West Valley Demonstration Project

Doc. Number WVDP-RFI-018

Revision Number 0

Revision Date 09/22/95

Controlled Copy No

UNCONTROLLED COPY
DO NOT USE FOR WORK

Resource Conservation and Recovery Act
Facility Investigation Report
Volume 2
Nuclear Regulatory Commission-licensed Disposal Area

West Valley Demonstration Project
West Valley, New York

APPROVED BY _____ L.E. Krieger
Cognizant Engineer

APPROVED BY _____ C.L. Repp
Cognizant Manager

West Valley Nuclear Services Co., Inc.

P.O. Box 191

West Valley, NY 14171-0191

RFI:0003008.RM

WV-1816, Rev. 1

WEST VALLEY NUCLEAR SERVICES CO., INC.
RECORD OF FIELD/PAGE CHANGE

Document ID No. WVDP-RFI-018 Rev. No. 0 Date 03/07/96
Field/Page Change No. 2 Cognizant Author L. E. Krieger
Page 1 of 1

Page No.	Section No.	Description of Changes
18, 18a, 18b, 18c, 18d, 19	2.2.2 (k)	Section rewritten to clarify information.
45	Section 4.1	Changed liquid quantity to be consistent with Table 4-1.
55	Section 5.0	Changed the DEIS issue date to 1996.
99-102	Table 4-1	Table completely replaced. Changes include: table title; addition of footnotes; and 6NYCRR 371.4 constituents not identified as RCRA hazardous constituents in 6NYCRR App. 23 were also added to table. Chemicals on Table were alphabetized.

Cog. Manager ✓ if FC or PC Constitutes a Period.Review

Laurence E. Krieger 3/8/96
Cognizant Author Date

Craig J. Ryan 3/8/96
Cognizant Manager Date [ ]

Date Date

Date Date

Date Date

USQD, WV-3306: [ ] Attached
[X] Not Attached; USQD Safety Exclusion Previously completed and sent

WV-1240, Rev. 9
RFI:0003008.RM

WEST VALLEY NUCLEAR SERVICES CO., INC.
RECORD OF FIELD/PAGE CHANGE

Document ID No. WVDP-RFI-018 Rev. No. 0 Date 01/17/96
Field/Page Change No. 1 Cognizant Author R. L. Werchowski
Page 1 of 1

Page No.	Section No.	Description of Changes
59	References	WVNS. July 3, 1991 - Add "Rev. 0." after "WVNS-SAR-017."
59	References	To WVNS. Spring 1992 - Change "WVDP-RFI:001" to "WVDP-RFI-001"

Cog. Manager ✓ if FC or PC Constitutes a Period.Review

Rebecca L. Werchowski 1/17/96 Craig F. Rapp 1/17/96
Cognizant Author Date Cognizant Manager Date [ ]

Date Date

Date Date

Date Date

USQD, WV-3306: [ ] Attached
[X] Not Attached; USQD Safety Exclusion Previously completed and sent to Records Management (per WV-914).

WV-1240, Rev. 9
RFI:0003008.RM

WVNS RECORD OF REVISION

DOCUMENT

If there are changes to the controlled document, the revision number increases by one. Indicate changes by one of the following:

- Placing an arrow at the beginning of the sentence or paragraph that was revised
- Placing a vertical black line in the margin adjacent to sentence or paragraph that was revised
- Placing the words GENERAL REVISION at the beginning of the text
- Placing either FC#> or PC#> at the beginning of a field/page change

Example:

The arrow in the margin indicates a change. >
The vertical line in the margin indicates a change. |

Rev. No.	Description of Changes	Revision On Page(s)	Dated
0	Original Issue	All	09/22/95
PC1	Update references	59	01/22/96
PC2	Clarification of Section 2.2.2 (k); Table 4-1 insertions, and revised DEIS issue date.	18, 18a, 18b, 18c, 18d, 19, 45, 55, 99 - 102	03/08/96

WVNS RECORD OF REVISION CONTINUATION FORM

Rev. No.	Description of Changes	Revision On Page(s)	Dated

Resource Conservation and Recovery Act
Facility Investigation Report
Volume 2
Nuclear Regulatory Commission-licensed Disposal Area

West Valley Demonstration Project
West Valley, New York

Prepared for:

U.S. Department of Energy
Ohio Field Office
West Valley Area Office

October 1995

Prepared by:

Dames & Moore for

West Valley Nuclear Services Co., Inc.
P.O. Box 191
Rock Springs Road
West Valley, New York 14171

Resource Conservation and Recovery Act
Facility Investigation Report
Volume 2
Nuclear Regulatory Commission-licensed Disposal Area

Table of Contents

Page

List of Acronyms xi
Key to Analyte Abbreviations xiii

1.0 Introduction 1

1.1 Purpose and Objective 1
1.2 Information Contained in this Report 1

2.0 Source Characterization 3

2.1 Location and Description of the NDA 3
2.1.1 Unit/Disposal Area Description and Operating History 3
2.1.2 Closure and Maintenance 10
2.2 Waste Characterization 11
2.2.1 Type and Quantity of Waste 11
2.2.2 Physical and Chemical Characteristics 13
2.3 Previous Investigations 21

3.0 NDA Characterization 25

3.1 Methodology 25
3.1.1 Field Sampling Activities 25
3.1.2 Quality Assurance/Quality Control Samples 28
3.1.3 Decontamination Procedures 28
3.2 Site Investigation Results 28
3.2.1 Groundwater 28
3.2.2 Soil and Stream Sediment 36
3.2.3 Air 43

4.0 Fate and Transport 45

4.1 Chemicals Identified in the NDA 45
4.2 Chemical Properties and Toxic Profile of Predominant Waste Constituents 45
4.3 Pathway Assessment 48
4.3.1 Groundwater Pathway 48
4.3.2 Surface Water Pathway 50
4.3.3 Atmospheric Pathway 50
4.4 Potential Human Receptors 50
4.4.1 Operator Personnel within the NDA 50
4.4.2 On-site Personnel 51
4.4.3 General Population 51

Table of Contents *(concluded)*

5.0 Conclusions and Recommendations 53

References 57

Appendix A. NDA Waste Profile; Drawing 900E-4974 (NDA Base Map); Groundwater Surface in Weathered Till Unit May 1993
Appendix B. Characteristics of Chemical Constituents Known to be Disposed in the NDA
Appendix C. Boring Logs for BH-41, BH-42, and BH-39
Appendix D. Boring Logs and Construction Diagrams for the Weathered Till, Unweathered Till, and the Kent Recessional Sequence
Appendix E. Contamination Indicator Data for the Weathered Till, Unweathered Till, and the Kent Recessional Sequence
Appendix F. Expanded Groundwater Program Data
Appendix G. Shallow Soil Sampling Analytical Data
Appendix H. Soil Chemical Data from BH-39, BH-41, and BH-42
Appendix I. Chemical Data from Locations ST-22, ST-23, and ST-24

