENYLHYDRAZINE(2)	N
FLUORANTHENE	N
FLUORENE	N
HEXACHLOROBENZENE	N
HEXACHLOROBUTADIENE	N
HEXACHLOROCYCLOPENTADIENE	N
HEXACHLOROETHANE	N
IDENO(1,2,3-CD)PYRENE	N
ISOPHORONE	N
NAPHTHALENE	N
NITROBENZENE	N
N-NITROSODIMETHYLAMINE	N
N-NITROSODI-N-PROPYLAMINE	N
N-NITROSODIPHENYLAMINE(3)	N
PHENANTHRENE	N
PYRENE	N
1,2,4-TRICHLOROBENZENE	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B

BASE-NEUTRAL EXTRACTABLE ORGANIC	SOIL BORING NUMBER DEPTH (IN FEET) GW-31 0.0-1.5	GW-31 15.0-16.5	GW-33 7.5-9.0	GW-35 9.0-9.5	GW-36 9.0-10.5	GW-37 7.5-9.0	GW-38 10.5-12.0
ACENAPHTHENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BENZIDINE	<*10	<*10	<*10	<*10	<*10	<*10	<*10
1,2,4-TRICHLOROBENZENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
HEXACHLOROBENZENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
HEXACHLOROETHANE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BIS(2-CHLOROETHYL) ETHER	<*1	<*1	<*1	<*1	<*1	<*1	<*1
2-CHLORONAPHTHALENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
1,2-DICHLOROBENZENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
1,3-DICHLOROBENZENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
1,4-DICHLOROBENZENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
3,3'-DICHLORODENZIDINE	<*10	<*10	<*10	<*10	<*10	<*10	<*10
2,4-DINITROTOLUENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
2,6-DINITROTOLUENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
2,2-DIPHENYLHYDRAZINE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
(AS AZOBENZENE)	<*1	<*1	<*1	<*1	<*1	<*1	<*1
FLUORANTHENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1	<*1	<*1	<*1	<*1	<*1	<*1
4-BROMOPHENYL PHENYL ETHER	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BIS(2-CHLOROETHOXY)METHANE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
HEXACHLOROBUTADIENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
HEXACHLOROCYCLOPENTADIENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
ISOPHORONE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
NAPHTHALENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
NITROBENZENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
N-NITROSODIMETHYLAMINE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
N-NITROSODIPHENYLAMINE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
N-NITROSODI-N-PROPYLAMINE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BIS(2-ETHYLHEXYL) PHTHALATE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BUTYL BENZYL PHTHALATE	<*1	<*1	<*1	4400	4500	5300	<*1
DI-N-BUTYL PHTHALATE	<*1	<*1	<*1	<*1	180	<*1	<*1
DI-N-OCTYL PHTHALATE	<*1	<*1	<*1	<*1	140	<*1	<*1
DIETHYL PHTHALATE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
DIMETHYL PHTHALATE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BENZO(A)ANTHRACENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BENZO(A)PYRENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BENZO(B)FLUORANTHENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BENZO(K)FLUORANTHENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
CHRYSENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
ACENAPHTHYLENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
ANTHRACENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
BENZO(GHI)PERYLENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
FLUORENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
PHENANTHRENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
DIBENZO(A,H)ANTHRACENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1
INDENO(1,2,3-CD)PYRENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B

	SOIL BORING NUMBER DEPTH (IN FEET)						
BASE-NEUTRAL EXTRACTABLE ORGANIC	GW-31 0.0-1.5	GW-31 15.0-16.5	GW-33 7.5-9.0	GW-35 9.0-9.5	GW-36 9.0-10.5	GW-37 7.5-9.0	GW-38 10.5-12.0
PYRENE	<*1	<*1	<*1	<*1	<*1	<*1	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-31

	DEPTH (IN FEET)	
BASE-NEUTRAL EXTRACTABLE ORGANIC	0.0-1.5	15.0-16.5
ACENAPHTHENE	<*1	<*1
BENZIDINE	<*10	<*10
1,2,4-TRICHLOROBENZENE	<*1	<*1
HEXACHLOROBENZENE	<*1	<*1
HEXACHLOROETHANE	<*1	<*1
BIS(2-CHLOROETHYL)ETHER	<*1	<*1
2-CHLORONAPHTHALENE	<*1	<*1
1,2-DICHLOROBENZENE	<*1	<*1
1,3-DICHLOROBENZENE	<*1	<*1
1,4-DICHLOROBENZENE	<*1	<*1
3,3'-DICHLOROBENZIDINE	<*10	<*10
2,4-DINITROTOLUENE	<*1	<*1
2,6-DINITROTOLUENE	<*1	<*1
2,2-DIPHENYLHYDRAZINE	<*1	<*1
(AS AZOBENZENE)	<*1	<*1
FLUORANTHENE	<*1	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1	<*1
4-BROMOPHENYL PHENYL ETHER	<*1	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1	<*1
BIS(2-CHLOROETHOXY)METHANE	<*1	<*1
HEXACHLOROBUTADIENE	<*1	<*1
HEXACHLOROCYCLOPENTADIENE	<*1	<*1
ISOPHORONE	<*1	<*1
NAPHTHALENE	<*1	<*1
NITROBENZENE	<*1	<*1
N-NITROSODIMETHYLAMINE	<*1	<*1
N-NITROSODIPHENYLAMINE	<*1	<*1
N-NITROSODI-N-PROPYLAMINE	<*1	<*1
BIS(2-ETHYLHEXYL)PHTHALATE	<*1	<*1
BUTYL BENZYL PHTHALATE	<*1	<*1
DI-N-BUTYL PHTHALATE	<*1	<*1
DI-N-OCTYL PHTHALATE	<*1	<*1
DIETHYL PHTHALATE	<*1	<*1
DIMETHYL PHTHALATE	<*1	<*1
BENZO(A)ANTHRACENE	<*1	<*1
BENZO(A)PYRENE	<*1	<*1
BENZO(B)FLUORANTHENE	<*1	<*1
BENZO(K)FLUORANTHENE	<*1	<*1
CHRYSENE	<*1	<*1
ACENAPHTHYLENE	<*1	<*1
ANTHRACENE	<*1	<*1
BENZO(GHI)PERYLENE	<*1	<*1
FLUORENE	<*1	<*1
PHENANTHRENE	<*1	<*1
DIBENZO(A,H)ANTHRACENE	<*1	<*1
INDENO(1,2,3-CD)PYRENE	<*1	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-31

	DEPTH (IN FEET)	
BASE-NEUTRAL EXTRACTABLE ORGANIC	0.0-1.5	15.0-16.5
PYRENE	<*1	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-33

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	7.5-9.0
ACENAPHTHENE	<*1
BENZIDINE	<*10
1,2,4-TRICHLOROBENZENE	<*1
HEXACHLOROBENZENE	<*1
HEXACHLOROETHANE	<*1
BIS(2-CHLOROETHYL) ETHER	<*1
2-CHLORONAPHTHALENE	<*1
1,2-DICHLOROBENZENE	<*1
1,3-DICHLOROBENZENE	<*1
1,4-DICHLOROBENZENE	<*1
3,3'-DICHLOROBENZIDINE	<*10
2,4-DINITROTOLUENE	<*1
2,6-DINITROTOLUENE	<*1
2,2-DIPHENYLHYDRAZINE	<*1
(AS AZOBENZENE)	<*1
FLUORANTHENE	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1
4-BROMOPHENYL PHENYL ETHER	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1
BIS(2-CHLOROETHOXY) METHANE	<*1
HEXACHLOROBUTADIENE	<*1
HEXACHLOROCYCLOPENTADIENE	<*1
ISOPHORONE	<*1
NAPHTHALENE	<*1
NITROBENZENE	<*1
N-NITROSODIMETHYLAMINE	<*1
N-NITROSODIPHENYLAMINE	<*1
N-NITROSODI-N-PROPYLAMINE	<*1
BIS(2-ETHYLHEXYL) PHTHALATE	<*1
BUTYL BENZYL PHTHALATE	<*1
DI-N-BUTYL PHTHALATE	<*1
DI-N-OCTYL PHTHALATE	<*1
DIETHYL PHTHALATE	<*1
DIMETHYL PHTHALATE	<*1
BENZO(A) ANTHRACENE	<*1
BENZO(A) PYRENE	<*1
BENZO(B) FLUORANTHENE	<*1
BENZO(K) FLUORANTHENE	<*1
CHRYSENE	<*1
ACENAPHTHYLENE	<*1
ANTHRACENE	<*1
BENZO(GHI) PERYLENE	<*1
FLUORENE	<*1
PHENANTHRENE	<*1
DIBENZO(A,H) ANTHRACENE	<*1
INDENO(1,2,3-CD) PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-33

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	7.5-9.0
PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-35

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	9.0-9.5
ACENAPHTHENE	<*1
BENZIDINE	<*10
1,2,4-TRICHLOROBENZENE	<*1
HEXACHLOROBENZENE	<*1
HEXACHLOROETHANE	<*1
BIS(2-CHLOROETHYL) ETHER	<*1
2-CHLORONAPHTHALENE	<*1
1,2-DICHLOROBENZENE	<*1
1,3-DICHLOROBENZENE	<*1
1,4-DICHLOROBENZENE	<*1
3,3'-DICHLOROBENZIDINE	<*10
2,4-DINITROTOLUENE	<*1
2,6-DINITROTOLUENE	<*1
2,2-DIPHENYLHYDRAZINE	<*1
(AS AZOBENZENE)	<*1
FLUORANTHENE	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1
4-BROMOPHENYL PHENYL ETHER	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1
BIS(2-CHLOROETHOXY) METHANE	<*1
HEXACHLOROBUTADIENE	<*1
HEXACHLOROCYCLOPENTADIENE	<*1
ISOPHORONE	<*1
NAPHTHALENE	<*1
NITROBENZENE	<*1
N-NITROSODIMETHYLAMINE	<*1
N-NITROSODIPHENYLAMINE	<*1
N-NITROSODI-N-PROPYLAMINE	<*1
BIS(2-ETHYLHEXYL) PHTHALATE	<*1
BUTYL BENZYL PHTHALATE	4400
DI-N-BUTYL PHTHALATE	<*1
DI-N-OCTYL PHTHALATE	<*1
DIETHYL PHTHALATE	<*1
DIMETHYL PHTHALATE	<*1
BENZO(A) ANTHRACENE	<*1
BENZO(A) PYRENE	<*1
BENZO(B) FLUORANTHENE	<*1
BENZO(K) FLUORANTHENE	<*1
CHRYSENE	<*1
ACENAPHTHYLENE	<*1
ANTHRACENE	<*1
BENZO(GHI) PERYLENE	<*1
FLUORENE	<*1
PHENANTHRENE	<*1
DIBENZO(A,H) ANTHRACENE	<*1
INDENO(1,2,3-CD) PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-35

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	9.0-9.5
PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=EPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-36

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	9.0-10.5
ACENAPHTHENE	<*1
BENZIDINE	<*10
1,2,4-TRICHLOROBENZENE	<*1
HEXACHLOROBENZENE	<*1
HEXACHLOROETHANE	<*1
BIS(2-CHLOROETHYL) ETHER	<*1
2-CHLORONAPHTHALENE	<*1
1,2-DICHLOROBENZENE	<*1
1,3-DICHLOROBENZENE	<*1
1,4-DICHLOROBENZENE	<*1
3,3'-DICHLOROBENZIDINE	<*10
2,4-DINITROTOLUENE	<*1
2,6-DINITROTOLUENE	<*1
2,2-DIPHENYLHYDRAZINE	<*1
(AS AZOBENZENE)	<*1
FLUORANTHENE	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1
4-BROMOPHENYL PHENYL ETHER	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1
BIS(2-CHLOROETHOXY) METHANE	<*1
HEXACHLOROBUTADIENE	<*1
HEXACHLOROCYCLOPENTADIENE	<*1
ISOPHORONE	<*1
NAPHTHALENE	<*1
NITROBENZENE	<*1
N-NITROSODIMETHYLAMINE	<*1
N-NITROSODIPHENYLAMINE	<*1
N-NITROSODI-N-PROPYLAMINE	<*1
BIS(2-ETHYLHEXYL) PHTHALATE	<*1
BUTYL BENZYL PHTHALATE	4500
DI-N-BUTYL PHTHALATE	100
DI-N-OCTYL PHTHALATE	140
DIETHYL PHTHALATE	<*1
DIMETHYL PHTHALATE	<*1
BENZO(A) ANTHRACENE	<*1
BENZO(A) PYRENE	<*1
BENZO(B) FLUORANTHENE	<*1
BENZO(K) FLUORANTHENE	<*1
CHRYSENE	<*1
ACENAPHTHYLENE	<*1
ANTHRACENE	<*1
BENZO(GHI) PERYLENE	<*1
FLUORENE	<*1
PHENANTHRENE	<*1
DIBENZO(A,H) ANTHRACENE	<*1
INDENO(1,2,3-CD) PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-36

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	9.0-10.5
PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-37

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	7.5-9.0
ACENAPHTHENE	<*1
BENZIDINE	<*10
1,2,4-TRICHLOROBENZENE	<*1
HEXACHLOROBENZENE	<*1
HEXACHLOROETHANE	<*1
BIS(2-CHLOROETHYL) ETHER	<*1
2-CHLORONAPHTHALENE	<*1
1,2-DICHLOROBENZENE	<*1
1,3-DICHLOROBENZENE	<*1
1,4-DICHLOROBENZENE	<*1
3,3'-DICHLOROBENZIDINE	<*10
2,4-DINITROTOLUENE	<*1
2,6-DINITROTOLUENE	<*1
2,2-DIPHENYLHYDRAZINE	<*1
(AS AZOBENZENE)	<*1
FLUORANTHENE	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1
4-BROMOPHENYL PHENYL ETHER	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1
BIS(2-CHLOROETHOXY) METHANE	<*1
HEXACHLOROBUTADIENE	<*1
HEXACHLOROCYCLOPENTADIENE	<*1
ISOPHORONE	<*1
NAPHTHALENE	<*1
NITROBENZENE	<*1
N-NITROSODIMETHYLAMINE	<*1
N-NITROSODIPHENYLAMINE	<*1
N-NITROSODI-N-PROPYLAMINE	<*1
BIS(2-ETHYLHEXYL) PHTHALATE	<*1
BUTYL BENZYL PHTHALATE	5300
DI-N-BUTYL PHTHALATE	<*1
DI-N-OCTYL PHTHALATE	<*1
DIETHYL PHTHALATE	<*1
DIMETHYL PHTHALATE	<*1
BENZO(A) ANTHRACENE	<*1
BENZO(A) PYRENE	<*1
BENZO(B) FLUORANTHENE	<*1
BENZO(K) FLUORANTHENE	<*1
CHRYSENE	<*1
ACENAPHTHYLENE	<*1
ANTHRACENE	<*1
BENZO(GHI) PERYLENE	<*1
FLUORENE	<*1
PHENANTHRENE	<*1
DIBENZO(A,H) ANTHRACENE	<*1
INDENO(1,2,3-CD) PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-37

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	7.5-9.0
PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-39