List of Tables

2-1. NFS Burial Hole Summary: NDA Burial Area

2-2. NDA Map and Database Discrepancies

2-3. Settlement Plate Elevation Data from NDA Trench 11

2-4. Summary of WVDP Disposals in the NDA

2-5. NDA Trenches 8, 9, and 11 Standpipe Monitoring Results (WVDP)

2-6. Fuel Reprocessing Chemicals Used in NFS Operations

2.7. NDA Roll-off Composite Soils Radionuclide Sampling Results

2-8. NDA Waste Disposal Summary Profile

2-9. Known TBP/n-Dodecane Disposals in the NDA

3-1. Chemical Analyses Performed at NDA Surface Soil Sampling Locations

3-2. Chemical Analyses Performed at NDA Borehole Sampling Locations

3-3. Chemical Analyses Performed at NDA Stream Sediment Sampling Locations

3-4. Schedule of Groundwater Sampling and Analysis

3-5. Hydraulic Properties and Groundwater Velocities of the Principal Water-bearing Units at the NDA

3-6. Summary of Positive Detections of Organic Compounds in Groundwater from the Weathered Lavery Till (Fourth-quarter 1993 and Second-quarter 1994 Expanded Groundwater Characterization)

3-7. Fourth-quarter 1993 TAL Metals Concentrations in Weathered Lavery Till Groundwater at the NDA

3-8. Second-quarter 1994 TAL Metals Concentrations in Weathered Lavery Till Groundwater at the NDA

3-9. Fourth-quarter 1993 TAL Metals Concentrations in Unweathered Lavery Till Groundwater at the NDA

3-10. Second-quarter 1994 TAL Metals Concentrations in Unweathered Lavery Till Groundwater at the NDA

3-11. Organic Compounds Detected in Surface Soil in the NDA

List of Tables *(concluded)*

3-12. TAL Metals Concentrations in Soil from Surface Soil Locations at the NDA

3-13. Radioisotopes Exceeding Background Concentrations at Surface Soil Sampling Locations

3-14. Organic Compounds Detected in Boreholes 41 and 42 at the NDA

3-15. TAL Metals Concentrations Ranges in Soil from Boreholes at the NDA

3-16. Radioisotopes Exceeding Background Concentrations at Borehole Sampling Locations

3-17. TAL Metals Concentrations from Stream Sampling Locations at the NDA

3-18. Radioisotopes Exceeding Background Concentrations at Stream Sampling Locations

4-1. Hazardous Constituents Associated with Laboratory Chemicals Disposed in the NDA During the 1983 Disposal Campaign

5-1. Weathered Lavery Till Water Levels Across the NDA and the Interceptor Trench

5-2. NDA Groundwater Monitoring Program (SSWMU #9)

List of Figures

1-1. Location of the NDA at the West Valley Demonstration Project

2-1. Conceptual Drawing of Caissons

2-2. Conceptual Drawing of Trenches 1-7, 10, and 12

2-3. Conceptual Drawing of Trenches 8, 9 and 11

2-4. NDA Utility Map

3-1. Borehole, Surface Soil, and Sediment Sampling Locations at the NDA

3-2. Location of the NDA in the South Plateau

3-3. Weathered Lavery Till Groundwater Monitoring Wells at the NDA

3-4. Arsenic in Weathered Lavery Till

3-5. Barium in Weathered Lavery Till

3-6. Cadmium in Weathered Lavery Till

3-7. Chromium in Weathered Lavery Till

3-8. Mercury in Weathered Lavery Till

3-9. Lead in Weathered Lavery Till

3-10. Selenium in Weathered Lavery Till

3-11. Silver in Weathered Lavery Till

3-12. Unweathered Lavery Till Groundwater Monitoring Wells at the NDA

3-13. Arsenic in Unweathered Lavery Till

3-14. Barium in Unweathered Lavery Till

3-15. Cadmium in Unweathered Lavery Till

3-16. Chromium in Unweathered Lavery Till

3-17. Mercury in Unweathered Lavery Till

3-18. Lead in Unweathered Lavery Till

List of Figures *(concluded)*

3-19. Selenium in Unweathered Lavery Till

3-20. Silver in Unweathered Lavery Till

3-21. Kent Recessional Sequence Groundwater Monitoring Wells at the NDA

3-22. Arsenic in the Kent Recessional Sequence

3-23. Barium in the Kent Recessional Sequence

3-24. Cadmium in the Kent Recessional Sequence

3-25. Chromium in the Kent Recessional Sequence

3-26. Mercury in the Kent Recessional Sequence

3-27. Lead in the Kent Recessional Sequence

3-28. Selenium in the Kent Recessional Sequence

3-29. Silver in the Kent Recessional Sequence

3-30. Sampling Locations for On-site Surface Water

3-31. Seven-year Trends of Gross Alpha, Gross Beta, and Tritium Concentrations at Sampling Location WNNDADR

List of Acronyms

A&PC	Analytical and Process Chemistry (Laboratory)
ANOVA	Analysis of Variance
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPC	Chemical Process Cell
DCG	Derived Concentration Guide
DOE	(U.S.) Department of Energy
EIS	Environmental Impact Statement
EPA	(U.S.) Environmental Protection Agency
EP Tox	Extraction Procedure Toxicity Characteristic
FRS	Fuel Receiving and Storage
FSFCA	Federal and State Facility Compliance Agreement
HEPA	High-efficiency Particulate Air (filter)
HLW	High-level Waste
IWSF	Interim Waste Storage Facility
LLWTF	Low-level Waste Treatment Facility
LPS	Liquid Pretreatment System
MCL	Maximum Concentration Limit
MSDS	Material Safety Data Sheet
NDA	NRC-licensed Disposal Area
NESHAPs	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
NFS	Nuclear Fuel Services, Inc.
NIOSH	National Institute for Occupational Safety and Health
NPOC	Nonpurgeable Organic Carbon
NRC	Nuclear Regulatory Commission
NYSDEC	New York State Department of Environmental Conservation
NYSERDA	New York State Energy Research Development Authority
PCB	Polychlorinated Biphenyl
PVC	Polyvinyl Chloride
QAPjP	Quality Assurance Project Plan
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation

List of Acronyms *(concluded)*

SDA	(New York) State-licensed Disposal Area
SDWA	Safe Drinking Water Act
SOP	Standard Operating Procedure
SPDES	State Pollutant Discharge Elimination System
SSWMU	Super Solid Waste Management Unit
SVOC	Semivolatile Organic Compound
SWMU	Solid Waste Management Unit
TAGM	(NYSDEC's) Technical and Administrative Guidance Memorandum
TAL	Target Analyte List
TBP	Tributyl Phosphate
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TLV	Threshold Limit Values
TOC	Total Organic Carbon
TOX	Total Organic Halogens
VOC	Volatile Organic Compound
WNYNSC	Western New York Nuclear Service Center
WVDP	West Valley Demonstration Project
WVNS	West Valley Nuclear Services Co., Inc.