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	10.5-12.0
ACENAPHTHENE	<*1
BENZIDINE	<*10
1,2,4-TRICHLOROBENZENE	<*1
HEXACHLOROBENZENE	<*1
HEXACHLOROETHANE	<*1
BIS(2-CHLOROETHYL)ETHER	<*1
2-CHLORONAPHTHALENE	<*1
1,2-DICHLOROBENZENE	<*1
1,3-DICHLOROBENZENE	<*1
1,4-DICHLOROBENZENE	<*1
3,3'-DICHLOROBENZIDINE	<*10
2,4-DINITROTOLUENE	<*1
2,6-DINITROTOLUENE	<*1
2,2-DIPHENYLHYDRAZINE	<*1
(AS AZOBENZENE)	<*1
FLUORANTHENE	<*1
4-CHLOROPHENYL PHENYL ETHER	<*1
4-BROMOPHENYL PHENYL ETHER	<*1
BIS(2-CHLOROISOPROPYL) ETHER	<*1
BIS(2-CHLOROETHOXY)METHANE	<*1
HEXACHLOROBUTADIENE	<*1
HEXACHLOROCYCLOPENTADIENE	<*1
ISOPHORONE	<*1
NAPHTHALENE	<*1
NITROBENZENE	<*1
N-NITROSODIMETHYLAMINE	<*1
N-NITROSODIPHENYLAMINE	<*1
N-NITROSODI-N-PROPYLAMINE	<*1
BIS(2-ETHYLHEXYL)PHTHALATE	<*1
BUTYL BENZYL PHTHALATE	<*1
DI-N-BUTYL PHTHALATE	<*1
DI-N-OCTYL PHTHALATE	<*1
DIETHYL PHTHALATE	<*1
DIMETHYL PHTHALATE	<*1
BENZO(A)ANTHRACENE	<*1
BENZO(A)PYRENE	<*1
BENZO(B)FLUORANTHENE	<*1
BENZO(K)FLUORANTHENE	<*1
CHRYSENE	<*1
ACENAPHTHYLENE	<*1
ANTHRACENE	<*1
BENZO(GHI)PERYLENE	<*1
FLUORENE	<*1
PHENANTHRENE	<*1
DIBENZO(A,H)ANTHRACENE	<*1
INDENO(1,2,3-CD)PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SOIL

UNIT=PPB (PARTS PER BILLION)

BURIAL GROUND B
SOIL BORING GW-38

	DEPTH (IN FEET)
BASE-NEUTRAL EXTRACTABLE ORGANIC	10.5-12.0
PYRENE	<*1

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND - BACKGROUND
SOIL BORING GW-40

12:08 TUESDAY, FEBRUARY 28, 1989

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0
ACENAPHTHENE	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND - BACKGROUND
SOIL BORING GW-41

NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.0
ACENAPHTHENE	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N
BENZO(A)ANTHRACENE	N	N	N	N	N	N	N
BENZO(A)PYRENE	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N
BENZO(GHI)PERYLENE	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL)ETHER	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL)ETHER	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N
DIBENZO(A,H)ANTHRACENE	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N
INDENO(1,2,3-CD)PYRENE	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTABLE ORGANIC PRIORITY POLLUTANTS IN SOIL
UNIT=PPM (PARTS PER MILLION)
BURIAL GROUND - BACKGROUND
SOIL BORING GW-42

12:08 TUESDAY, FEBRUARY 28, 1984

NOTE: 0.0-7.5 FT. SAMPLED 9/28/83 --- 7.5-16.5 FT. SAMPLED 9/29/83
NOTE: (1) AND/OR BENZO(K)FLUORANTHENE - ISOMERIC PAIRS
NOTE: (2) DETECTED AS AZOBENZENE
NOTE: (3) DETECTED AS DIPHENYLAMINE

BASE-NEUTRAL EXTRACTABLE ORGANIC	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5
ACENAPETHENE	N	N	N	N	N	N	N	N	N	N	N
ACENAPETHYLENE	N	N	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A) ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
BENZO(A) PYRENE	N	N	N	N	N	N	N	N	N	N	N
3,4-BENZOFLUORANTHENE(1)	N	N	N	N	N	N	N	N	N	N	N
BENZO(GHI) PERYLENE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY) METHANE	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL) ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL) ETHER	N	N	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL) PHTHALATE	N	N	N	N	N	N	N	N	N	N	N
4-BROMOPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
BUTYL BENZYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
4-CHLORO-PHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N	N	N
DIBENZO(A,H) ANTHRACENE	N	N	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N	N	N
DI-N-OCTYLPHTHALATE	N	N	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE(2)	N	N	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N
IDENO(1,2,3-CD) PYRENE	N	N	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIMETHYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE(3)	N	N	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N	N	N
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	N	N	N	N	N	N	N	N	N	N	N

PCB
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-5

	DEPTH (IN FEET)						
PCB	2.0-3.1	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5
ARCCLOR 1242/1248 AND/OR 1016	<0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ARCCLOR 1254	<0.2	0.3	<0.05	<0.05	0.07	<0.05	<0.05
ARCCLOR 1260	2.8	1.3	<0.05	<0.05	<0.05	<0.05	<0.05

PCB
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-8

	DEPTH (IN FEET)
PCB	14.0-15.5
AROCLOR 1242/1248 AND/OR 1016	<0.05
AROCLOR 1254	<0.05
AROCLOR 1260	<0.05

PCB
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-11

DEPTH (IN FEET)	
PCB	8.0-9.5
AROCLOR 1242/1248 AND/OR 1016	<0.05
AROCLOR 1254	<0.05
AROCLOR 1260	<0.05

PCB
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-44

	DEPTH (IN FEET)						
PCB	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
AROCLOR 1242/1248 AND/OR 1016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
AROCLOR 1254	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
AROCLOR 1260	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

PCB
IN SEDIMENT

UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM

NOTE: (1) HIGHER DETECTION LIMIT DUE TO INTERFERENCES

PCB	STATION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
AROCLOR 1242/1248 AND/OR 1016	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.8(1)	<0.05	<0.05	<0.05	<0.05	<0.05
AROCLOR 1254	<0.05	<0.05	0.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1(1)	<0.05	<0.05	<0.05	<0.05	<0.05
AROCLOR 1260	<0.05	<0.05	0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.1	<0.05	<0.05	<0.05	<0.05	<0.05

PCB
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-53

DEPTH (IN FEET)	
PCB	0.0-1.5
AROCLOR 1242/1248 AND/OR 1016	<0.05
AROCLOR 1254	<0.05
AROCLOR 1260	<0.05

PCB
SURFACE SOIL COMPOSITES

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
NOTE: (1) HIGHER DETECTION LIMIT DUE TO INTERFERENCES

	LOCATION				
PCB	S-3A	S-4A	S-5A	S-6A	S-7A
AROCLOR 1242/1248 AND/OR 1016	<0.05	<0.05	<0.06 (1)	<1.6	<0.05
AROCLOR 1254	0.07	0.36	0.19	11.0	<0.05
AROCLOR 1260	<0.05	0.06	0.13	1.7	<0.05

PCB
IN SEDIMENT

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A

PCB	STATION 1A	2A	3A	4A	5A	7A	8A	9A	11A	12A	13A
AROCLOR 1242/1248 AND/OR 1016	<0.05	<0.05	<0.05	<0.05	<0.05	2.1	<0.05	140	220	2.8	<4
AROCLOR 1254	<0.05	<0.05	<0.05	0.11	<0.05	3.1	<0.05	95	90	4.6	23
AROCLOR 1260	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	<0.05	<20	<30	0.8	5.2

PCB	14A	15A	17A	20A	21A	22A	24A	25A	26A
AROCLOR 1242/1248 AND/OR 1016	<0.05	<0.05	6.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
AROCLOR 1254	<0.05	2.7	1.7	<0.05	<0.05	<0.05	<0.05	0.05	0.13
AROCLOR 1260	<0.05	0.84	<0.4	<0.05	<0.05	<0.05	<0.05	<0.05	0.08

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY 12:48 MONDAY, FEBRUARY 27, 1984 1
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-5
NOTE: (1) HIGHER DETECTION LIMITS DUE TO SAMPLE SIZE

	DEPTH (IN FEET)			
METAL	2.0-3.1	3.5-5.0	9.5-11.0	11.0-12.5
ALUMINUM	36000	25000	27000	39000
ANTIMONY	40	50	20	20
ARSENIC	80	70	70	96
BARIUM	340	310	220	220
BERYLLIUM	4	4	2	3
BORON	4	7	4	8
CADMIUM	10	12	3.2	4
CALCIUM	13000	18000	2800	4000
CHROMIUM	100	98	31	54
COBALT	17	21	14	16
COPPER	1700	500	13	<1
IRON	34000	52000	24000	27000
LEAD	320	560	70	70
LITHIUM	80	70	50	30
MAGNESIUM	6000	4900	4800	8000
MANGANESE	710	740	890	360
MOLYBDENUM	<4(1)	7	<2	<2
NICKEL	100	110	26	37
SELENIUM	<40	<20	<20	<20
SILICON	580	250	2200	3000
SILVER	6	41	<1	<1
SODIUM	2100	2200	1300	630
STRONTIUM	35	37	10	160
THALLIUM	<100(1)	<50	<50	<50
TIN	<100(1)	<50	50	50
TITANIUM	900	640	180	180
VANADIUM	38	30	22	23
ZINC	1000	1500	47	49
URANIUM	<400(1)	<200	<200	<200
MERCURY	*	*	*	*

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY 12:48 MONDAY, FEBRUARY 27, 1984 2
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-10

DEPTH (IN FEET)	
METAL	10.5-12.0
ALUMINUM	44000
ANTIMONY	<10
ARSENIC	130
BARIUM	660
BERYLLIUM	2
BORON	16
CADMIUM	4.3
CALCIUM	4500
CHROMIUM	32
COBALT	31
COPPER	2
IRON	16000
LEAD	57
LITHIUM	30
MAGNESIUM	4800
MANGANESE	5100
MOLYBDENUM	<2
NICKEL	30
SELENIUM	<20
SILICON	1400
SILVER	<1
SODIUM	3100
STRONTIUM	27
THALLIUM	<50
TIN	50
TITANIUM	150
VANADIUM	30
ZINC	34
URANIUM	<200
MERCURY	*

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY 12:48 MONDAY, FEBRUARY 27, 1984 3
SOIL
UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM
SOIL BORING GW-11

DEPTH (IN FEET)	
METAL	8.0-9.5
ALUMINUM	47000
ANTIMONY	30
ARSENIC	100
BARIUM	220
BERYLLIUM	4
BORON	100
CADMIUM	7.2
CALCIUM	3800
CHROMIUM	40
COBALT	26
COPPER	7
IRON	39000
LEAD	90
LITHIUM	50
MAGNESIUM	3700
MANGANESE	2500
MOLYBDENUM	<2
NICKEL	41
SELENIUM	<20
SILICON	1600
SILVER	<1
SODIUM	320
STRONTIUM	12
THALLIUM	<50
TIN	80
TITANIUM	310
VANADIUM	36
ZINC	52
URANIUM	<200
MERCURY	*

METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS & MERCURY
IN SEDIMENT

9:00 WEDNESDAY, FEBRUARY 29, 1984 1

UNIT=PPM (PARTS PER MILLION)

OIL LANDFARM

PARAMETER	STATION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ALUMINUM	9700	28300	10200	17500	22000	14700	58900	14400	29000	28000	39000	46000	42200	56000	31000
ANTIMONY	7	19	12	14	16	4	24	<10	20	<10	10	20	42	20	20
ARSENIC	25	81	31	55	54	46	166	38	95	76	110	120	121	150	90
BARIUM	129	87	513	121	141	87	208	136	162	103	190	210	200	230	200
BERYLLIUM	<1	<1	<1	<1	<1	<1	2	<1	<1	7.3	2	4	2	3	3
BORON	<2	7	3	<2	<2	<2	8	<2	5	6	<2	<2	22	10	88
CADMIUM	1	3	3	2	3	6	6	2	4	2.7	3.2	3.6	5	7.7	6.4
CALCIUM	750	5500	2740	1140	913	1700	2590	320	11100	6600	3000	8700	2800	2600	3400
CHROMIUM	10	39	21	20	26	12	49	13	31	30	36	41	65	46	36
COBALT	5	<10	15	11	9	16	19	<10	13	<10	11	11	35	34	23
COPPER	1	7	102	16	3	10	23	2	2	7	4	9	8	16	6
IRON	6100	26500	15100	15200	18200	8700	30700	9400	29400	17200	26000	25000	45400	32000	35000
LEAD	19	57	138	54	64	33	192	29	67	55	80	70	101	110	80
LITHIUM	25	26	18	20	43	20	65	24	42	32	50	40	72	70	50
MAGNESIUM	550	3800	1160	1520	1620	830	3900	800	7350	3540	3100	6300	5200	4000	3300
MANGANESE	430	244	3100	450	377	800	914	212	650	260	200	480	2300	1600	2200
MOLYBDENUM	<2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
NICKEL	14	12	34	11	21	57	48	7	13	10	15	16	32	47	37
SELENIUM	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
SILICON	12	619	78	240	302	87	2240	93	750	360	1400	240	1970	1900	1400
SILVER	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SODIUM	89	186	130	158	256	102	161	340	374	316	780	430	236	160	290
STRONTIUM	12	27	30	18	23	10	25	15	29	20	16	18	30	14	11
THALLIUM	<50	<50	<50	<50	21	<50	5	<50	<50	<50	<50	<50	<50	<50	<50
TIN	29	54	51	47	53	37	103	87	57	<50	60	60	153	50	70
TITANIUM	113	250	189	307	148	151	375	32	219	230	730	610	235	400	280
VANADIUM	10	34	14	21	24	85	70	14	27	23	40	39	42	48	32
ZINC	17	34	193	41	63	5	122	15	25	36	30	40	64	87	46
URANIUM	<200	<200	635	262	303	315	250	<200	<200	<200	<200	<200	<200	<200	<200
CYANIDE	<0.5	<0.5	<0.5	<0.5	<0.5	0.58	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PHENOLS	<0.05	0.16	0.1	0.04	0.05	0.04	0.05	0.1	0.25	0.63	0.2	0.05	<0.05	0.11	0.05
MERCURY	<0.05	6.7	60	7.5	2.7	<0.1	<0.2	<0.1	<0.1	0.2	<0.1	0.1	<0.2	0.1	0.1

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY 12:48 MONDAY, FEBRUARY 27, 1984 4
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-22

	DEPTH (IN FEET)				
METAL	0.0-1.5	1.5-3.0	4.5-6.0	6.0-7.5	7.5-9.0
ALUMINUM	*	*	*	*	*
ANTIMONY	*	*	*	*	*
ARSENIC	*	*	*	*	*
BARIUM	*	*	*	*	*
BERYLLIUM	*	*	*	*	*
BORON	*	*	*	*	*
CADMIUM	*	*	*	*	*
CALCIUM	*	*	*	*	*
CHROMIUM	*	*	*	*	*
COBALT	*	*	*	*	*
COPPER	*	*	*	*	*
IRON	*	*	*	*	*
LEAD	*	*	*	*	*
LITHIUM	*	*	*	*	*
MAGNESIUM	*	*	*	*	*
MANGANESE	*	*	*	*	*
MOLYBDENUM	*	*	*	*	*
NICKEL	*	*	*	*	*
SELENIUM	*	*	*	*	*
SILICON	*	*	*	*	*
SILVER	*	*	*	*	*
SODIUM	*	*	*	*	*
STRONTIUM	*	*	*	*	*
THALLIUM	*	*	*	*	*
TIN	*	*	*	*	*
TITANIUM	*	*	*	*	*
VANADIUM	*	*	*	*	*
ZINC	*	*	*	*	*
URANIUM	*	*	*	*	*
MERCURY	<0.1	0.54	<0.3	<0.2	<0.7