Key to Analyte Abbreviations in
Appendices F, G, H, and I

ABBREVIATIONS	ANALYTES
acetone	Acetone
acnitril	Acetonitrile
acrolein	Acrolein
acrynitr	Acrylonitrile
allylcl	Allyl chloride
benzene	Benzene
br_meth	Methyl bromide
brdcmeth	Bromodichloromethane
brform	Bromoform
c_13_dcp	cis-1,3-Dichloropropene
ccl4	Carbon tetrachloride
cl_benz	Chlorobenzene
cl_eth	Chloroethane
cl_form	Chloroform
cl_meth	Methyl chloride
cl_prene	Chloroprene
clevthr	2-Chloroethylvinyl ether
cs2	Carbon disulfide
dbc_meth	Dibromochloromethane
dbc_prop	DBCP
dbeth_12	1,2-Dibromoethane
dca_11	1,1-Dichloroethane
dca_12	1,2-Dichloroethane
dcdfmeth	Dichlorodifluoromethane
dce_11	1,1-Dichloroethylene
dcp_12	1,2-Dichloropropane
diox_14	1,4-Dioxane

ABBREVIATIONS	ANALYTES
eth_benz	Ethyl benzene
eth_meth	Ethyl methacrylate
hexnone2	2-Hexanone
ibut_alc	Isobutyl alcohol
meacryln	Methacrylonitrile
mek	Methyl ethyl ketone
mene_br	Methylene bromide
mene_cl	Methylene chloride
meth_i	Methyl iodide
methmeac	Methyl methacrylate
mibk	4-Methyl-2-pentanone
picoline	2-Picoline
pntcleth	Pentachloroethane
propnitl	Propionitrile
pyridine	Pyridine
styrene	Styrene
t_13_dcp	trans-1,3-Dichloropropene
t_14dc2b	trans-1,4-Dichloro-2-butene
tca_111	1,1,1-Trichloroethane
tca_1112	1,1,1,2-Tetrachloroethane
tca_112	1,1,2-Trichloroethane
tca_1122	1,1,2,2-Tetrachloroethane
tcf_meth	Trichlorofluoromethane
tcp_123	1,2,3-Trichloropropane
tetcleth	Tetrachloroethylene
toluene	Toluene
tricleth	Trichloroethylene
vnyl_ace	Vinyl acetate
vnyl_cl	Vinyl chloride

ABBREVIATIONS	ANALYTES
xylene	Xylene (Total)
PESTICIDES	
a_bhc	alpha-BHC
aldrin	Aldrin
b_bhc	beta-BHC
chlrdane	Chlordane (Total)
d_24	2,4-D
d_bhc	delta-BHC
ddd_44	4,4'-DDD
dde_44	4,4'-DDE
ddt_44	4,4'-DDT
dieldrin	Dieldrin
dinoseb	Dinoseb
disulftn	Disulfoton
endos_1	Endosulfan I
endos_2	Endosulfan II
endos_s	Endosulfan sulfate
endrin	Endrin
endrn_al	Endrin aldehyde
endrn_kt	Endrin ketone
g_bhc	gamma-BHC (Lindane)
hept_clr	Hepatachlor
hept_epx	Hepatachlor epoxide
meth_par	Methyl parathion
meth_xcl	Methoxychlor
pcb_1016	PCB-1016
pcb_1221	PCB-1221
pcb_1232	PCB-1232

ABBREVIATIONS	ANALYTES
pcb_1242	PCB-1242
pcb_1248	PCB-1248
pcb_1254	PCB-1254
pcb_1260	PCB-1260
phorate	Phorate
silvex	Silvex
t_245	2,4,5_T
toxaphen	Toxaphene
METALS	
ag_t	Silver
al_t	Aluminum
as_t	Arsenic
b_t	Boron
ba_t	Barium
be_t	Beryllium
ca_t	Calcium
cd_t	Cadmium
co_t	Cobalt
cr_t	Chromium
cu_t	Copper
fe_t	Iron
hg_t	Mercury
k_t	Potassium
mg_t	Magnesium
mn_t	Manganese
mo_t	Molybdenum
na_t	Sodium
ni_t	Nickel

ABBREVIATIONS	ANALYTES
pb_t	Lead
sb_t	Antimony
se_t	Selenium
sn_t	Tin
ti_t	Titanium
tl_t	Thallium
v_t	Vanadium
zn_t	Zinc
SEMIVOLATILES	
aadimthp	alpha, alpha-Dimethylphenethylamine
aceanfl2	2-Acetylaminofluorene
acetophn	Acetophenone
acnphthe	Acenaphthene
acnphthy	Acenaphthylene
amnobph4	4-Aminobiphenyl
aniline	Aniline
antracn	Anthracene
aramite	Aramite
benz_alc	Benzyl alcohol
benzdine	Benzidine
bis2ceth	Bis(2-chlorethyl)ether
bis2cexy	Bis(2-chloroethoxy)methane
bis2clis	Bis(2-chloroisopropyl)ether
bis2ehex	Bis(2-ethylhexyl)phthalate
bnz_a_an	Benzo[a]anthracene
bnz_a_py	Benzo[a]pyrene
bnz_b_fl	Benzo[b]fluoranthene
bnz-k-fl	Benzo[k]fluoranthene

ABBREVIATIONS	ANALYTES
bnzc_acd	Benzoic acid
bnzghipr	Benzo[ghi]perylene
brppeth4	4-Bromophenyl phenyl ether
butbnzph	Butyl benzyl phthalate
carbazol	Carbazole
chppeth4	4-Chlorophenyl phenyl ether
chrysene	Chrysene
clbnzilt	Chlorobenzilate
clnapht2	2-Chloronaphthalene
clphen_2	2-Chlorphenol
dbahanth	Dibenz[a,h]anthracene
dcb_33	3,3'-Dichlorobenzidine
dethylpy	0,0-Diethyl 0-2-pyrazinyl-phosphorothiaoate
diallate	Diallate
dibnzfur	Dibenzofuran
diclph24	2,4-dichlorophenol
diclph26	2,6-Dichlorophenol
diethyph	Diethyl phthalate
dimthoat	Dimethoate
dimthp24	2,4-dimethylphenol
dimthyph	Dimethyl phthalate
dinbutph	Di-n-butyl phthalate
dinoctph	Di-n-octyl phthalate
dintrp24	2,4-Dinitrophenol
dintrt24	2,4-Dinitrotoluene
dintrt26	2,6-Dinitrotoluene
diphhyl2	1,2-Diphenylhydrazine
diphnyam	Diphenylamine
dmb_33	3,3'-Dimethylbenzidine