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY 12:48 MONDAY, FEBRUARY 27, 1984 5
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-27

	DEPTH (IN FEET)							
METAL	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0
ALUMINUM	*	*	*	*	*	*	*	*
ANTIMONY	*	*	*	*	*	*	*	*
ARSENIC	*	*	*	*	*	*	*	*
BARIUM	*	*	*	*	*	*	*	*
BERYLLIUM	*	*	*	*	*	*	*	*
BORON	*	*	*	*	*	*	*	*
CADMIUM	*	*	*	*	*	*	*	*
CALCIUM	*	*	*	*	*	*	*	*
CHROMIUM	*	*	*	*	*	*	*	*
COBALT	*	*	*	*	*	*	*	*
COPPER	*	*	*	*	*	*	*	*
IRON	*	*	*	*	*	*	*	*
LEAD	*	*	*	*	*	*	*	*
LITHIUM	*	*	*	*	*	*	*	*
MAGNESIUM	*	*	*	*	*	*	*	*
MANGANESE	*	*	*	*	*	*	*	*
MOLYBDENUM	*	*	*	*	*	*	*	*
NICKEL	*	*	*	*	*	*	*	*
SELENIUM	*	*	*	*	*	*	*	*
SILICON	*	*	*	*	*	*	*	*
SILVER	*	*	*	*	*	*	*	*
SODIUM	*	*	*	*	*	*	*	*
STRONTIUM	*	*	*	*	*	*	*	*
THALLIUM	*	*	*	*	*	*	*	*
TIN	*	*	*	*	*	*	*	*
TITANIUM	*	*	*	*	*	*	*	*
VANADIUM	*	*	*	*	*	*	*	*
ZINC	*	*	*	*	*	*	*	*
URANIUM	*	*	*	*	*	*	*	*
MERCURY	<0.5	0.18	<0.2	<0.2	<0.2	<0.1	<0.2	<0.1

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-28

	DEPTH (IN FEET)						
METAL	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
ALUMINUM	57200	53200	54700	56600	55100	57300	47800
ANTIMONY	22	19	27	23	23	30	26
ARSENIC	106	160	143	147	167	171	146
BARIUM	890	117	222	180	246	390	360
BERYLLIUM	2	1	1	1	2	2	2
BORON	8	12	9	10	10	9	10
CADMIUM	6	5	5	5	6	7	5
CALCIUM	38600	167	72	318	187	1070	1100
CHROMIUM	53	45	43	43	50	59	48
COBALT	17	9	15	7	36	19	19
COPPER	15	9	8	15	<1	7	14
IRON	34200	31100	32000	29300	38300	40400	39300
LEAD	143	105	106	76	120	112	98
LITHIUM	55	37	12	36	32	20	58
MAGNESIUM	28400	6100	5600	5300	7400	8300	7900
MANGANESE	760	125	1260	430	830	890	825
MOLYBDENUM	<2	<2	<2	<2	<2	<2	<2
NICKEL	31	26	30	23	38	42	42
SELENIUM	<20	<20	<20	<20	<20	<20	<20
SILICON	930	1870	2300	2000	1440	2100	1470
SILVER	<1	<1	<1	<1	<1	<1	<1
SODIUM	1340	225	980	6060	1090	4900	1280
STRONTIUM	54	24	12	21	30	45	9
THALLIUM	<50	<50	<50	<50	<50	<50	<50
TIN	71	44	91	78	60	92	51
TITANIUM	560	420	337	230	260	380	220
VANADIUM	55	50	10	5	15	49	40
ZINC	156	50	54	45	77	89	96
URANIUM	<200	<200	<200	<200	<200	<200	<200
MERCURY	*	*	*	*	*	*	*

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY
SOIL
UNIT=PPM (PARTS PER MILLION).

BURIAL GROUND A
SOIL BORING GW-29

	DEPTH (IN FEET)						
METAL	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
ALUMINUM	*	*	*	*	*	*	*
ANTIMONY	*	*	*	*	*	*	*
ARSENIC	*	*	*	*	*	*	*
BARIUM	*	*	*	*	*	*	*
BERYLLIUM	*	*	*	*	*	*	*
BORON	*	*	*	*	*	*	*
CADMIUM	*	*	*	*	*	*	*
CALCIUM	*	*	*	*	*	*	*
CHROMIUM	*	*	*	*	*	*	*
COBALT	*	*	*	*	*	*	*
COPPER	*	*	*	*	*	*	*
IRON	*	*	*	*	*	*	*
LEAD	*	*	*	*	*	*	*
LITHIUM	*	*	*	*	*	*	*
MAGNESIUM	*	*	*	*	*	*	*
MANGANESE	*	*	*	*	*	*	*
MOLYBDENUM	*	*	*	*	*	*	*
NICKEL	*	*	*	*	*	*	*
SELENIUM	*	*	*	*	*	*	*
SILICON	*	*	*	*	*	*	*
SILVER	*	*	*	*	*	*	*
SODIUM	*	*	*	*	*	*	*
STRONTIUM	*	*	*	*	*	*	*
THALLIUM	*	*	*	*	*	*	*
TIN	*	*	*	*	*	*	*
TITANIUM	*	*	*	*	*	*	*
VANADIUM	*	*	*	*	*	*	*
ZINC	*	*	*	*	*	*	*
URANIUM	*	*	*	*	*	*	*
MERCURY	<0.2	<0.2	<0.2	<0.4	<0.6	<0.3	<0.4

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY 12:48 MONDAY, FEBRUARY 27, 1984 8
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-39

METAL	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5
ALUMINUM	*	*	*	*	*	*	*	*	*	19700	*
ANTIMONY	*	*	*	*	*	*	*	*	*	<10	*
ARSENIC	*	*	*	*	*	*	*	*	*	67	*
BARIUM	*	*	*	*	*	*	*	*	*	189	*
BERYLLIUM	*	*	*	*	*	*	*	*	*	<1	*
BORON	*	*	*	*	*	*	*	*	*	8	*
CADMIUM	*	*	*	*	*	*	*	*	*	2	*
CALCIUM	*	*	*	*	*	*	*	*	*	2000	*
CHROMIUM	*	*	*	*	*	*	*	*	*	24	*
COBALT	*	*	*	*	*	*	*	*	*	11	*
COPPER	*	*	*	*	*	*	*	*	*	19	*
IRON	*	*	*	*	*	*	*	*	*	22400	*
LEAD	*	*	*	*	*	*	*	*	*	54	*
LITHIUM	*	*	*	*	*	*	*	*	*	19	*
MAGNESIUM	*	*	*	*	*	*	*	*	*	4000	*
MANGANESE	*	*	*	*	*	*	*	*	*	1700	*
MOLYBDENUM	*	*	*	*	*	*	*	*	*	<2	*
NICKEL	*	*	*	*	*	*	*	*	*	27	*
SELENIUM	*	*	*	*	*	*	*	*	*	<20	*
SILICON	*	*	*	*	*	*	*	*	*	1040	*
SILVER	*	*	*	*	*	*	*	*	*	<1	*
SODIUM	*	*	*	*	*	*	*	*	*	550	*
STRONTIUM	*	*	*	*	*	*	*	*	*	15	*
THALLIUM	*	*	*	*	*	*	*	*	*	<50	*
TIN	*	*	*	*	*	*	*	*	*	<50	*
TITANIUM	*	*	*	*	*	*	*	*	*	148	*
VANADIUM	*	*	*	*	*	*	*	*	*	21	*
ZINC	*	*	*	*	*	*	*	*	*	50	*
URANIUM	*	*	*	*	*	*	*	*	*	<200	*
MERCURY	<0.2	<0.2	<0.3	<0.1	<0.5	<0.7	<0.3	<0.2	<0.1	<0.1	<0.1

SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A
SOIL BORING GW-45

	DEPTH (IN FEET)
METAL	9.0-10.5
ALUMINUM	27900
ANTIMONY	23
ARSENIC	81
BARIUM	147
BERYLLIUM	1
BORON	15
CADMIUM	3
CALCIUM	2900
CHROMIUM	39
COBALT	2
COPPER	58
IRON	26300
LEAD	69
LITHIUM	48
MAGNESIUM	5200
MANGANESE	400
MOLYBDENUM	<2
NICKEL	39
SELENIUM	<20
SILICON	3000
SILVER	<1
SODIUM	83
STRONTIUM	11
THALLIUM	<50
TIN	66
TITANIUM	60
VANADIUM	21
ZINC	42
URANIUM	<200
MERCURY	<0.2

METALS (DETERMINED BY ICAP/AA ANALYSIS),
CYANIDE, PHENOLS & MERCURY
IN SEDIMENT

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND A

	STATION																			
PARAMETER	1A	2A	3A	4A	5A	7A	8A	9A	11A	12A	13A	14A	15A	17A	20A	21A	22A	24A	25A	26A
ALUMINUM	28000	52000	31000	27000	13000	44000	36000	26000	30000	23000	33000	18000	15000	26000	21600	19100	19200	20000	15000	9400
ANTIMONY	10	25	<10	30	10	16	20	10	10	10	20	<10	10	<10	<10	<10	12	10	20	<10
ARSENIC	80	140	80	80	30	130	100	50	70	60	100	40	50	70	80	38	67	20	<20	30
BARIUM	260	210	430	290	100	190	160	140	140	57	150	120	110	170	220	189	250	110	180	81
BERYLLIUM	<2	3	3	3	<2	<1	2	2	1	1	3	2	3	1	<1	<1	<1	1.1	1.1	1.0
BORON	5	2	<2	8	<2	2	<2	<2	<2	<2	<2	4	3	<2	4	5	10	9	7	11
CADMIUM	2.3	4.5	2.6	2.7	1.4	4.3	4	2	2.3	2	3.8	8	11	1.9	3	18	10	1.6	9.1	5.5
CALCIUM	600	1940	55000	2000	1100	3800	5000	1800	1700	790	1600	52000	1300	130	1350	1520	920	1300	980	23000
CHROMIUM	29	53	27	29	12	41	42	24	29	17	48	29	23	20	24	17	24	26	40	43
COBALT	6	10	7	14	8	11	24	7	8	2	20	17	19	12	12	18	32	10	25	15
COPPER	2	7	8	5	<1	10	8	6	9	2	2	7	8	3	19	7	6	3	4	4
IRON	12000	40000	23000	33000	19000	27000	30000	18000	15000	13000	36000	20000	15000	13000	16200	12000	22100	16000	27000	23000
LEAD	60	100	70	80	30	80	80	50	50	40	90	50	30	30	75	29	64	45	51	30
LITHIUM	10	40	40	60	30	30	40	30	40	20	30	30	60	30	40	23	47	30	20	30
MAGNESIUM	1600	3100	27000	2000	1100	4900	3800	2600	2800	1700	3400	6700	1200	2100	1860	1440	1970	1800	1600	1200
MANGANESE	230	550	400	5200	170	230	1400	180	150	430	950	1200	2300	390	2030	2430	2570	740	3200	1700
MOLYBDENUM	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	2	3	<2	4	<2
NICKEL	11	14	13	18	8	17	26	11	13	6	20	44	68	10	19	95	55	10	56	35
SELENIUM	<20	<20	<20	<20	<20	<20	<2	<20	<20	<2	<2	<20	<20	<20	<20	<20	<20	<20	<20	<20
SILICON	710	1700	1400	980	<5	3300	2600	<5	<5	3400	1200	220	220	290	34	310	660	470	1900	300
SILVER	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	1	<1	<1	<1	<1	<1	<1	<1
SODIUM	140	170	140	440	250	1100	170	460	690	200	710	310	240	480	640	400	260	460	350	130
STRONTIUM	18	16	26	12	5.9	14	13	21	23	5.2	12	59	5.4	18	23	16	15	20	9.0	27
THALLIUM	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TIN	<50	70	60	80	<50	60	60	<50	<50	<50	60	<50	80	<50	<50	<50	<50	<50	<50	<50
TITANIUM	170	350	200	180	250	480	250	980	970	300	390	360	180	750	370	193	181	200	150	85
VANADIUM	19	44	24	23	13	35	35	24	27	16	33	26	17	24	26	19	25	22	31	32
ZINC	56	36	49	98	16	37	69	26	35	21	52	31	100	24	64	41	36	22	46	29
URANIUM	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	372	<200	<200	<200	<200	<200
CYANIDE	<0.5	<0.5	0.3	<0.5	<0.5	0.24	0.35	<0.5	<0.5	0.2	0.17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	*	*	*
PHENOLS	0.05	0.3	<0.6	0.13	0.2	<0.2	0.06	0.81	2.7	0.21	0.08	0.11	0.1	3.2	0.14	0.15	0.16	*	*	*
MERCURY	<0.1	*	<0.1	<0.1	0.1	0.7	<0.2	0.9	1.4	<0.1	<0.1	<0.1	0.3	<0.1	1.1	<0.1	0.3	<0.1	0.1	<0.1

METALS (DETERMINED BY ICAP/AA ANALYSIS)
IN SOIL

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-31

METAL	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	7.5-9.0	10.5-12.0	15.0-16.5
ALUMINUM	15000	15000	14000	20000	19000
ANTIMONY	<*7	<*5	<*6	<*6	<*6
ARSENIC	20000	17000	<*4	<*4	<*4
BARIUM	97	79	89	150	190
BERYLLIUM	0.48	0.62	0.58	1.1	0.91
BORON	74	86	75	81	77
CADMIUM	<*0.1	<*0.1	<*0.1	<*0.1	<*0.1
CALCIUM	600	20	130	600	1100
CERIUM	<*20	<*1	<*1	<*1	<*1
CHROMIUM	34	40	31	40	38
COBALT	31	12	13	22	24
COPPER	13	15	<*1	32	13
GALLIUM	<*1	<*1	<*1	<*1	<*1
GERMANIUM	<*1	<*1	<*1	<*1	<*1
GOLD	<*0.1	<*0.1	<*0.1	<*0.1	<*0.1
IRON	27000	30000	28000	34000	30000
LANTHANUM	4.6	6.6	5.4	17	11
LEAD	<*8	<*7	<*8	<*8	<*8
LITHIUM	16	14	12	15	18
MAGNESIUM	3600	3000	2700	9200	13000
MANGANESE	1200	71	97	230	940
MERCURY	<*2	<*2	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	1	<*1	<*1
NICKEL	14	7.8	5.0	18	20
POTASSIUM	3000	2200	1800	3600	<*3
SELENIUM	<*8	<*7	<*8	<*8	<*8
SILVER	<*0.1	<*0.1	<*0.1	<*0.1	<*0.1
SODIUM	38	44	110	140	180
STRONTIUM	6.4	1.5	1.6	7.0	9.9
TIN	<*1	<*1	36	26	22
TITANIUM	20	2.6	5.8	20	9.9
VANADIUM	18	19	19	17	16
ZINC	73	51	88	140	120
ZIRCONIUM	3.5	2.1	4.7	3.7	0.96

METALS (DETERMINED BY ICAP/AA ANALYSIS)
IN SOIL

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-33

METAL	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	7.5-9.0
ALUMINUM	15000	18000	14000
ANTIMONY	<*6	<*6	<*6
ARSENIC	<*4	<*4	<*4
BARIUM	160	100	140
BERYLLIUM	0.81	1.0	0.67
BORON	90	97	72
CADMIUM	<*0.1	<*0.1	<*0.1
CALCIUM	250	170	320
CERIUM	<*1	<*1	<*1
CHROMIUM	40	39	36
COBALT	27	21	12
COPPER	17	11	19
GALLIUM	<*1	<*1	<*1
GERMANIUM	<*1	<*1	<*1
GOLD	<*0.1	<*0.1	<*0.1
IRON	36000	37000	25000
LANTHANUM	8.0	6.8	8.5
LEAD	<*8	<*8	<*8
LITHIUM	20	25	18
MAGNESIUM	3500	4200	2900
MANGANESE	660	220	38
MERCURY	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	<*1
NICKEL	12	16	9.5
POTASSIUM	2000	3500	2800
SELENIUM	<*8	<*8	<*8
SILVER	<*0.1	<*0.1	<*0.1
SODIUM	41	77	82
STRONTIUM	3.1	4.6	9.0
TIN	11	28	30
TITANIUM	33	20	18
VANADIUM	23	21	14
ZINC	82	110	81
ZIRCONIUM	4.6	2.6	1.8

METALS (DETERMINED BY ICAP/AA ANALYSIS)
IN SOIL

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-34

METAL	DEPTH (IN FEET) 1.0-2.5	5.5-6.5	12.5-12.9
ALUMINUM	15000	16000	12000
ANTIMONY	<*6	<*6	<*6
ARSENIC	17000	18000	<*4
BARIUM	<*0.5	340	350
BERYLLIUM	0.68	0.94	0.71
BORON	96	93	69
CADMIUM	<*0.1	<*0.1	<*0.1
CALCIUM	120000	1500	1600
CERIUM	<*1	<*1	<*1
CHROMIUM	6.2	45	37
COBALT	29	34	24
COPPER	8.9	27	15
GALLIUM	<*1	<*1	<*1
GERMANIUM	<*1	<*1	<*1
GOLD	<*0.1	<*0.1	<*0.1
IRON	36000	37000	28000
LANTHANUM	12	7.6	6.1
LEAD	<*8	<*8	<*8
LITHIUM	41	27	16
MAGNESIUM	20000	5800	4300
MANGANESE	410	1100	1400
MERCURY	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	<*1
NICKEL	21	26	17
POTASSIUM	2100	3400	3400
SELENIUM	<*8	<*8	<*8
SILVER	0.1	<*0.1	<*0.1
SODIUM	78	100	100
STRONTIUM	<*1	6.0	5.1
TIN	71	62	50
TITANIUM	62	6.3	3.7
VANADIUM	20	19	13
ZINC	82	100	83
ZIRCONIUM	2.8	1.9	1.6

METALS (DETERMINED BY ICAP/AA ANALYSIS)
IN SOIL

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-35

	DEPTH (IN FEET)		
METAL	0.0-1.5	4.5-6.0	9.0-9.5
ALUMINUM	12000	14000	15000
ANTIMONY	<*7	<*6	<*6
ARSENIC	9.5	26	27
BARIUM	68	170	230
BERYLLIUM	0.53	0.62	0.82
BORON	62	73	76
CADMIUM	<*0.1	<*0.1	<*0.1
CALCIUM	18	140	300
CERIUM	<*1	<*1	<*1
CHROMIUM	40	38	43
COBALT	12	14	31
COPPER	27	19	9.2
GALLIUM	<*1	<*1	<*1
GERMANIUM	<*1	<*1	<*1
GOLD	<*0.1	<*0.1	<*0.1
IRON	3200	34000	36000
LANTHANUM	0.28	3.5	2.2
LEAD	<*8	<*8	<*8
LITHIUM	10	13	16
MAGNESIUM	750	2200	2700
MANGANESE	22	40	210
MERCURY	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	<*1
NICKEL	<*0.7	3.1	13
POTASSIUM	2400	2300	3200
SELENIUM	<*8	<*8	<*8
SILVER	0.1	<*0.1	<*0.1
SODIUM	58	94	120
STRONTIUM	<*1	7.9	7.5
TIN	13	28	27
TITANIUM	2.7	3.0	4.6
VANADIUM	14	13	14
ZINC	67	98	140
ZIRCONIUM	2.3	2.3	0.80

METALS (DETERMINED BY ICAP/AA ANALYSIS)
IN SOIL

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-36

METAL	DEPTH (IN FEET) 0.0-1.5	4.5-6.0	9.0-10.5
ALUMINUM	16000	22000	17000
ANTIMONY	<*6	<*6	<*6
ARSENIC	<*4	<*4	9.2
BARIUM	120	84	610
BERYLLIUM	<*0.1	0.9	0.94
BORON	78	97	100
CADMIUM	<*0.1	<*0.1	<*0.1
CALCIUM	1600	18	71
CERIUM	<*1	<*1	<*1
CHROMIUM	40	45	37
COBALT	22	14	110
COPPER	16	37	44
GALLIUM	<*0.1	<*0.1	<*0.1
GERMANIUM	<*0.1	<*0.1	<*0.1
GOLD	<*0.1	<*0.1	<*0.1
IRON	36000	44000	54000
LANTHANUM	4.7	3.2	1.6
LEAD	<*8	<*8	<*8
LITHIUM	21	36	37
MAGNESIUM	2500	2900	2200
MANGANESE	320	60	6400
MERCURY	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	<*1
NICKEL	6.9	7.5	25
POTASSIUM	2200	2900	2400
SELENIUM	<*8	<*8	<*8
SILVER	<*0.1	<*0.1	<*0.1
SODIUM	41	57	76
STRONTIUM	8.5	13	7.4
TIN	34	24	11
TITANIUM	4.4	1.6	1.7
VANADIUM	16	16	17
ZINC	66	90	140
ZIRCONIUM	3.8	2.0	4.2

METALS (DETERMINED BY ICAP/AA ANALYSIS) IN SOIL

10:45 WEDNESDAY, MARCH 28, 1984 30

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-37

METAL	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	7.5-9.0
ALUMINUM	16000	13000	18000
ANTIMONY	<*6	<*6	<*7
ARSENIC	<*4	8.2	<*5
BARIUM	250	120	290
BERYLLIUM	1.0	0.63	1.3
BORON	66	53	68
CADMIUM	<*0.1	<*0.1	<*0.1
CALCIUM	360	140	1300
CERIUM	<*1	<*1	<*1
CHROMIUM	37	40	46
COBALT	25	9.6	26
COPPER	12	8.5	42
GALLIUM	<*1	<*1	<*1
GERMANIUM	<*1	<*1	<*1
GOLD	<*0.1	<*0.1	<*0.1
IRON	34000	25000	29000
LANTHANUM	4.8	2.8	13
LEAD	<*8	<*7	<*8
LITHIUM	18	10	24
MAGNESIUM	3000	1500	4000
MANGANESE	900	40	120
MERCURY	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	<*1
NICKEL	15	2.2	21
POTASSIUM	2700	2800	3100
SELENIUM	<*8	<*7	<*8
SILVER	<*0.1	0.1	<*0.1
SODIUM	63	58	72
STRONTIUM	4.9	8.8	12
TIN	29	21	43
TITANIUM	2.8	3.6	33
VANADIUM	12	17	14
ZINC	97	42	110
ZIRCONIUM	2.3	2.4	1.6

METALS (DETERMINED BY ICAP/AA ANALYSIS)
IN SOIL

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-38

	DEPTH (IN FEET)			
METAL	0.0-1.5	1.5-3.0	6.0-7.5	10.5-12.0
ALUMINUM	16000	16000	20000	19000
ANTIMONY	<*6	<*6	<*6	<*6
ARSENIC	<*4	<*4	<*4	<*4
BARIUM	73	130	70	110
BERYLLIUM	0.83	0.84	0.92	1.1
BORON	140	73	77	73
CADMIUM	<*0.1	<*0.1	<*0.1	<*0.1
CALCIUM	240	150	150	380
CERIUM	<*1	<*1	<*1	<*1
CHROMIUM	32	32	41	40
COBALT	22	24	19	27
COPPER	15	17	24	21
GALLIUM	<*1	<*1	<*1	<*1
GERMANIUM	<*1	<*1	<*1	<*1
GOLD	<*0.1	<*0.1	<*0.1	<*0.1
IRON	29000	30000	33000	30000
LANTHANUM	3.5	5.2	8.6	8.8
LEAD	<*8	<*8	<*8	<*8
LITHIUM	17	18	11	12
MAGNESIUM	3400	3400	4100	4300
MANGANESE	510	550	120	250
MERCURY	<*2	<*2	<*2	<*2
MOLYBDENUM	<*1	<*1	<*1	<*1
NICKEL	13	13	8.9	17
POTASSIUM	2800	2700	2900	3800
SELENIUM	<*8	<*8	<*8	<*8
SILVER	<*0.1	<*0.1	<*0.1	<*0.1
SODIUM	53	64	52	110
STRONTIUM	1.5	1.6	4.7	6.2
TIN	23	46	4.5	24
TITANIUM	5.9	3.8	3.8	3.4
VANADIUM	15	16	14	13
ZINC	95	90	80	89
ZIRCONIUM	2.4	2.0	3.2	1.1

METALS (DETERMINED BY ICAP/AA ANALYSIS) & MERCURY
SOIL
UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND - BACKGROUND
SOIL BORING GW-41

	DEPTH (IN FEET)						
METAL	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.0
ALUMINUM	51000	93000	78000	94000	82000	88000	70000
ANTIMONY	30	30	20	30	20	40	30
ARSENIC	120	190	180	220	150	220	130
BARIUM	220	210	250	270	160	330	550
BERYLLIUM	4	4	4	4	3	5	7
BORON	5	11	14	13	11	7	12
CADMIUM	4.3	7.5	6	7	6.7	7.6	7
CALCIUM	190	<10	20	<10	10	<10	650
CHROMIUM	49	72	63	74	66	54	51
COBALT	14	22	7	14	8	8	21
COPPER	5	7	15	12	9	5	9
IRON	44000	62000	47000	46000	39000	73000	67000
LEAD	110	120	150	58	30	180	110
LITHIUM	50	80	70	60	100	100	100
MAGNESIUM	2400	4400	4000	4800	3700	4200	8000
MANGANESE	600	650	210	420	150	130	500
MOLYBDENUM	<2	<2	<2	<2	<2	<2	<2
NICKEL	14	18	17	33	21	22	35
SELENIUM	<20	<20	<20	<20	<20	<20	<20
SILICON	3000	1100	2900	2700	2000	3400	1300
SILVER	<1	<1	<1	<1	<1	<1	<1
SODIUM	280	400	330	360	270	340	260
STRONTIUM	39	65	60	59	58	61	63
THALLIUM	<50	<50	<50	<50	<50	<50	<50
TIN	70	90	110	70	70	140	130
TITANIUM	660	590	400	700	390	950	710
VANADIUM	47	75	60	67	57	75	63
ZINC	35	46	40	54	47	56	95
URANIUM	<200	<200	<200	<200	<200	<200	<200
MERCURY	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

OIL LANDFARM
SOIL BORING GW-44

	DEPTH (IN FEET)						
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
NITRATE - N	1.03	1.6	1.5	1.5	1.3	1.5	1.2
AMMONIA - N	2.4	2.7	7.7	3.7	4	4	3
ORTHO PHOSPHATE - P	3.3	2.6	2.5	5.4	2.6	2.5	2.5
CATION EXCHANGE CAPACITY	12	10	5	39	6	4	3
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-14

	DEPTH (IN FEET)						
PARAMETER	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5
NITRATE - N	<1	*	*	*	*	*	*
AMMONIA - N	4	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.92	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	14	30	23	37	41	34	35
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-15

	DEPTH (IN FEET)			
PARAMETER	0.0-1.5	1.5-3.0	4.1-6.4	6.5-8.0
NITRATE - N	<1	*	*	*
AMMONIA - N	7.9	*	*	*
ORTHO PHOSPHATE - P	<0.01	*	*	*
CATION EXCHANGE CAPACITY	28	32	42	35
TOTAL ORGANIC CARBON	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-16
NOTE: 0.5-11.0 FT. SAMPLED 10/3/83 --- 11.0-17.0 FT. SAMPLED 10/4/83

	DEPTH (IN FEET)										
PARAMETER	0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
NITRATE - N	*	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	*	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	*	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	45	35	23	36	41	3	40	61	30	45	38
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-18

	DEPTH (IN FEET)						
PARAMETER	0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0
NITRATE - N	<1	*	*	*	*	*	*
AMMONIA - N	7.8	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.69	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	54	32	75	41	44	35	35
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-20

	DEPTH (IN FEET)					
PARAMETER	1.0-2.5	2.5-4.0	4.0-5.5	5.5-7.0	7.0-8.5	8.5-10.0
NITRATE - N	*	*	*	*	*	*
AMMONIA - N	*	*	*	*	*	*
ORTHO PHOSPHATE - P	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	32	29	14	28	29	29
TOTAL ORGANIC CARBON	*	*	*	*	*	*

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-21

	DEPTH (IN FEET)
PARAMETER	0.0-1.5
NITRATE - N	<1
AMMONIA - N	8.1
ORTHO PHOSPHATE - P	<0.01
CATION EXCHANGE CAPACITY	58
TOTAL ORGANIC CARBON	*

SOIL & NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-22

	DEPTH (IN FEET)				
PARAMETER	0.0-1.5	1.5-3.0	4.5-6.0	6.0-7.5	7.5-9.0
NITRATE - N	<1	*	*	*	*
AMMONIA - N	6.6	*	*	*	*
ORTHO PHOSPHATE - P	<0.01	*	*	*	*
CATION EXCHANGE CAPACITY	73	38	45	39	26
TOTAL ORGANIC CARBON	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-23

	DEPTH (IN FEET)							
PARAMETER	0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5
NITRATE - N	<1	*	*	*	*	*	*	*
AMMONIA - N	6.5	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	1.62	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	49	31	18	31	57	43	30	32
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-24

PARAMETER	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0
NITRATE - N	*	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	*	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	*	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	29	34	35	48	40	39	37	31	4	45	42
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-26

	DEPTH (IN FEET)
PARAMETER	1.0-2.5
NITRATE - N	<1.0
AMMONIA - N	5.5
ORTHO PHOSPHATE - P	2.5
CATION EXCHANGE CAPACITY	56
TOTAL ORGANIC CARBON	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-27
NOTE: 0.0-12.0 FT. SAMPLED 10/11/83 --- 12.0-18.0 FT. SAMPLED 10/12/83

PARAMETER	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0
NITRATE - N	<1	*	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	6.1	*	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	3.1	*	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	6	56	4	5	69	4	8	11	6	5	4	8
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-28