ABBREVIATIONS	ANALYTES
dmb_7_12	7,12-Dimethylbenz[a]anthracene
dntrcr46	4,6-Dinitro-o-cresol
ethmthsl	Ethyl methanesulfonate
famphur	Famphur
flranthn	Fluoranthene
fluorene	Fluorene
hexclbnz	Hexachlorobenzene
hexclbut	Hexachlorobutadiene
hexcleth	Hexachloroethane
hexclpen	Hexachlorocyclopentadiene
hexclphn	Hexachlorophene
hexclpro	Hexachloropropene
indnpyre	Indeno(1,2,3,-cd)pyrene
isodrin	Isodrin
isophron	Isophorone
isosfrol	Isosafrole
kepone	Kepone
m_cresol	m-Cresol
m_dclbnz	m-Dichlorobenzene
m_dntbnz	m-Dinitrobenzene
m_ntranl	m-Nitroaniline
me_mnso4	Methyl methanesulfonate
mthchla3	3-Methylcholanthrene
mthpriln	Methapyrilene
mthynph2	2-Methylnaphthalene
n_dodcan	N-Dodecane
naphthal	Naphthalene
naphthy2	2-Naphthylamine
nntrethy	N-Nitrosodiethylamine

ABBREVIATIONS	ANALYTES
nntrmeet	N-Nitrosomethylethylamine
nntrmorp	N-Nitrosomorpholine
nntrmthy	N-Nitrosodimethylamine
nntrnbut	N-Nitrosodi-n-butylamine
nntrphny	N-Nitrosodiphenylamine
nntrpipr	N-Nitrosopiperidine
nntrprpy	N-Nitrosodi-n-propylamine
nntrpyrr	N-Nitrosopyrrolidine
nphthyl1	1-Naphthylamine
npthqn14	1,4-Naphthoquinone
ntr5_ot1	5-Nitro-o-toluidine
ntrobenz	Nitrobenzene
ntrq4_1o	4-Nitroquinoline 1-oxide
o_cresol	o-Cresol
o_dclbnz	o-Dichlorobenzene
o_ntranl	o-Nitroaniline
o_ntrphn	o-Nitrophenol
o_toludn	o-Toluidine
p_dclbnz	p-Dichlorobenzene
p_ntranl	p-Nitroaniline
p_ntrphn	p-Nitrophenol
p_cresol	p-Cresol
p_phndam	p-Phenylenediamine
parthion	Parathion
pclranil	p-Chloroaniline
pclrmcrs	p-Chloro-m-cresol
pdimthaz	p-(Dimethylamino)azobenzene
phenol	Phenol
phnacetn	Phenacetin

ABBREVIATIONS	ANALYTES
phnanthr	Phenanthrene
pntclbnz	Pentachlorobenzene
pntclnbn	Pentachloronitrobenzene
pntclphn	Pentachlorophenol
prnamide	Pronimide
pyrene	Pyrene
safrole	Safrole
symtrbnz	sym-Trinitrobenzene
tcb_124	1,2,4-Trichlorobenzene
tcb_1245	1,2,4,5-Tetrachlorobenzene
tclph245	2,4,5-Trichlorophenol
tclph246	2,4,6-Trichlorophenol
tcph2346	2,3,4,6-Tetrachlorophenol
trbutphs	Tributylphosphate
triethph	0,0,0-Triethyl phosphorothiaoate
ttraethd	Tetraethyl dithiopyrophosphate

Key to Tentatively Identified Compounds by Abbreviation Name

ABBREVIATIONS	ANALYTES
VOLATILES	
hexane	Hexane
tctf_eth	Ethane, 1,1,2-Trichloro, 1,2-Trifluoro
toluene	Toluene
SEMIVOLATILES	
butoxeth	Ethanol -2(2-Butoxyethoxy)
camphene	Camphene
cyclhptr	1,3,5 Cycloheptatriene
cyclobut	Cyclobutene, Z-Propenylidine
dietgyac	Dithylene Glycol Monobutyl Ether Acetate
docosane	Docosane
hexlmeth	Hexanedioic acid, bis (1-meth...)
hexacdio	Hexanedioic acid, dioctyles
hexdcac9	9-Hexadecenoic Acid
hexdcacd	Hexadecanoic Acid
octconte	1-iodo-Octatetracontane
pntdecan	Pentadecane
tetrdcac	Tetradecanoic Acid
tetrdencn	Tetradecane
undecane	Undecane

1.0 Introduction

1.1 Purpose and Objective

The purpose and objective of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) is to determine the nature and extent of releases of hazardous waste or hazardous constituents, as defined in section III.1 of the Administrative Order on Consent (Docket No. II RCRA-3008(h)-92-0202), from solid waste management units (SWMUs) at the West Valley Demonstration Project (WVDP). Pursuant to the RFI Work Plan (West Valley Nuclear Services Co., Inc. December 1993), the primary goal of this investigation is to collect and evaluate information to determine which of the following actions are appropriate for each SWMU or super SWMU (SSWMU): no further action; a corrective measures study; or additional investigations to support one of the other actions.

The intent of this particular volume, Volume 2 of the Resource Conservation and Recovery Act Facility Investigation Report, Nuclear Regulatory Commission-licensed Disposal Area, is threefold: 1) to detail the source and contamination characteristics of the facilities associated with the Nuclear Regulatory Commission (NRC)-licensed Disposal Area (NDA); 2) to identify any potential receptors of contamination that exist as a result of operations at this unit; 3) to develop conclusions and recommendations regarding information specific to the contamination assessment of the facility obtained during the RFI.

General information pertaining to the Western New York Nuclear Service Center (WNYNSC), the regulatory history of the WVDP, the environmental setting of the site, and potential receptors of contaminants are contained in Volume 1 of this RFI report, Introduction and General Site Overview, WVDP-RFI-017 (West Valley Nuclear Services Co., Inc. December 1994).

1.2 Information Contained in this Report

Twelve SSWMUs at the WVDP have been identified in the Administrative Order on Consent. This volume of the RFI report, Volume 2, contains information resulting from the investigation of SSWMU #9, the NDA (Figure 1-1).

The location, design features, operating history, and waste management activities at SSWMU #9 are described in section 2.0. Information here includes a description of the original function, the materials disposed in the facility, and the current status of the facility. The results of the investigation are found in section 3.0. Information on potential receptors of contamination is in section 4.0. Conclusions and recommendations are in section 5.0.

THIS PAGE INTENTIONALLY LEFT BLANK

2.0 Source Characterization

2.1 Location and Description of the NDA

The NDA is located approximately 366 meters (1,200 ft) southeast of the process building and covers an area of 2.07 hectares (5.12 acres). The NDA is bounded by Erdman Brook to the north and the New York State-licensed disposal area (SDA) to the east. (See Fig. 1-1.)

Radioactive solid waste was disposed at the NDA by Nuclear Fuel Services, Inc. (NFS) from 1966 to 1982 and by the U.S. Department of Energy's (DOE) WVDP from 1982 to 1986. Seven waste management areas have been identified at the NDA. (See Drawing 900E-4974 in Appendix A.)

- The NFS waste burial area and closed surface water drainage pond
- The WVDP waste burial area
- The interim waste storage facility (IWSF)
- The NDA interceptor trench and liquid pretreatment system (LPS)
- The NDA hardstand
- The lagoon 2 transfer line
- The NDA interceptor trench soil container area.