	DEPTH (IN FEET)						
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
NITRATE - N	<1	*	*	*	*	*	*
AMMONIA - N	5.9	*	*	*	*	*	*
ORTHO PHOSPHATE - P	1	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	6	17	3	5	5	6	56
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-29

	DEPTH (IN FEET)						
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5
NITRATE - N	1.03	*	*	*	*	*	*
AMMONIA - N	8.9	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.92	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	4	560	4	10	50	3	5
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-39

	DEPTH (IN FEET)
PARAMETER	0.0-1.5
NITRATE - N	<1
AMMONIA - N	5.3
ORTHO PHOSPHATE - P	0.33
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-45

	DEPTH (IN FEET)							
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	7.5-9.0	9.0-10.5	12.0-13.5	13.5-15.0
NITRATE - N	1.2	*	*	*	*	*	*	*
AMMONIA - N	6.1	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	2.3	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	77	120	56	54	55	120	185	140
TOTAL ORGANIC CARBON	*	*	*	*	*	1	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-46

PARAMETER	DEPTH (IN FEET) 0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0	14.0-15.5	15.5-17.0	17.0-18.5
NITRATE - N	1.0	*	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	2.04	*	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.32	*	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	64	110	64	53	48	60	62	82	93	68	60	78
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-47
NOTE: 0.0-15.0 FT. SAMPLED 10/31/83 --- 15.0-21.0 FT. SAMPLED 11/1/83

PARAMETER	DEPTH (IN FEET)													
	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5	16.5-18.0	18.0-19.5	19.5-21.0
NITRATE - N	1.1	*	*	*	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	6.7	*	*	*	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.4	*	*	*	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	40	41	52	82	44	41	48	41	41	44	47	51	60	49
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-48

	DEPTH (IN FEET)					
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0
NITRATE - N	1.3	*	*	*	*	*
AMMONIA - N	9.2	*	*	*	*	*
ORTHO PHOSPHATE - P	0.52	*	*	*	*	*
CATION EXCHANGE CAPACITY	48	51	120	95	50	53
TOTAL ORGANIC CARBON	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-49

PARAMETER	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.0
NITRATE - N	<1.0	*	*	*	*	*	*	*	*
AMMONIA - N	7.3	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.5	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	39	55	53	61	120	100	70	52	46
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-50

PARAMETER	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0
NITRATE - N	1.1	*	*	*	*	*	*	*	*	*
AMMONIA - N	3.3	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.24	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	47	39	105	71	97	69	47	96	110	50
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-51

	DEPTH (IN FEET)							
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-11.2
NITRATE - N	<1	*	*	*	*	*	*	*
AMMONIA - N	5.7	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	1.6	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	45	45	98	46	55	48	72	70
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-52

	DEPTH (IN FEET)											
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.5-14.0	14.0-15.5	15.5-17.0	17.5-19.0
NITRATE - N	<1.0	*	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	8.5	*	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.44	*	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	41	32	39	40	68	60	50	70	59	59	77	56
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND A
SOIL BORING GW-53

	DEPTH (IN FEET)
PARAMETER	0.0-1.5
NITRATE - N	*
AMMONIA - N	*
ORTHO PHOSPHATE - P	*
CATION EXCHANGE CAPACITY	41
TOTAL ORGANIC CARBON	*

SOIL & NUTRIENT PARAMETERS
SURFACE SOIL COMPOSITES

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, AND ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY

BURIAL GROUND A

	LOCATION				
PARAMETER	S-3A	S-4A	S-5A	S-6A	S-7A
NITRATE - N	1.6	1.8	1.8	1.5	1.6
AMMONIA - N	4.5	10.6	6.1	12.1	16.6
ORTHO PHOSPHATE - P	0.24	0.36	0.56	0.48	0.56
CATION EXCHANGE CAPACITY	4	4	6	4	4

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B

PARAMETER	SOIL BORING NUMBER DEPTH (IN FEET) GW-31 0.0-1.5	GW-33 0.0-1.5	GW-34 1.0-2.5	GW-35 0.0-1.5	GW-36 0.0-1.5	GW-37 0.0-1.5	GW-38 0.0-1.5
NITRATE - N	<*1	<*1	1	<*1	6	1	<*1
AMMONIA - N	8.3	0.8	<*0.5	<*0.5	6.3	<*0.5	1.6
ORTHO PHOSPHATE - P	2.8	2.4	1.2	3.1	3.4	5.5	5.3
CATION EXCHANGE CAPACITY	*	*	*	*	*	*	*
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-31

PARAMETER	DEPTH (IN FEET) 0.0-1.5
NITRATE - N	<*1
AMMONIA - N	8.3
ORTHO PHOSPHATE - P	2.8
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND D
SOIL BORING GW-33

PARAMETER	DEPTH (IN FEET) 0.0-1.5
NITRATE - N	<*1
AMMONIA - N	0.8
ORTHO PHOSPHATE - P	2.4
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-34

	DEPTH (IN FEET)
PARAMETER	1.0-2.5
NITRATE - N	1
AMMONIA - N	<*0.5
ORTHO PHOSPHATE - P	1.2
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-35

	DEPTH (IN FEET)
PARAMETER	0.0-1.5
NITRATE - N	<*1
AMMONIA - N	<*0.5
ORTHO PHOSPHATE - P	3.1
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-36

PARAMETER	DEPTH (IN FEET) 0.0-1.5
NITRATE - N	6
AMMONIA - N	6.3
ORTHO PHOSPHATE - P	3.4
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-37

PARAMETER	DEPTH (IN FEET) 0.0-1.5
NITRATE - N	1
AMMONIA - N	<*0.5
ORTHO PHOSPHATE - P	5.5
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL AND NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION)

BURIAL GROUND B
SOIL BORING GW-30

DEPTH (IN FEET)	
PARAMETER	0.0-1.5
NITRATE - N	<*1
AMMONIA - N	1.6
ORTHO PHOSPHATE - P	5.3
CATION EXCHANGE CAPACITY	*
TOTAL ORGANIC CARBON	*

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND - BACKGROUND
SOIL BORING GW-40

	DEPTH (IN FEET)								
PARAMETER	0.5-2.0	2.0-3.5	3.5-5.0	5.0-6.5	6.5-8.0	8.0-9.5	9.5-11.0	11.0-12.5	12.5-14.0
NITRATE - N	1	*	*	*	*	*	*	*	*
AMMONIA - N	4	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	0.36	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	31	28	27	29	30	26	25	24	23
TOTAL ORGANIC CARBON	*	*	*	*	*	*	*	*	*

SOIL & NUTRIENT PARAMETERS

UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND - BACKGROUND
SOIL BORING GW-41

	DEPTH (IN FEET)						
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.0
NITRATE - N	1.5	*	*	1.5	*	*	*
AMMONIA - N	15	*	*	5	*	*	*
ORTHO PHOSPHATE - P	1.8	*	*	0.96	*	*	*
CATION EXCHANGE CAPACITY	35	42	27	27	26	53	37
TOTAL ORGANIC CARBON	11	2	<1	<1	<1	<1	<1

SOIL & NUTRIENT PARAMETERS
UNIT=PPM (PARTS PER MILLION) FOR NITRATE, AMMONIA, & ORTHO PHOSPHATE
UNIT=MILLIEQUIVALENTS/100 GRAMS (DRY BASIS) FOR CATION EXCHANGE CAPACITY
UNIT=MILLIGRAMS/GRAM (DRY BASIS) FOR TOTAL ORGANIC CARBON

BURIAL GROUND - BACKGROUND
SOIL BORING GW-42
NOTE: 0.0-7.5 FT. SAMPLED 9/28/83 --- 7.5-16.5 FT. SAMPLED 9/29/83

	DEPTH (IN FEET)										
PARAMETER	0.0-1.5	1.5-3.0	3.0-4.5	4.5-6.0	6.0-7.5	7.5-9.0	9.0-10.5	10.5-12.0	12.0-13.5	13.5-15.0	15.0-16.5
NITRATE - N	<0.01	*	*	*	*	*	*	*	*	*	*
AMMONIA - N	19.3	*	*	*	*	*	*	*	*	*	*
ORTHO PHOSPHATE - P	<0.01	*	*	*	*	*	*	*	*	*	*
CATION EXCHANGE CAPACITY	30	36	21	32	30	26	28	26	31	25	25
TOTAL ORGANIC CARBON	8	5	2	1	<1	<1	<1	<1	1	<1	<1

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-31

BURIAL GROUND B

	DEPTH (IN FEET)				
NUCLEAR MATERIAL	0.0-1.5	3.0-4.5	7.5-9.0	10.5-12.0	15.0-16.5
TOTAL URANIUM MEASURED	5.3695	2.153	2.046	1.631	2.162

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-33

BURIAL GROUND B

	DEPTH (IN FEET)		
NUCLEAR MATERIAL	0.0-1.5	3.0-4.5	7.5-9.0
TOTAL URANIUM MEASURED	2.5335	2.017	1.772

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-36

BURIAL GROUND B

	DEPTH (IN FEET)		
NUCLEAR MATERIAL	0.0-1.5	4.5-6.0	9.0-10.5
TOTAL URANIUM MEASURED	26.731	1.964	1.948

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-38

BURIAL GROUND B

NUCLEAR MATERIAL	DEPTH (IN FEET) 0.0-1.5	1.5-3.0	6.0-7.5	10.5-12.0
TOTAL URANIUM MEASURED	14.987	2.2831	1.916	1.793

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-37

BURIAL GROUND B

NUCLEAR MATERIAL	DEPTH (IN FEET) 0.0-1.5	3.0-4.5	7.5-9.0
TOTAL URANIUM MEASURED	1.809	1.805	1.975

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-34

BURIAL GROUND B

	DEPTH (IN FEET)		
NUCLEAR MATERIAL	1.0-2.5	5.5-6.5	12.5-12.9
TOTAL URANIUM MEASURED	15.965	2.224	2.043

SOURCE & SPECIAL NUCLEAR MATERIAL
IN SOIL

UNIT=PCI/G (PICOCURIES PER GRAM)

SOIL BORING GW-35
BURIAL GROUND B

	DEPTH (IN FEET)		
NUCLEAR MATERIAL	0.0-1.5	4.5-6.0	9.0-9.5
TOTAL URANIUM MEASURED	1.776	1.641	1.635

APPENDIX D

SOILS DATA
(1984 1st Quarter)

VOLATIL ORGANICS
PRIORITY LLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	STATION 2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
ACROLEIN	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N
BROMOFORM	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	13	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	12	<10	11	14	15	23	N	<10
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	N	N	N	61	N	N	N
TOLUENE	N	N	N	N	10	N	N	N
TRANS-1,2-DICHLOROETHENE	N	N	N	N	<10	N	N	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N
TRICHLOROETHENE	N	N	N	N	N	N	N	N
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N

VOLATILE ORGANIC
PRIORITY POLLUTAN
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	STATION 4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	N	17
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	N	N	N	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	21
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	N	N	N	84
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	<10
1,1-DICHLOROETHENE	N	N	N	N	N	N	N	N	29
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	26	N	N	14	<10	<10	N	N	16
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	N	N	N	<10	N	60	35	N	900
TOLUENE	N	N	N	N	N	N	N	N	<10
TRANS-1,2-DICHLOROETHENE	N	N	N	N	N	12	31	N	870
1,1,1-TRICHLOROETHANE	N	N	N	N	N	53	N	N	200
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
TRICHLOROETHENE	N	N	N	N	N	<10	13	N	860
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	N	N	N	180

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

VOLATILE ORGANIC	STATION 8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
ACROLEIN	N	N	N	N	N	N	N	N	N
ACRYLONITRILE	N	N	N	N	N	N	N	N	N
BENZENE	N	N	N	N	N	N	N	43	N
BROMOFORM	N	N	N	N	N	N	N	N	N
CARBON TETRACHLORIDE	N	N	N	N	N	N	N	N	N
CHLOROBENZENE	N	N	N	N	N	N	N	N	N
CHLORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROETHANE	N	N	N	N	N	19	30	49	N
2-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N
CHLOROFORM	N	N	N	N	N	N	N	N	N
BROMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N
DICHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHANE	N	N	N	N	N	15	32	140	N
1,2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N
1,1-DICHLOROETHENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N
CIS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
TRANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N
ETHYLBENZENE	N	N	N	N	N	N	N	N	N
BROMOMETHANE	N	N	N	N	N	N	N	N	N
CHLOROMETHANE	N	N	N	N	N	N	N	N	N
METHYLENE CHLORIDE	N	N	N	N	N	N	37	15	14
1,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N
TETRACHLOROETHENE	14	15	33	<10	<10	N	11	15	<10
TOLUENE	N	N	N	N	N	N	N	10	N
TRANS-1,2-DICHLOROETHENE	<10	19	11	<10	N	13	15	40	N
1,1,1-TRICHLOROETHANE	N	N	N	N	N	N	12	N	N
1,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N
TRICHLOROETHENE	N	<10	<10	<10	N	36	49	<10	N
FLUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N	N
VINYL CHLORIDE	N	N	N	N	N	<10	<10	42	N

VOLATILE ORGANICS
NON-PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - CONCENTRATIONS ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

VOLATILE ORGANIC	STATION 2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
METHYL ETHYL KETONE	N	N	N	N	28	N	N	<10
ACETONE	F	F	F	F	77	F	F	F
$C_5H_{10}O$	F	F	F	F	F	F	F	F
C_6H_{14}	F	F	F	F	F	103	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230	F	120	F	36	F	87	39
ACETONE AND THIOBISMETHANE	F	F	F	F	F	F	F	F

VOLATILE ORGANICS
NON-PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - CONCENTRATIONS ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

VOLATILE ORGANIC	STATION 4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
METHYL ETHYL KETONE	<10	<10	N	<10	17	12	N	N	N
ACETONE	F	F	F	F	37	37	F	F	F
$C_5H_{10}O$	F	F	F	35	F	48	F	F	F
C_6H_{14}	F	F	F	116	F	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F	F
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	F	F
ACETONE AND THIOBISMETHANE	F	F	F	F	F	F	F	F	32

VOLATILE ORGANICS
NON-PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION) - CONCENTRATIONS ESTIMATED EXCEPT FOR METHYL ETHYL KETONE

	STATION								
VOLATILE ORGANIC	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
METHYL ETHYL KETONE	<10	10	N	<10	N	11	N	19	19
ACETONE	F	F	F	F	F	31	F	53	68
$C_5H_{10}O$	F	F	F	F	F	F	F	F	F
C_6H_{14}	F	F	F	F	F	F	F	F	F
1,2-DICHLORO-1,1,2-TRIFLUOROETHANE	F	F	F	F	F	F	F	56	F
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	F	F	F	F	F	67	29	50	F
ACETONE AND THIOBISMETHANE	F	F	F	F	F	F	F	F	F

ACID EXTRACTAI ORGANICS
PRIORITY PO_JTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

ACID EXTRACTABLE ORGANIC	STATION 2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N
2-CHLOROPHENOL	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N
4,6-DINITRO-2-METHYLPHENOL	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

ACID EXTRACTABLE ORGANIC	STATION 4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N
4,6-DINITRO-2-METHYLPHENOL	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N