Waste generation and management practices for each of these areas are described and evaluated in this section to assess whether RCRA-defined hazardous waste and/or hazardous constituents were or are present in these areas. The information in this section was developed from:

- a review of historical and present-day operational practices to evaluate whether RCRA-defined hazardous waste and/or hazardous constituents may have been disposed in the NDA during its active life. (Specific references used to develop this report are identified in the text.)

- interviews with personnel with historical knowledge of operations.

- information contained in two computer databases, based on disposal logs, which were used to generate estimates of quantity, location, and a general description of wastes disposed in the NDA.

- a review of recent documented inspections, maintenance records, and available drawings of the facility layout.

2.1.1 Unit/Disposal Area Description and Operating History

The NDA and the former NFS fuel reprocessing plant were licensed in 1963 by the U.S. Atomic Energy Commission (now the NRC). Section 4.13 of the operating license stipulated the minimum requirements for "solid radioactive waste burial" in the NDA: all wastes were to be buried completely within the silty till; burial was restricted to the area drained by Erdman Brook and Frank's Creek; the cover had to be a minimum of 4 feet of silty till over the waste as measured down from the top of the undisturbed silty till stratum; and waste markers (cairns) and disposal records were

to be maintained. No other specific design or maintenance criteria were identified in the license for the disposal area.

The waste burial area is a rectangle measuring approximately 113 meters by 183 meters (370 ft by 600 ft); its four corners are marked by concrete cairns. (See Drawing 900E-4974 in Appendix A.) The waste burial area was used by both NFS and the WVDP for disposal of solid radioactive waste.

• NFS Disposal Area Design and Operating History

From 1966 to 1982 NFS disposed radioactive solid waste in 237 burial holes in a U-shaped area around the east, north, and west sides of the NDA. (See ruled area on Drawing 900E-4974 in Appendix A.) NFS used two types of burial holes for its waste disposal: deep holes and special holes (SH). The deep holes were dug with a clamshell crane and are approximately 0.8 meters wide, 2 meters long, and about 15 meters deep (32 in x 78 in x 50 ft). The special holes were shallower burial holes dug with a backhoe or a bulldozer. These holes were of various horizontal dimensions with a depth of approximately 6 meters (20 ft).

The locations and dimensions of the burial holes on Drawing 900E-4974 are approximated since the exact location of every burial hole in the NDA has not been field-verified because of the proximity of the holes to each other.

The disposal dates, volume, and type of waste disposed in each of the NFS burial holes is summarized in Table 2-1. Table 2-1 is based on NFS disposal records, copies of NFS disposal tickets available on microfiche, and NFS disposal logbooks.

Some discrepancies were identified during review of the NDA waste disposal database and Drawing 900E-4974. These include burial holes shown on Drawing 900E-4974 that the database reports as not having received waste and burial holes identified as having received waste but that are not shown on Drawing 900E-4974. The discrepancies identified have been summarized and are included as Table 2-2.

NFS' disposals of radioactive solid waste generated during nuclear fuel reprocessing operations included fuel hulls, general waste such as radioactively contaminated clothing and equipment, fuel canisters, ruptured fuel assemblies encased in concrete, and spent ion-exchange resins and diatomaceous filter media. (See Table 2-1.) Waste such as fuel hulls and ruptured fuel, with high radioactive dose rates, were buried in the deep holes. The special holes were used for material with lower dose rates.

Burial records indicate that a location termed "Pete's Pond" was used for burial of soils generated in the lagoon 3 clean-out in June 1972. Review of historical aerial photographs indicate that a depression existed in what is now the location of the IWSF. The approximate location of Pete's Pond is shown in Appendix A, near the north corner of the NDA west of the LPS. The pond was reportedly used for surface water run-off control. Later photographs of the NDA do not indicate the presence of the pond, and it is believed that it was closed during the June 1972 soil burial activities.

Most of the low-dose-rate waste generated by the process building (less than 200 mrem/hr) was disposed in the SDA until its closure in 1975. After 1975 all solid radioactively contaminated process building-generated waste was disposed in the NDA. Liquid waste was generally routed to the high-level waste (HLW) tanks or the low-level waste treatment facility (LLWTF). However, some immiscible liquids such as n-dodecane and tributyl phosphate (TBP/n-dodecane) were adsorbed on vermiculite and disposed in the NDA.

NFS disposal records indicate that at least twenty-two 3,785-liter (1,000-gal) tanks containing a mixture of TBP/n-dodecane used in the fuel reprocessing solvent extraction process were disposed in several special holes during the late 1960s and the early 1970s (Blickwedehl et al. 1987). (See Table 2-1.) The presence of TBP/n-dodecane in a monitoring well within the NDA on November 30, 1983 indicated that the TBP/n-dodecane had migrated from the burial holes. The migration was attributed to water accumulating in the burial holes.

The source of the TBP/n-dodecane was believed to be from eight tanks buried in SH-10 and SH-11 between October 9, 1969 and November 19, 1969 in the northeast corner of the NDA. (See Drawing 900E-4974 in Appendix A.) The following actions were taken by the WVDP between October 1985 and May 1987 (before implementation of the 3008(h) Administrative Order on Consent) to mitigate the migration of TBP/n-dodecane (Blickwedehl et al. 1987):

- Eight 3,785-liter (1,000-gal) tanks containing TBP/n-dodecane-contaminated absorbents were excavated from SH-10 and SH-11.
- Contaminated absorbents and soils were removed and packaged for treatment.
- Tanks were size-reduced and packaged.
- The TBP/n-dodecane was solidified into a qualified waste form suitable for Class A low-level waste disposal.
- SH-10 and SH-11 were backfilled.

This stabilization program generated approximately 273 cubic meters (9,675 ft^3) of packaged solid waste contained in 25-cubic meter (888-ft^3) steel containers, including 227 cubic meters (8,016 ft^3) of contaminated soil, 24 cubic meters (880 ft^3) of contaminated absorbents, and 20 cubic meters (706 ft^3) of size-reduced tanks. The TBP/n-dodecane collected in the NDA during remediation amounted to 1,624 liters (429 gal), which was solidified in twenty-six 208-liter (55-gal) drums. The unrecovered TBP/n-dodecane, which may be as great as 13,516 liters (3,571 gal), is thought to have been either adsorbed by organic matter in the surrounding soil, absorbed by the bulk soil, trapped in fractures in the weathered Lavery till, or biodegraded by indigenous microorganisms. In addition, 8,434 liters (2,228 gal) of radiologically contaminated TBP/n-dodecane stored elsewhere on-site were also solidified during the mitigation project. Approximately 567,811 liters (150,000 gal) of water recovered from the special holes during the remediation project were routed through the LLWTF system before discharge in accordance with New York State Pollutant Discharge Elimination System (SPDES) permit requirements.

• WVDP Waste Burial Area Design and Operating History

From late 1982 through 1986 the WVDP disposed approximately 5,663 cubic meters (200,000 ft^3) of low-level radioactive solid waste in twelve trenches and four carbon-steel caissons in the NDA.

The twelve WVDP burial trenches were excavated inside the U-shaped burial area used by NFS. (See unruled area on Drawing 900E-4974 in Appendix A.) The trenches are 4 to 9 meters (14 to 30 ft) deep and are of variable length and width. The caissons are carbon steel cylinders that are 15 meters to 19 meters (50 to 65 ft) deep and 2.1 meters (7 ft) in diameter. The top and bottom are capped and plugged with concrete (Figure 2-1). The caissons are located in the south and east corners of the NFS burial area. (See ruled area on Drawing 900E-4974 in Appendix A.)

WVDP trenches 1 through 7, 10, and 12 were capped with the clay that had been excavated during their construction (Figure 2-2). Trenches 8, 9, and 11 also were capped with clay and included special design features (Figure 2-3). WVDP trenches 8 and 9 were constructed using geotextile in the cap to reinforce the soil in order to minimize the formation of cracks that might result from desiccation or settlement caused by consolidation of the waste mass when the package material fails from corrosion. The clay cap of WVDP trench 11 was constructed with a geogrid reinforcement and bentonite-lined sides. (See Fig. 2-3). This design was intended to retain the continuity of the cap and to prevent crack formation as the waste consolidates. In addition, an intermediate drainage layer and sump were installed in the cap to monitor and allow removal of infiltration. A temporary sump was installed at the bottom of the trench. The bottom sump allows standing water in the unit to be measured and removed and also allows monitoring of groundwater intrusion. Trench 11 also contains settlement plates that allow movement of the waste and cap to be monitored. (See Fig. 2-3.) The elevation of the settlement plates is monitored on an annual basis (Table 2-3). The elevation data from 1987 to 1995 indicate that there has been little or no settlement of the trench 11 cap since its closure in 1986. The material used to backfill between waste packages was a mixture of pea gravel and sorbents.

Table 2-4 provides a summary of each of the disposal units used by the WVDP. As-built drawings of the disposal units are not available. However, one conceptual drawing for trench 11 and a conceptual drawing for the caissons were located. (See Figs. 2-1, 2-2, and 2-3.) Waste receipt records were obtained from log books maintained by West Valley Nuclear Services Co., Inc. (WVNS) for the WVDP.

The low-level waste disposed during WVDP's operations included waste generated during process building decontamination activities (Table 2-4). These wastes included radiologically contaminated process building equipment, protective clothing, contaminated soils, and other similar types of waste that were generated while maintaining the process building in a safe shutdown condition. The waste interred in these trenches was packaged in drums and boxes and was also disposed as unpackaged bulk material. WVDP disposal records indicate the waste was placed between 1 to 2.3 meters (4 to 10 ft) below the surface elevation.

• Interim Waste Storage Facility Design and Operating History

The IWSF is a metal building located north of the WVDP disposal area. (See Drawing 900E-4974 in Appendix A.) The building is approximately 11 meters wide, 11 meters long, and 4.6 meters high (36 ft x 36 ft x 15 ft) and is anchored to a concrete slab foundation. A 15-centimeter (6-in) high concrete curb encloses the inner perimeter. There are four storage cabinets in the building that can be used to store mixed wastes that may be flammable or combustible. These cabinets meet all RCRA and National Fire Protection Association (NFPA) requirements for storage of hazardous and/or flammable materials. A high-expansion foam fire suppression system is located in a 3.05-meter x 4.6-meter (10-ft x 15-ft) metal lean-to anchored to a concrete slab foundation at the northeast corner of the IWSF.

The IWSF, an RCRA interim status storage facility, was originally constructed for the NDA TBP/n-dodecane migration investigation. It is currently used for on-site storage of materials awaiting final waste classification. Nonsolidified, nonstabilized mixed low-level radioactive wastes not meeting the acceptance criteria of other on-site waste storage facilities are also stored here (West Valley Nuclear Services Co., Inc. July 1994).

• NDA Interceptor Trench and Liquid Pretreatment System Design and Operating History

The NDA interceptor trench is located along the northwest and northeast boundaries of the burial area. (See Drawing 900E-4974 in Appendix A.) The interceptor trench was completed in 1991 and was designed to collect groundwater and any TBP/n-dodecane that was migrating through the weathered Lavery till from the NDA.

The trench is approximately 1.2 meters (4 ft) wide, 3.7 to 4.9 meters (12 to 16 ft) deep, and 266.7 meters (875 ft) long with a 1% to 6% slope along the bottom. The trench is lined with 170 grams (6 oz) per square foot of nonwoven polyester geotextile material and is backfilled with pea gravel. An 18-centimeter (7-in) perforated drain pipe at the bottom of the trench directs intercepted groundwater to a sump at manhole #4 for collection. A compacted clay cap was placed over the interceptor trench to protect against rainwater intrusion. There are seven manholes along the trench that are used to maintain and inspect the piping system. (See the Interim Measures Work Plan: Solvent Migration Containment, NRC-Licensed Disposal Area [West Valley Nuclear Services Co., Inc. Spring 1992] for a more detailed discussion of design.)

The standard procedures for operation of the interceptor trench are contained in WVDP's standard operating procedure (SOP) 82-01, NDA Liquid Pretreatment System Operation (West Valley Nuclear Services Co., Inc. February 1992). A sump is located in manhole #4. The sump is equipped with full/low-level sensors and the trench is equipped with a high-level alarm located 8 feet below the top of manhole #4 (approximate elevation 1,366 ft). The interceptor trench was constructed such that water gravity-drains to manhole #4 (the low point in the trench).

Water level readings are taken at the manhole #4 sump, five days per week (Monday through Friday). Before pumping, the liquid in the sump is analyzed for gross alpha and gross beta and probed for the presence of organics. If the probe shows no organics and the analytical results are within operating limits for the LLWTF, the

liquid is pumped directly from the sump to lagoon 2 via the lagoon 2 transfer line. In addition, the trench is sampled for total organic carbon (TOC) and total hardness for long-term trending and is also included in the routine groundwater monitoring program. Operation of the sump in this manner has caused the water levels in the sump to be above the inlet piping in some cases due to heavy groundwater flow conditions, turnaround time for analytical work, and weekday monitoring activities. These cases do occur and their duration are limited as much as possible given the operational requirements for pumping the sump. To date, all water has been transferred to lagoon 2 for treatment. However, should the LPS be required, additional sampling and analysis will be necessary to ensure performance of the LPS for its intended purpose, to remove TBP/n-dodecane and iodine-129.

The interceptor trench is currently pumped approximately twice per week; however, seasonal fluctuations and precipitation do affect the water volumes collected. Capping activities at the interceptor trench were completed in April 1991 and were followed by a sharp decline in water volume pumped from the trench. Before the trench was capped, an average of 26,000 gallons (98,410 L) of water was pumped from the sump from January 1991 through April 1991. An average of 8,400 gallons (31,794 L) of water has been pumped from the sump since the trench was capped in April 1991. Before the trench was capped, water volumes pumped reflected groundwater, surface water, and precipitation contributions during construction activities. After the trench was capped, the volumes pumped since May 1991 reflect only groundwater contributions.