ACID EXTRACTABLE ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

ACID EXTRACTABLE ORGANIC	STATION 8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
2,4,6-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N
P-CHLORO-M-CRESOL	N	N	N	N	N	N	N	N	N
2-CHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DICHLOROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DIMETHYLPHENOL	N	N	N	N	N	N	N	N	N
2-NITROPHENOL	N	N	N	N	N	N	N	N	N
4-NITROPHENOL	N	N	N	N	N	N	N	N	N
2,4-DINITROPHENOL	N	N	N	N	N	N	N	N	N
4,6-DINITRO-2-METHYLPHENOL	N	N	N	N	N	N	N	N	N
PENTACHLOROPHENOL	N	N	N	N	N	N	N	N	N
PHENOL	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACTA' ' ORGANICS
PRIORITY POLLU. .TS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
ACENAPHTHENE	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL) ETHER	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE	N	N	N	N	N	N	N	N
4-CHLOROPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL) ETHER	N	N	N	N	N	N	N	N
FLUORANTHENE	160	300	N	N	540	N	N	N
BIS(2-CHLOROETHOXY)METHANE	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL)PHTHALATE	N	N	N	N	740	N	N	N
BENZYL BUTYL PHTHALATE	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N
DI-N-OCTYL PHTHALATE	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N
BENZO(A) ANTHRACENE	N	N	N	N	N	N	N	N
BENZO(A) PYRENE	N	N	N	N	N	N	N	N
BENZO(B) FLUORANTHENE	N	N	N	N	N	N	N	N
BENZO(K) FLUORANTHENE	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N
BENZO(GHI) PERYLENE	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	300	N	N	N
DIBENZO(A,H) ANTHRACENE	N	N	N	N	N	N	N	N
INDENO(1,2,3-CD) PYRENE	N	N	N	N	N	N	N	N
PYRENE	140	N	N	N	440	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACT E ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
ACENAPHTHENE	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL) ETHER	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE	N	N	N	N	N	N	N	N	N
4-CHLOROPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL) ETHER	N	N	N	N	N	N	N	N	N
FLUORANTHENE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY) METHANE	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL) PHTHALATE	N	N	N	N	N	N	N	N	N
BENZYL BUTYL PHTHALATE	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N
DI-N-OCTYL PHTHALATE	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
BENZO(A) ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZO(A) PYRENE	N	N	N	N	N	N	N	N	N
BENZO(B) FLUORANTHENE	N	N	N	N	N	N	N	N	N
BENZO(K) FLUORANTHENE	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZO(GHI) PERYLENE	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N
PHENANTHRENE	N	N	N	N	N	N	N	N	N
DIBENZO(A,H) ANTHRACENE	N	N	N	N	N	N	N	N	N
INDENO(1,2,3-CD) PYRENE	N	N	N	N	N	N	N	N	N
PYRENE	N	N	N	N	N	N	N	N	N

BASE-NEUTRAL EXTRACT E ORGANICS
PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

BASE-NEUTRAL EXTRACTABLE ORGANIC	STATION 8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
ACENAPHTHENE	N	N	N	N	N	N	N	N	N
BENZIDINE	N	N	N	N	N	N	N	N	N
1,2,4-TRICHLOROBENZENE	N	N	N	N	N	N	N	N	N
HEXACHLOROBENZENE	N	N	N	N	N	N	N	N	N
HEXACHLOROETHANE	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHYL) ETHER	N	N	N	N	N	N	N	N	N
2-CHLORONAPHTHALENE	N	N	N	N	N	N	N	N	N
1,2-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,3-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
1,4-DICHLOROBENZENE	N	N	N	N	N	N	N	N	N
3,3'-DICHLOROBENZIDINE	N	N	N	N	N	N	N	N	N
2,4-DINITROTOLUENE	N	N	N	N	N	N	N	N	N
1,2-DIPHENYLHYDRAZINE	N	N	N	N	N	N	N	N	N
4-CHLOROPHENYL PHENYL ETHER	N	N	N	N	N	N	N	N	N
BIS(2-CHLOROISOPROPYL) ETHER	N	N	N	N	N	N	N	N	N
FLUORANTHENE	460	N	N	N	N	N	N	N	N
BIS(2-CHLOROETHOXY) METHANE	N	N	N	N	N	N	N	N	N
HEXACHLOROBUTADIENE	N	N	N	N	N	N	N	N	N
HEXACHLOROCYCLOPENTADIENE	N	N	N	N	N	N	N	N	N
ISOPHORONE	N	N	N	N	N	N	N	N	N
NAPHTHALENE	N	N	N	N	N	N	N	N	N
NITROBENZENE	N	N	N	N	N	N	N	N	N
N-NITROSODIPHENYLAMINE	N	N	N	N	N	N	N	N	N
N-NITROSODI-N-PROPYLAMINE	N	N	N	N	N	N	N	N	N
BIS(2-ETHYLHEXYL) PHTHALATE	N	N	N	N	N	N	N	N	N
BENZYL BUTYL PHTHALATE	N	N	N	N	N	N	N	N	N
DI-N-BUTYLPHTHALATE	N	N	N	N	N	N	N	N	N
DI-N-OCTYL PHTHALATE	N	N	N	N	N	N	N	N	N
DIETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
DIMETHYLPHTHALATE	N	N	N	N	N	N	N	N	N
BENZO(A) ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZO(A) PYRENE	N	N	N	N	N	N	N	N	N
BENZO(B) FLUORANTHENE	N	N	N	N	N	N	N	N	N
BENZO(K) FLUORANTHENE	N	N	N	N	N	N	N	N	N
CHRYSENE	N	N	N	N	N	N	N	N	N
ACENAPHTHYLENE	N	N	N	N	N	N	N	N	N
ANTHRACENE	N	N	N	N	N	N	N	N	N
BENZO(GHI) PERYLENE	N	N	N	N	N	N	N	N	N
FLUORENE	N	N	N	N	N	N	N	N	N
PHENANTHRENE	380	N	N	N	N	N	N	N	N
DIBENZO(A,H) ANTHRACENE	N	N	N	N	N	N	N	N	N
INDENO(1,2,3-CD) PYRENE	N	N	N	N	N	N	N	N	N
PYRENE	400	N	N	N	N	N	N	N	N
2,6-DINITROTOLUENE	N	N	N	N	N	N	N	N	N

ACID/BASE-NEUTRAL EXTRA BLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	STATION							
PARAMETER	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
2-METHYLPHENOL	N	N	N	N	N	N	N	N
4-METHYLPHENOL	N	N	N	N	N	N	N	N
2,4,5-TRICHLOROPHENOL	N	N	N	N	N	N	N	N
2-NITROANILINE	N	N	N	N	N	N	N	N
4-NITROANILINE	N	N	N	N	N	N	N	N
2-METHYLNAPHTHALINE	N	N	N	N	N	N	N	N
3-NITROANILINE	N	N	N	N	N	N	N	N
ANILINE	N	N	N	N	N	N	N	N
BENZYL ALCOHOL	N	N	N	N	N	N	N	N
4-CHLOROANILINE	N	N	N	N	N	N	N	N
DIBENZOFURAN	N	N	N	N	N	N	N	N
BENZOIC ACID	F	F	F	F	F	F	F	F
1,1'-OXYBISOCTANE	F	F	F	F	F	F	F	F
2,2'-OXYBISETHANE	F	F	F	F	F	F	F	F

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

PARAMETER	STATION 4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
2-METHYLPHENOL	N	N	N	N	N	N	N	N	N
4-METHYLPHENOL	N	N	N	N	N	N	N	N	N
2,4,5-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N
2-NITROANILINE	N	N	N	N	N	N	N	N	N
4-NITROANILINE	N	N	N	N	N	N	N	N	N
2-METHYLNAPHTHALINE	N	N	N	N	N	N	N	N	N
3-NITROANILINE	N	N	N	N	N	N	N	N	N
ANILINE	N	N	N	N	N	N	N	N	N
BENZYL ALCOHOL	N	N	N	N	N	N	N	N	N
4-CHLOROANILINE	N	N	N	N	N	N	N	N	N
DIBENZOFURAN	N	N	N	N	N	N	N	N	N
BENZOIC ACID	F	F	F	F	F	F	F	F	F
1,1'-OXYBISOCTANE	F	F	F	F	F	F	4210	N	N
2,2'-OXYBISETHANE	F	F	F	F	F	F	N	N	2000

ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS
NON-PRIORITY POLLUTANTS
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	STATION								
PARAMETER	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
2-METHYLPHENOL	N	N	N	N	N	N	N	N	N
4-METHYLPHENOL	N	N	N	N	N	N	N	N	N
2,4,5-TRICHLOROPHENOL	N	N	N	N	N	N	N	N	N
2-NITROANILINE	N	N	N	N	N	N	N	N	N
4-NITROANILINE	N	N	N	N	N	N	N	N	N
2-METHYLNAPHTHALINE	N	N	N	N	N	N	N	N	N
3-NITROANILINE	N	N	N	N	N	N	N	N	N
ANILINE	N	N	N	N	N	N	N	N	N
BENZYL ALCOHOL	N	N	N	N	N	N	N	N	N
4-CHLOROANILINE	N	N	N	N	N	N	N	N	N
DIBENZOFURAN	N	N	N	N	N	N	N	N	N
BENZOIC ACID	F	F	F	N	F	F	F	F	N
1,1'-OXYBISOCTANE	10466	4800	6000	16000	F	F	F	F	9700
2,2'-OXYBISETHANE	N	N	N	N	F	F	F	F	N

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	STATION							
PCB	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
AROCLOR 1242,1248 AND/OR 1016	N	N	N	N	N	N	N	N
AROCLOR 1254	N	N	N	N	N	N	N	N
AROCLOR 1260	N	N	N	N	N	N	N	N

PCB'S

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	STATION								
PCB	4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
AROCLOR 1242, 1248 AND/OR 1016	N	N	N	N	N	N	N	N	0.45
AROCLOR 1254	N	N	N	N	N	N	0.26	N	6.2
AROCLOR 1260	N	N	N	N	N	N	0.13	N	0.60

PCB'S

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

PCB	STATION 8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
AROCLOR 1242,1248 AND/OR 1016	N	N	N	0.05	N	0.10	0.18	N	N
AROCLOR 1254	0.26	0.11	N	0.15	N	0.16	0.14	N	N
AROCLOR 1260	0.10	N	0.06	0.44	N	0.59	0.21	N	N

METALS (DETERMINED BY IC /AA ANALYSIS)
AND MERCURY
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	STATION							
METAL	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
ALUMINUM	58000	55000	44000	17000	57000	43000	51000	47000
ANTIMONY	18	13	24	<*5	6	19	9	10
ARSENIC	220	220	180	50	191	200	210	160
BARIUM	960	1500	1000	180	290	330	820	320
BERYLLIUM	4.9	5.4	4.4	0.1	53	4	5.9	1.9
BORON	20	64	22	<*1	33	15	11	46
CADMIUM	32	37	7	1	5	11	32	5
CALCIUM	20000	27000	2300	420	80000	2200	6600	2100
CHROMIUM	74	79	72	20	65	80	66	47
COBALT	66	84	51	10	14	37	100	22
COPPER	20	21	2	3	67	14	37	21
IRON	60000	64000	120000	11000	29000	76000	65000	36000
LEAD	220	200	290	27	200	210	250	160
LITHIUM	60	39	27	48	71	67	79	50
MAGNESIUM	8200	9200	2800	1000	20000	2700	2900	3000
MANGANESE	5700	12000	7500	180	450	2300	8700	790
MOLYBDENUM	<*2	<*2	<*2	<*2	<*2	<*2	<*2	<*2
NICKEL	240	300	44	10	32	60	230	28
SELENIUM	<*20	<*20	<*20	<*20	<*20	<*20	<*20	<*20
SILICON	1100	3800	1600	<*5	470	710	380	630
SILVER	<*1	<*1	<*1	<*1	<*1	<*1	<*1	<*1
SODIUM	880	920	1100	620	740	870	640	1200
STRONTIUM	47	56	31	24	110	43	35	36
THALLIUM	<*30	<*30	<*30	<*30	<*30	<*30	<*30	<*30
TIN	40	57	59	<*20	<*20	62	56	<*20
TITANIUM	960	1100	970	1400	1200	1000	1400	890
VANADIUM	58	66	61	17	48	72	57	46
ZINC	110	110	64	15	150	83	140	70
URANIUM	<*200	<*200	<*200	<*200	<*200	<*200	<*200	<*200
MERCURY	0.58	0.65	0.30	0.03	8.8	0.33	1.0	1.0

AND MERCURY
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	STATION								
METAL	4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
ALUMINUM	48000	39000	39000	51000	42000	48000	42000	34000	53000
ANTIMONY	7	<*5	16	<*5	8	13	6	12	14
ARSENIC	200	160	210	200	160	170	160	140	190
BARIUM	460	840	280	530	520	590	610	1300	240
BERYLLIUM	3.0	5.4	2.2	4.8	4.3	2.9	2.8	4.2	2.1
BORON	12	23	35	35	11	6	17	41	12
CADMIUM	17	65	4	43	36	4	22	31	4
CALCIUM	4100	5300	2600	3700	2500	3000	3700	15000	2000
CHROMIUM	67	71	58	64	80	45	64	120	60
COBALT	45	82	19	60	58	27	64	64	25
COPPER	12	32	8	39	17	37	16	24	6
IRON	50000	50000	34000	34000	63000	33000	33000	66000	47000
LEAD	220	190	105	170	200	120	170	53	170
LITHIUM	61	100	66	150	93	88	89	66	85
MAGNESIUM	4000	2700	3400	3200	3200	3400	3700	2700	4800
MANGANESE	4100	12000	1600	7000	6400	7600	9300	10000	1100
MOLYBDENUM	<*2	5	<*2	3	<*2	<*2	<*2	<*2	<*2
NICKEL	110	440	21	240	210	35	150	190	30
SELENIUM	<*20	<*20	<*20	<*20	<*20	<*20	<*20	<*20	<*20
SILICON	650	480	170	230	950	54	600	720	2000
SILVER	<*1	<*1	<*1	<*1	<*1	<*1	<*1	<*1	<*1
SODIUM	1100	670	1100	890	910	1100	750	570	1500
STRONTIUM	32	33	30	34	31	40	31	31	26
THALLIUM	<*30	<*30	<*30	<*30	<*30	<*30	<*30	<*30	<*30
TIN	29	62	160	34	22	<*20	140	69	54
TITANIUM	870	710	960	980	900	1300	280	530	1100
VANADIUM	62	35	44	54	54	49	22	130	48
ZINC	78	160	42	136	95	79	87	100	69
URANIUM	<*200	<*200	<*200	<*200	<*200	<*200	<*200	<*200	<*200
MERCURY	0.31	1.8	0.26	1.8	0.83	0.94	0.60	0.24	0.26