If TBP/n-dodecane is present in the sump, the groundwater would be transferred to the LPS for treatment. Since TBP/n-dodecane has not yet been detected, the LPS has not yet required operation. The LPS will be operated in accordance with SOP 82-01 (West Valley Nuclear Services Co., Inc. February 1992). The LPS contains four 3,785-liter (1,000-gal) tanks (D-01, D-02, D-03, and D-05), a 18,927-liter (5,000-gal) tank (D-03), filters, and granular activated carbon treatment units. Tank D-03 was also used to temporarily store liquid removed from the TBP/n-dodecane disposal tanks during the 1986 tank exhumation project (Blickwedehl et al. 1987).

The original building that sheltered the LPS was a fabric-covered structure. (See Drawing 900E-4974 in Appendix A.) It was originally erected as part of the 1986 tank exhumation project. Due to wear, the fabric structure was disassembled in April 1994 and has been replaced by a Quonset-style building.

• NDA Hardstand Design and Operating History

The NDA hardstand is located outside the southeast corner of the NDA. It is a three-sided, cinderblock-walled facility with a compacted gravel/earth floor. There are no known operating records for the NDA hardstand. It was used from 1965 to 1986 to stage waste with elevated radiation levels that was awaiting burial during the NDA and SDA burial operations. The cinderblock walls were used for shielding. Lead shielding used during burial activities was staged in this location until approximately 1989, but has since been removed. The hardstand was originally graded so that it would drain by gravity into the adjacent SDA lagoon. However, since the lagoon has been filled in, surface water runoff from the hardstand now drains to the Lagoon Road Creek drainage ditch between the NDA and SDA. The hardstand is no longer used for staging waste or storing lead.

• Lagoon 2 Transfer Line Design and Operating History

The lagoon 2 transfer line is a 5-centimeter (2-in) diameter black polyvinyl chloride (PVC) pipeline that runs along the northeast and northwest sides of the NDA and continues northward to lagoon 2. The transfer line converts from PVC to 2-inch diameter galvanized steel east of the equalization basin.

The transfer line was originally used to transfer liquids from the SDA lagoons to lagoon 1 via a pump house located next to the NDA hardstand. (See Drawing 900E-4974 in Appendix A.) These liquids included precipitation runoff and SDA trench leachate. The last transfer of SDA leachate was in 1981; the last transfer of collected precipitation was in 1991.

The section of the line from the northeast corner of the NDA to lagoon 2 is currently used to transfer groundwater from the NDA interceptor trench sump and the LPS. The section of the transfer line between the SDA and the interceptor trench sump is inactive and the two ends are capped.

SOP 82-01 requires that the lagoon 2 transfer line from the sump and/or the LPS to lagoon 2 be pressure/leak-tested within three months before use and to be air-blown dry after use so that there would be no liquid to spill if the line were broken or frozen.

Two breaks in the transfer line are known to have occurred during excavation activities. One occurred between the NDA and SDA during soil grading activities in 1991, and the other occurred at the southeast corner of the equalization basin in 1993 during excavation work for the sewage treatment plant expansion. In both cases the line was inactive and empty and had been air-blown dry (as per SOP 82-01), so there was no liquid to spill from the broken ends. The ends of the lines were spliced together and, following successful pressure-testing, the line was returned to service.

• NDA Trench Soil Container Area Design and Operating History

The NDA trench soil container area is located on the south side of the road that runs along the southeast side of the NDA. (See Fig. 1-1.) This area contains 100 roll-offs that hold soil excavated during the construction of the NDA interceptor trench. Each roll-off is an open steel box measuring 6 meters by 2.4 meters by 1.8 meters (20 ft x 8 ft x 6 ft), with a swing gate at one end. Each box is covered with a waterproofed canvas tarpaulin and the swing gate is sealed with a rubber gasket.

Excavation of the NDA interceptor trench began in 1989, and the soil containers were originally staged between the railroad track and the road located along the west side of the NDA. As more roll-offs were filled with soil they were stored in their current location southeast of the NDA. In 1993 all of the roll-offs were moved to the soil container area southeast of the NDA. A preliminary review of this area was submitted to the New York State Department of Environmental Conservation (NYSDEC) and the U.S. Environmental Protection Agency (EPA). For further information concerning this area, see WVDP Preliminary Review: NDA Trench Soil Container Area, SWMU #31 (West Valley Nuclear Services Co., Inc. June 1994).

2.1.2 Closure and Maintenance

Maintenance activities such as regrading, seeding, and leachate monitoring, where possible, have been ongoing at the NDA. A formal written maintenance and inspection program was established for the NDA in 1991. This inspection protocol has been incorporated into the site's SOPs.

The NDA is inspected on a quarterly basis and maintenance is initiated as necessary. The inspections are documented and maintained in the site files. The typical inspection includes checking the cap of the interceptor trench for rill erosion, evidence of burrowing animals, the need for seeding or regrading work, and the condition of adjacent ditches and streams. Maintenance plans are developed and incorporated into the inspection reports. Actions are followed up on a quarterly basis or more frequently, as necessary.

With the exception of caissons 1 through 4, all of the WVDP disposal units were capped with clay. The caissons are capped with a concrete shielding plug and a plastic shield on top of the concrete shielding to prevent rainwater intrusion. Trenches 8, 9, and 11 were constructed with a special reinforced clay cap. (See Fig. 2-3.) Each of the disposal holes and trenches were covered with soils excavated from on-site.

Trenches 8, 9, and 11 are equipped to measure water (Fig. 2-3). Standpipes WVTR-8-I-1, WVTR-9-I-1, WVTR-11-I-1 and WVTR-11-I-2 in trenches 8, 9, and 11 are not in direct hydraulic communication with the waste, but monitor water levels above the lower engineered portion of the cap (Table 2-5). Trench 11 also has a standpipe (WVTR-11-B-1) that extends to the bottom of the trench that can measure standing water above the bottom of the trench. Water level data since 1991 indicate that trenches 8 and 9 have little to no standing water (Table 2-5). However, since these standpipes are constructed of nonperforated pipe that terminate within the compacted clay cap the water level data from these standpipes (WVTR-8-I-1 and WVTR-9-I-1) is of little value. As a result, continued monitoring of these standpipes is not recommended. The water levels in the trench 11 standpipes (WVTR-11-I-1 and WVTR-11-I-2) have remained fairly constant since June 1992 with no significant increase in water levels within the waste. (See WVTR-11-B-1, Table 2-5.) As such, the standing water has not been pumped from trench 11. The water level data indicate that the lower and upper engineered cap units appear to be performing as designed. An action level of 1,370 feet (418 m) has been established for standpipe WVTR-11-B-1. This action level elevation is 1 foot below the weathered-unweathered till interface. When water levels in trench 11 exceed 1,370 feet, pumping of leachate will be initiated; however, water levels in trench 11 normally measure 1,360 feet (415 m). An unknown volume of water was pumped once from WVTR-11-B-1 after the trench was closed. Water sampled from WVTR-11-B-1 in 1992 indicated no chemical or radioactive contamination (Garland January 9, 1992).