AND MERCUR.
IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	STATION								
METAL	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
ALUMINUM	43000	49000	33000	65000	89000	88000	82000	76000	27000
ANTIMONY	17	8	5	13	18	15	24	22	11
ARSENIC	160	160	110	230	450	330	300	290	120
BARIUM	390	370	290	380	450	340	380	350	230
BERYLLIUM	3.3	1.7	2.1	8.1	2.4	27	15	31	3
BORON	11	4	25	14	58	32	37	28	12
CADMIUM	17	5	2	5	6	6	5	5	12
CALCIUM	14000	2600	1700	2700	1900	4500	8200	25000	1800
CHROMIUM	91	61	49	60	70	92	80	70	83
COBALT	40	25	20	27	18	28	21	20	40
COPPER	14	6	4	9	12	13	14	13	7
IRON	51000	33000	30000	49000	65000	72000	62000	52000	59000
LEAD	180	140	110	190	230	280	190	180	180
LITHIUM	110	92	71	100	120	220	190	130	75
MAGNESIUM	3700	3400	2300	5200	4400	7500	8900	10000	2000
MANGANESE	4600	2700	2200	2200	1300	720	770	890	3400
MOLYBDENUM	<*2	<*2	<*2	<*2	<*2	<82	<*2	<*2	<*2
NICKEL	110	37	20	29	24	43	34	27	66
SELENIUM	<*20	<*20	<*20	<*20	<*20	<820	<*20	<*20	<*20
SILICON	670	260	170	1700	510	6800	3700	1600	100
SILVER	<*1	<*1	<*1	<*1	<*1	<81	<*1	<*1	<*1
SODIUM	770	990	1100	2000	780	1300	520	1300	510
STRONTIUM	49	32	23	42	45	41	40	62	16
THALLIUM	<*30	<*30	<*30	<*30	<*30	<830	<*30	<*30	<*30
TIN	36	68	75	71	<*20	<820	49	61	92
TITANIUM	850	990	680	1400	1500	1800	1600	1500	580
VANADIUM	660	51	45	58	74	78	69	61	43
ZINC	870	45	40	63	59	100	87	110	90
URANIUM	<*200	<*200	<*200	<*200	<*200	<8200	<*200	<*200	<*200
MERCURY	0.35	0.03	0.08	0.24	0.03	0.16	0.11	0.22	0.41

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPT (PARTS PER THOUSAND)

	STATION							
PARAMETER	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
TOTAL ORGANIC CARBON	12	5	3	2	26	2	6	2

TOTAL ORGANIC RBON

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPT (PARTS PER THOUSAND)

	STATION								
PARAMETER	4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
TOTAL ORGANIC CARBON	3	19	5	6	4	6	6	6	5

TOTAL ORGANIC CARBON

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPT (PARTS PER THOUSAND)

	STATION								
PARAMETER	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
TOTAL ORGANIC CARBON	7	1	3	6	10	4	7	5	3

RADIONUCLID

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/G (PICOCURIES PER GRAM)

	STATION							
RADIONUCLIDE	2-1	2-2	2-3	2-4	2-5	3-1	3-2	3-3
TOTAL URANIUM	38.1	83.9	7.14	1.853	715	36.6	117.6	19.53
TOTAL PLUTONIUM	0.0	0.0	0.0	0.010	0.255	0.0	0.021	0.0
TOTAL THORIUM	1.99	2.29	2.12	1.492	4.36	2.31	2.25	2.06
137 CESIUM	0.0	0.054	0.15	0.0	0.955	0.064	0.16	0.0

RADIONUCLIDE

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/G (PICOCURIES PER GRAM)

	STATION								
RADIONUCLIDE	4-1	4-2	4-3	6-1	6-2	6-3	7-1	7-2	7-3
TOTAL URANIUM	36.2	71.2	9.05	72.4	49.3	254	50.6	35.2	96.9
TOTAL PLUTONIUM	0.0	0.0	0.0	0.021	0.0	0.056	0.0	0.0	0.062
TOTAL THORIUM	2.23	1.93	2.26	2.05	2.09	2.67	1.84	2.14	2.28
137 CESIUM	0.057	0.0	0.051	0.434	0.0	1.11	0.16	0.09	0.0

RADIONUCLID

IN SEDIMENT

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PCI/G (PICOCURIES PER GRAM)

	STATION								
RADIONUCLIDE	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8	9-1
TOTAL URANIUM	57.3	11.73	27.7	61.1	31.9	191.1	70.1	253	24.9
TOTAL PLUTONIUM	0.0	0.0	0.027	0.038	0.0	0.057	0.0	0.0	0.0
TOTAL THORIUM	2.03	1.626	1.97	2.12	2.65	2.64	2.74	2.53	1.478
137 CESIUM	0.12	0.547	0.14	0.16	0.068	0.535	0.15	0.084	0.19

VOLATILE ORGANICS
PRIORITY POLLUTANTS
IN BACKGROUND TRENCH SOIL

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	DEPTH (IN FEET)											
LATILE IGANIC	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0	4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0	8.0-11.5	8.0-11.5	8.0-11.5	8.0-11.5
RCLEIN	N	N	N	N	N	N	N	N	N	N	N	N
RYLONITRILE	N	N	N	N	N	N	N	N	N	N	N	N
NZENE	N	N	N	N	N	N	N	N	N	N	N	N
OMOFORM	N	N	N	N	N	N	N	N	N	N	N	N
REON TETRACHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N
LCROBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
LORODIBROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
LCROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
-CHLOROETHYLVINYL ETHER	N	N	N	N	N	N	N	N	N	N	N	N
LCROFORM	N	N	N	N	N	N	N	N	N	N	N	N
OMODICHLOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
CHLORODIFLUOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
.1-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
.2-DICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
.1-DICHLOROETHENE	N	N	N	N	N	N	N	N	N	N	N	N
,2-DICHLOROPROPANE	N	N	N	N	N	N	N	N	N	N	N	N
IS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N	N	N	N
RANS-1,3-DICHLOROPROPENE	N	N	N	N	N	N	N	N	N	N	N	N
THYLBENZENE	N	N	N	N	N	N	N	N	N	N	N	N
ROMOMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
LCROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
ETHYLENE CHLORIDE	20	N	N	<10	10	N	N	N	N	N	11	<10
,1,2,2-TETRACHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
ETRACHLOROETHENE	N	N	N	N	N	N	N	N	N	N	N	N
OLUENE	N	N	N	N	N	N	N	N	N	N	N	N
RANS-1,2-DICHLOROETHENE	N	N	N	N	N	N	N	N	N	N	N	N
,1,1-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
,1,2-TRICHLOROETHANE	N	N	N	N	N	N	N	N	N	N	N	N
RICHLOROETHENE	N	N	N	N	N	N	N	N	N	N	N	N
LUOROTRICHLOROMETHANE	N	N	N	N	N	N	N	N	N	N	N	N
INYL CHLORIDE	N	N	N	N	N	N	N	N	N	N	N	N

VOLATILE ORGAI ;
NON-PRIORITY POLLUTANTS
IN BACKGROUND TRENCH SOIL

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPB (PARTS PER BILLION)

	DEPTH (IN FEET)											
VOLATILE ORGANIC	0.0-4.0	0.0-4.0	0.0-4.0	0.0-4.0	4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0	8.0-11.5	8.0-11.5	8.0-11.5	8.0-11.5
METHYL ETHYL KETONE	N	<10	N	N	N	N	N	N	17	N	N	16

IN BACKGROUND TRENCH SOIL COMPOSITES

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	DEPTH (IN FEET)		
PARAMETER	0.0-4.0	4.0-8.0	8.0-11.5
AROCLOR 1242,1248 AND/OR 1016	N	N	N
AROCLOR 1254	N	N	N
AROCLOR 1260	N	N	N

METALS (DETERMINED BY ICP MA ANALYSIS)
AND MERCURY
IN BACKGROUND TRENCH SOIL COMPOSITES

BEAR CREEK WASTE DISPOSAL AREA

UNIT=PPM (PARTS PER MILLION)

	DEPTH (IN FEET)		
METAL	0.0-4.0	4.0-8.0	8.0-11.5
ALUMINUM	82000	100000	73000
ANTIMONY	8	100	20
ARSENIC	170	190	110
BARIUM	350	220	440
BERYLLIUM	4.0	3.8	3.9
BORON	<*1	4	<*1
CADMIUM	7	5	5
CALCIUM	<*0.2	<*0.2	50
CHROMIUM	110	15	110
COBALT	11	11	110
COPPER	24	19	26
IRON	77000	53000	56000
LEAD	200	200	130
LITHIUM	110	90	64
MAGNESIUM	3200	3100	3100
MANGANESE	200	79	80
MOLYBDENUM	2	2	<*2
NICKEL	28	26	20
SELENIUM	<*20	<*20	<*20
SILICON	224	296	125
SILVER	<*1	<*1	<*1
SODIUM	440	480	430
STRONTIUM	44	33	53
THALLIUM	<*30	<*30	<*30
TIN	85	71	78
TITANIUM	2500	3000	2800
VANADIUM	98	95	90
ZINC	62	60	54
URANIUM	<*200	<*200	<*200
MERCURY	<*0.1	<*0.1	<*0.1

MISCELLANEOUS CONVENTIONAL AND NC ONVENTIONAL POLLUTANTS
AND RELATED PAR...ETERS
IN BACKGROUND TRENCH SOIL COMPOSITES

BEAR CREEK WASTE DISPOSAL AREA
NOTE: (1) 1:1 SLURRY, SOIL TO WATER
UNIT=PPM (PARTS PER MILLION) UNLESS OTHERWISE STATED

	DEPTH (IN FEET)		
PARAMETER	0.0-4.0	4.0-8.0	8.0-11.5
SULFATE	158	80	80
NITRATE - N	<*1	<*1	<*1
AMMONIA - N	4.5	2	3
ORTHO PHOSPHATE - P	3.3	1.5	1.4
TOTAL ORGANIC CARBON	2	<*1	<*1
PH (IN PH UNITS)	4.52(1)	4.57(1)	4.69(1)
CATION EXCHANGE CAPACITY (MG/100 GRAMS)	31.1	24.6	24.5

APPENDIX E

ECOLOGICAL STUDIES ASSOCIATED WITH IMPLEMENTAION OF IMPROVED WASTE MANAGEMENT OPERATIONS IN BEAR CREEK VALLEY

APPENDIX E

Ecological Studies Associated with Implementation of Improved Waste Management Operations in Bear Creek Valley

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A Progress Report to

Department of Waste Management

Y-12 Plant

June 1, 1984

Ecological Studies Associated with Implementation
of Improved Waste Management Operations
in Bear Creek Valley

SUMMARY OF PROPOSED STUDIES

The proposed ecological studies of the aquatic biota in Bear Creek watershed are designed to (1) assist in the development of an effective remedial action plan related to past waste disposal operations in Bear Creek Valley and (2) evaluate the effectiveness of major remedial actions by monitoring the ecological recovery of Bear Creek. To meet these objectives, the following tasks will be performed.

(1) Obtain an inventory of the aquatic biota (benthic macroinvertebrate and fish communities) in Bear Creek watershed and a control system (Grassy Creek) by intensive sampling for a period of one year prior to implementation.

(2) Determine the identity and source(s) of toxic substances in Bear Creek by coupling diagnostic laboratory bioassays with chemical analyses.

(3) Monitor the recovery of biota in Bear Creek for several years following implementation of major remedial actions.

To properly evaluate various alternatives for remedial action, the existing environment in Bear Creek and various tributary systems must be characterized, and the identity and source(s) of contaminants that are toxic to biota must be known. By combining the results of ecological field studies on the distribution and abundance of aquatic biota (Task 1) with the results of laboratory bioassays on water samples from sites throughout the watershed (Task 2), potential contaminant sources can be identified and prioritized according to their effects on biota. The bioassay test system that will be used in the fathead minnow (Pimephales promelas) seven-day larval growth test. Because of the complex nature of the effluents entering Bear Creek from various sources (e.g., S-3 ponds, burial grounds, sanitary landfill), further testing may be needed to identify the active components. This last step will combine diagnostic bioassays with chemical analysis, chemical fractionation of toxic mixtures, and confirmatory testing of individual suspected toxicants.

To assess the effectiveness of major remedial actions in mitigating the impacts of past waste disposal practices on the biotic communities in Bear Creek watershed, periodic monitoring will be conducted for several years at a subset of the original sampling sites included in the initial one-year characterization study. The duration of the monitoring period will be dependent upon when the remedial actions are initiated and the results obtained from the ecological studies. Both temporal and spatial changes in benthic macroinvertebrate and fish community structure will be assessed. The effectiveness of the remedial actions will be determined by periodic sampling of selected sites for toxicity testing (bioassays) and by comparisons of the post-mitigation biological samples with (1) samples collected from the same sites during the initial survey, and (2) samples collected during the post-mitigation period from the control stream.

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1. INTRODUCTION

Ecological studies can serve an important role in the development of an effective remedial action plan related to past waste disposal operations in Bear Creek Valley. To properly evaluate various alternatives for remedial action, for example, the identity and source(s) of contaminants that are toxic to biota must be known. By combining the results of field studies on the distribution and abundance of aquatic biota with the results of laboratory bioassays on water samples from sites throughout the watershed, potential contaminant sources can be identified and prioritized according to their effects on biota. Because of the complex nature of the effluents entering Bear Creek from various sources (e.g., S-3 ponds, burial grounds, sanitary landfill), identification of the specific contaminant(s) responsible for the observed toxicity can also be accomplished by coupling diagnostic bioassays with chemical analyses.

Ecological studies can also be used to assess the effectiveness of the remedial actions. Implementation of improved waste disposal operations can result in significant environmental changes. Because documentation of these changes will be an important component in evaluating the success of remedial actions, biological as well as the more traditional water quality criteria will be used to document the recovery process. Aquatic species, for example, exhibit widely different tolerances to contaminants. Reducing the levels of contaminants in the water may or may not result in changes in the biota of the stream. If ecological criteria (e.g., population abundance, species diversity) are included together with water quality criteria as part of the

evaluation process, a more complete measure of the effectiveness of corrective actions will be obtained. Application of these criteria will require (1) baseline information on the biotic communities in the Bear Creek watershed and (2) periodic sampling (monitoring) of these communities for several years following the implementation of remedial actions.

2. REVIEW OF PREVIOUS STUDIES

The first studies of the aquatic biota in Bear Creek were initiated in the mid-1970s. These unpublished studies described the benthic macroinvertebrate communities at various sites in Bear Creek, but sampling was limited to only a few months of the year (McClain 1972; Reece 1973; ERDA 1975). All of these studies documented the dapauperate benthic fauna in upper Bear Creek and an apparent recovery with increasing distance downstream. No fish survived in 24-h _in situ_ bioassays at Bear Creek Kilometer (BCK) 10.5, approximately 500 m below the sanitary landfill (ERDA 1975).

The first comprehensive study of the benthic macroinvertebrate and fish communities in Bear Creek was conducted from May 1975 to April 1976, but sampling was limited to three sites on the lower reaches of the creek below BCK 4.8; the 7-km reach of Bear Creek above this site was not sampled (Exxon Nuclear Co., Inc. 1976). Results indicated lower numbers of pollution-intolerant species at the upper site compared to the two lower sites (Morton 1978). These results, in combination with those obtained in the

earlier studies, suggest that, prior to 1976, impacts of waste discharges from the Y-12 Plant could be observed more than 7 km downstream.

The only additional study after 1976 was short-term reconnaissance-level survey conducted in early January 1984 that was also limited to a specific region of the watershed (Loar and Cox 1984). Very low densities of benthic macroinvertebrates were observed in Bear Creek both above and below the outfall from Oil Retention Pond 1 near BCK 9.7. The relatively high abundance of fish (four species) observed in the lower reaches of the pond outfall was consistent with the results of laboratory bioassays on water from Oil Retention Pond 1 which showed no mortality to juvenile bluegill after 96 h (Giddings 1984). However, the low abundance of fish and benthic invertebrates in Bear Creek above the outfall implies an upstream perturbation of some kind.

Although no species listed as threatened or endangered by either the U.S. Fish and Wildlife Service or the State of Tennessee was collected in the 1984 survey, the mountain redbelly dace (Phoxinus oreas), which is abundant in Bear Creek, has been identified by the Tennessee Wildlife Resources Agency as a species in need of management, a classification assigned to those species which, although not considered threatened within the State of Tennessee, may not currently exist at or near their optimum carrying capacity (Kitchings, in press).

3. DESCRIPTION AND STATUS OF ECOLOGICAL STUDIES

The ecological studies consist of three major tasks, each of which is designed to meet a specific objective. These objectives are:

Task 1: Obtain an inventory of the aquatic biota (benthic macroinvertebrate and fish communities) in Bear Creek watershed

Task 2: Determine the identity and source(s) of toxic substances in Bear Creek by using diagnostic laboratory bioassays

Task 3: Monitor the recovery of biota in Bear Creek following implementation of improved waste disposal practices

Additional information on the approach and procedures associated with each task and the current status of these investigations are provided in the following sections.

3.1 Inventory of Aquatic Biota

Benthic macroinvertebrate and fish communities will be sampled over a 12-month period to (1) characterize the spatial and temporal distribution of biotic communities in Bear Creek watershed prior to implementation of major remedial actions and (2) provide guidance on the selection of alternatives to current waste management operations in Bear Creek Valley. Biological sampling will be conducted at nine sites on Bear Creek between BCK 11.9, approximately 500 m below the S-3 ponds, and BCK 2.8, approximately 1.6 km below the NPDES monitoring station. Routine sampling will also be conducted at three sites on Grassy Creek, a control stream located near the western end of Bear Creek

Valley and unimpacted by waste discharges from the Y-12 Plant. Temporary sampling sites will be located on selected tributaries of Bear Creek.

3.1.1 Benthic macroinvertebrates

A Surber sampler with a 369 μ-mesh net will be used to collect bottom samples from each site. Intensive sampling will be conducted during the initial 6-8 weeks of the study to (1) estimate sample size, (2) determine suitable sampling strata, and (3) identify potentially useful indicator species. The number of samples to be collected routinely at each sampling site depends, in part, on the relationship between the mean and variance of the samples. During the initial sampling period, either 3 or 5 samples (depending upon stream width) were collected. Results from these samples will be used to determine an adequate sample size for the remainder of the study.

Sampling frequency is expected to vary seasonally, since biotic changes occur more rapidly during spring and summer than during the remainder of the year. It is anticipated that monthly sampling will be required from April through September; bimonthly sampling may be adequate for the period from October and March.

Laboratory analyses will consist of (1) separation of organisms from debris in samples; (2) identification of all organisms to lowest possible taxon (species in most cases); and (3) determination of biomass, on a wet-weight basis, for

mollusk and non-mollusk components.

Statistical analyses of the benthic macroinvertebrate data will be based on (1) comparisons between Bear Creek and Grassy Creek, the reference (or control) stream, and (2) characterization of population changes along the length of Bear Creek, and (3) comparisons of each site over time. A measure of similarity (e.g., Bray-Curtis dissimilarity coefficient) or a comparable presence/absence index will be used for inter-station comparisons. If suitable indicator species are identified, then both their presence/absence and their abundance can be used as measures of environmental perturbation and recovery. Changes in the populations of stream biota over time may be followed using the multivariate statistical technique of ordination.

3.1.2 Fishes

Fishes will be sampled on a bimonthly basis using backpack DC electroshockers to obtain estimates of species abundance and biomass at each site. Sites will be extended stream reaches each of which will include one of the riffles used to sample benthic macroinvertebrates. A combination of mark-recapture and removal techniques will be used to obtain the most accurate estimate of abundances possible. This approach will permit the testing of all assumptions of both methods and also will permit adjustments to be made in the estimates obtained from both methods should any violations of assumptions be identified. Biomass estimates will be obtained from empirically based

length-weight regressions for each species and length-frequency data for each species at each site. The resultant abundance and biomass estimates, when expressed on a per unit area basis, will permit comparisons both between sites along the length of Bear Creek and at the same site over time as well as with the control stream, Grassy Creek. The data will also permit comparisons to be made on a community basis.

These benthic macroinvertebrate and fish sampling procedures will also be used to investigate the downstream recovery of biota in Bear Creek. The zone of recovery will be documented for baseflow conditions and following selected storm events. It is hypothesized that episodic inputs of contaminants to Bear Creek may occur during storms, lengthening the stream area experiencing adverse water quality conditions. The subsequent recovery of biota following such events will be monitored.

3.1.3 Current Status

Twelve permanent sampling sites were selected on Bear Creek (nine sites) and Grassy Creek (three sites) in April 1984 (Fig. 1). Site selection was based on several criteria: (1) location of known contaminant sources, including ground water contributions to stream flow from seeps and springs located downstream from S-3 ponds, (2) location of existing water quality monitoring stations, (3) sampling sites utilized in previous studies (e.g., ERDA 1975; Exxon Nuclear Company, Inc., 1976; Loar and Cox 1984), and (4) proposed

sampling sites identified in the Instream Contaminant Study (Higgins and Seawell 1984), a comprehensive study of existing contaminant levels on the DOE Oak Ridge Reservation. Specific riffle areas that will be sampled for benthic macroinvertebrates and included in the fish sampling sites were identified and permanently marked.

A benthic macroinvertebrate sampling program was designed and sampling was initiated on Grassy Creek in late April. Samples were located on transects at 1-m intervals along the length of the riffle and, on a given transect, at one of five locations (three if the stream was narrow) across the stream. Transects and positions on a given transect were randomly selected. Heavy rains and high stream flows in early May interrupted sampling on Bear Creek. All sites, however, were sampled during the post-storm period. Because of the obvious souring effect of the storm on the creek sediments, a second series of samples was collected from Grassy Creek. Fish sampling was initiated in late May but results are not yet available.

The benthic macroinvertebrate samples will be sieved, sorted, and identified by TVA personnel. An initial meeting between staff from ORNL and TVA was held on May 10, 1984, to discuss the scope of work to be performed. After a proposal is received from TVA, it will be reviewed and submitted to the ORNL Subcontracts Office for inclusion in a DOE/TVA Interagency Agreement. Work on this task is scheduled to begin July 1, 1984.

3.2 Identity and Source(s) of Substances Toxic to Aquatic Biota in Bear Creek

Initially, bioassays (see below) will be performed on samples of water (and, where appropriate, sediment) from the nine sampling sites on Bear Creek, selected tributaries, and a control site on Grassy Creek. A significant increase in toxicity between samples from one station and samples from the next station downstream would indicate that toxic materials are entering the creek between the two stations. Reaches where toxicity increases in this manner will be examined more intensively; tributaries and other potential sources of toxicant inputs will be sampled and tested individually in order to identify as precisely as possible the origin of the toxic materials. After the physical sources of the toxicants have been determined, further testing may be needed to identify the active components. This last step will combine bioassays with chemical analysis, chemical fractionation of toxic mixtures, and confirmatory testing of individual suspected toxicants. Finally, certain sites will be selected for periodic sampling and toxicity testing to monitor the effect of upgrading waste management practices during later years.

3.2.1 Bioassay methods

The main criteria for selecting a bioassay test system for this project are (a) sensitivity, (b) efficiency, and (c) standardization and acceptance by EPA. One method that satisfies these criteria is the fathead minnow (*Pimephales promelas*) larval growth test (Norberg and Mount 1983).

The fathead minnow is recognized as a standard bioassay species by the EPA and the scientific community. In the fathead minnow larval growth test, newly-hatched fish are exposed to the test water in flowthrough systems for seven days, after which they are dried and weighed. The average weights of these fish are compared with those of controls (fish grown in parallel systems with standard water) to determine the toxic potential of the test water. Statistical methods are used to determine whether the growth of minnows is significantly lower in the test water that in the controls.

Stock cultures of fathead minnows are maintained by the Environmental Sciences Division and will be enlarged for this project. Fathead minnow bioassays will begin when enough breeding pairs have been established to provide newly-hatched fish for the tests.

3.2.2 Current status

Aquatic bioassays (toxicity tests) using water from Bear Creek and its tributaries have been delayed by difficulties in establishing breeding stocks of the test organism, the fathead minnow. The first results are expected by the end of June. Depending on the numbers of larval fish that become available (40 individuals are needed for each sample tested), from six to eight sites will be included in the first series of tests. Sites chosen for this initial screening include those on upper Bear Creek above BCK 9.0 and the

upper site on Grassy Creek (GCK 2.7). An additional control site (GCK 1.4) and a site on lower Bear Creek (BCK 4.8) will also be included if sufficient numbers of fish are available.

3.3 Recovery of Biota in Bear Creek

After the initial 12-month survey, a subset of the original sampling sites will be selected to monitor the recovery of aquatic biota for several years following implementation of the remedial action plan. Final site selection will be based on (1) results obtained from the baseline survey and the toxicity studies, (2) results of the TVA Instream Contaminant Study (Higgins and Seawell 1984), and (3) review of proposed remedial action plans. Methods similar to those utilized in the initial baseline survey will be employed. The effectiveness of the remedial actions will be determined by comparisons of the post-mitigation biological samples with (1) samples collected from the same sites during the initial survey, and (2) samples collected from the control stream (Grassy Creek) during the post-mitigation period.

4. PRELIMINARY CONCLUSIONS

Past waste disposal operations at the Y-12 Plant have had a significant adverse impact on the aquatic biota of Bear Creek. Based on the results of studies in the mid-1970s of the benthic invertebrate communities, the impact occurred over a 7-km reach of Bear Creek from the headwaters to a region of

the creek near the NPDES station at BCK 4.7. Recent evidence suggests, however, that some recovery has occurred over the past ten years. For example, fish were collected in 1984 at a site on Bear Creek only 500 m below the site of the 1974 in situ bioassays where 100% mortality was observed. Moreover, fish were observed recently in several reaches of upper Bear Creek and various tributaries (D. K. Cox, personal observation); no fish, however, were collected in 1974 at two sites located 50 m and 100 m below the Y-12 Sanitary Landfill (ERDA 1975). Important pollution abatement achievements that occurred over this 10-year period include (1) reduction in nitrate levels in the S-3 ponds in the mid-1970s, (2) neutralization of the S-3 ponds in June 1983, and (3) denitrification of the S-3 ponds, a process initiated in 1983 and continuing to the present.

Inferences regarding biotic recovery should be viewed as hypotheses that will be further examined in the present study. Direct evidence of a casual relationship between reductions in pollutant discharges and changes in aquatic fauna does not exist. Furthermore, evaluations of biotic recovery should be based on an analysis of the benthic invertebrate communities in Bear Creek, in addition to the fish communities. The present occurrence of fish in upper Bear Creek may only be a temporary phenomenon reflecting short-term changes in water quality. Because of its periodic occurrence, such a phenomenon may not have been detected by the limited sampling conducted in 1974-1975. Until additional data are obtained, such an explanation cannot be rejected.

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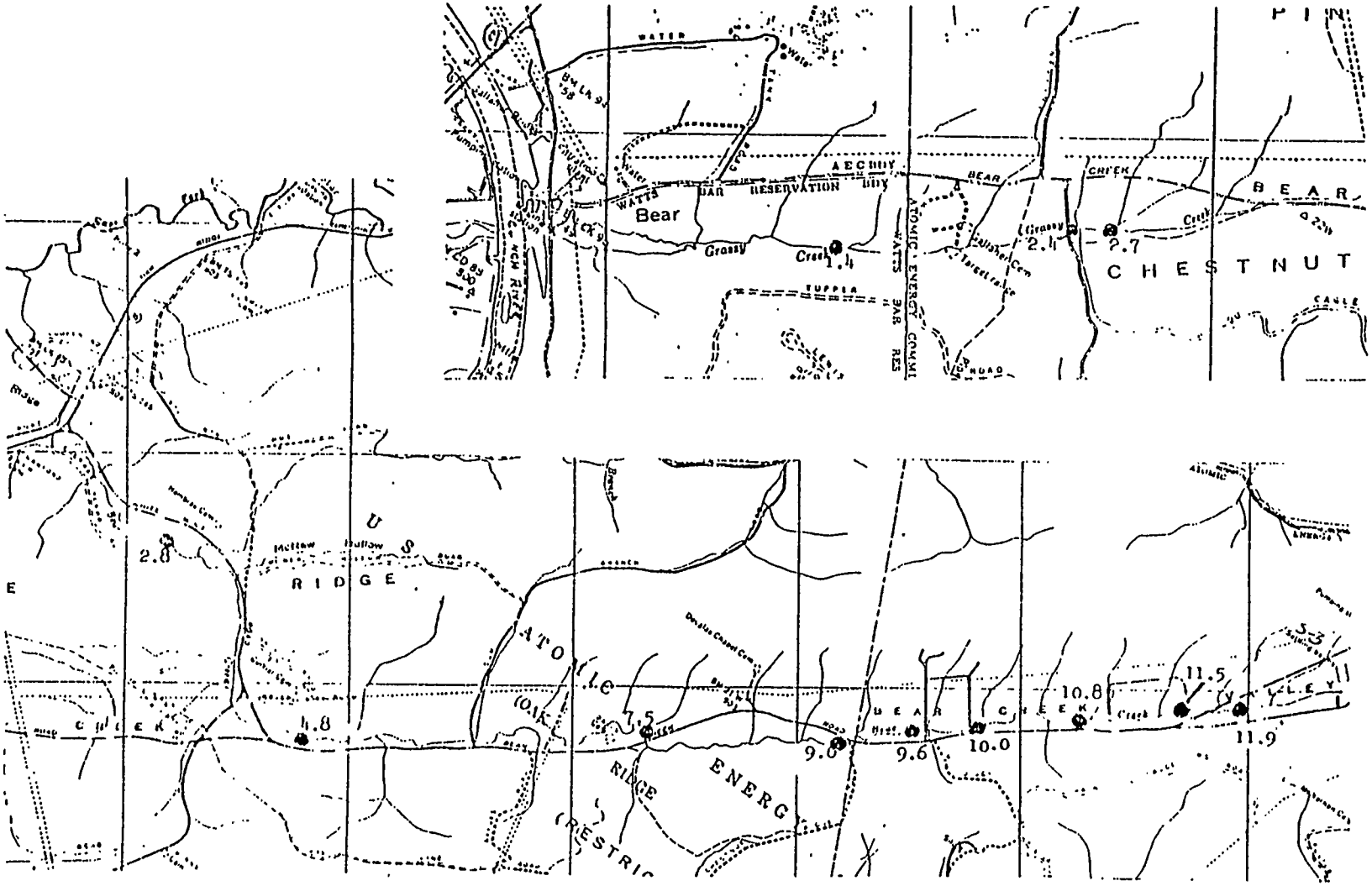

Fig. 1 Location of biological sampling sites on Bear Creek and Grassy Creek (control). Numbers above/below the sites refer to the distance (km) above the mouth of the creek.