Infiltration modeling predicts a water level increase of 1 foot per year in trench 11. During a three year period from August 1991 through June 1994 water levels increased by 1.7 feet in trench 11, corresponding to an increase of 0.6 feet per year. The modeling results are fairly close to the measured water level increase rate in trench 11. The water level results indicate that the engineered cap unit appears to be working well at trench 11.

Maintenance of the NDA trench soil containers includes inspection and repairs of the container covers and door gaskets, as necessary, as well as checks for accumulated water in the containers. The WVDP Preliminary Review: NDA Trench Soil Container Area report (West Valley Nuclear Services Co., Inc. June 1994) contains additional detail. Maintenance of the trench interceptor project and the LPS (yet to be used) are covered in the SOP manual SOP 82-01. Maintenance activities at the interceptor trench and LPS include calibration of measuring devices, lubrication and inspection of mechanical components such as pumps, motors, and compressors, and routine visual inspections for signs of disrepair. Actions are taken as necessary to correct problems.

2.2 Waste Characterization

2.2.1 Type and Quantity of Waste

Historically, the materials disposed in the NDA were categorized according to the radioactivity of the waste. (Radioactivity information was available in the facility operating logs.) Chemical data, not being required by the operating license, was never generated for the wastes. Consequently, the chemical characterization of the waste streams developed for this report has been based upon historical knowledge and other records of site operations.

No known RCRA-regulated hazardous wastes were disposed in the NDA. Documentation does indicate, however, that RCRA hazardous constituents (6 NYCRR Part 371, Appendix 23) are associated with some of the materials discarded in the unit. Some of these materials, such as lead shielding, may be considered RCRA-regulated wastes if disposed today. These results are discussed further below.

The fuel processing information was obtained from the 1963 and 1973 safety analysis reports (Nuclear Fuel Services, Inc. July 1962; 1973). These reports provide detailed information regarding the materials used at the site and the processes generating the wastes.

The exact quantity of chemical contaminants located in the NDA is unknown, but the physical characteristics of wastes known to have been buried in the NDA in any amount have been compiled. The characteristics of these wastes are provided in Appendix B. In addition, material safety data sheets (MSDS) or chemical specifications for these materials have been gathered and are available in site files.

Operations at the WNYNSC facility consisted of three general phases: twenty-seven different campaigns of actual fuel reprocessing during NFS' tenure; process building decontamination by NFS to upgrade the facility in response to new regulations and to add new processes; and process building decontamination activities by the WVDP for vitrification operations and eventual closure of the facility. Each phase of operations generated its own types of wastes. Because of the unique characteristics of each phase and the types of potential contamination encountered, each phase is discussed separately, allowing a focus on both the areas and the types of wastes found in the NDA facility. Waste with radiation levels of less than 200 mrem/hr was buried in the SDA until 1975. From 1975 through 1986 all site-generated solid radioactive waste was disposed in the NDA, which was closed in 1986.

• Type and Quantity of Waste Generated from NFS Fuel Reprocessing

NFS received approximately 341 rail and truck shipments of fuel (Connors et al. March 1987) from twelve different generators. The fuel was reprocessed in twenty-seven campaigns between 1966 and 1972. Each of the campaigns varied, depending on the types of fuel to be reprocessed and the quality control (QC) required. Generally, however, the chemicals used for the process remained consistent from campaign to campaign. The types of chemicals used by NFS for fuel reprocessing are summarized in Table 2-6.

During fuel reprocessing, liquid waste materials came from the acid fractionator condensate, floor drains in various cells and chemical makeup areas, the analytical laboratory, and from wash solutions from decontamination operations. Miscible liquid wastes generated during the fuel reprocessing campaigns were either treated in the LLWTF or routed to the HLW storage tanks. Immiscible liquids such as the TBP/n-dodecane used in the extraction process were absorbed in vermiculite and disposed in the NDA.

Wastes generated during this phase included fuel hulls, general waste such as radiologically contaminated clothing and equipment, fuel canisters, ruptured fuel encased in concrete, and spent ion-exchange resins and diatomaceous filter media. As a result of all disposal operations, an estimated 417,000 curies is in the NDA. Approximately 397,000 curies or 95% of the total curies buried in the NDA are attributed to the fuel hulls and hardware from NFS fuel reprocessing activities.

• Type and Quantity of Waste Generated from NFS Decontamination Activities

The second phase of operations – from 1972 to 1981 – consisted of the NFS cleanup of the site in preparation for upgrading the process building and post-1975 maintenance activities. Activities that continued during this phase of operations included decontamination of contaminated areas and equipment to allow access to the process building, disposal of unwanted equipment, cleanup of process materials, and environmental monitoring as required by the license. The types of trace contaminants that may be from this phase include laboratory chemicals and the chemicals used in the process that could have been left as a residue on the equipment.

• Type and Quantity of Waste Generated from WVDP Decontamination Activities

In the third phase (1982 to 1986), which occurred during Project operations, waste was generated from aggressive decontamination of the process building so it could be used to house the vitrification process and provide a safe work environment for employees. This third phase of operations again generated a large amount of fuel processing equipment, scrap, and related materials that may exhibit trace levels of decontamination chemicals and chemical residues from past fuel processing operations.

There are also waste streams that have been generated on a consistent basis throughout the life of the facility and that continue to be generated today. These wastes were disposed in the NDA until disposal operations ceased in 1986. Since 1986 they have been stored in aboveground storage facilities. These materials include the ventilation system air filters, LLWTF sludges and resins, fuel receiving and storage

(FRS) pool precipitates and resins, analytical wastes, and general process building waste. A summary is provided in section 2.2.2 below.

• Type and Quantity of Waste Managed in the Lagoon 2 Transfer Line

The portion of the lagoon 2 transfer line that runs from the pump house to the northeast corner of the NDA was used exclusively for the management of liquids from the SDA. These liquids included leachate that was pumped from the SDA trenches and precipitation that fell into the open lagoons and trenches. Transfer records indicate that between 1975 and 1981 about 11,355,000 liters (3,000,000 gal) of leachate were pumped for treatment before discharge off-site (State Disposal Area Report 1989). The line running from the northeast corner of the NDA to lagoon 2 was later used to transfer water generated during the solvent tank remediation project at the NDA. The line continues to be used for transfers of collected groundwater from the interceptor trench to the LLWTF for treatment. Although a surface water run-off pond was identified at the NDA, there is no documentation or knowledge of any transfers of liquids from this pond to the lagoon system.

• Type and Quantity of Waste Generated in the NDA Trench Soil Container Area

The NDA trench soil container area is the location of 100 roll-off bins containing soil excavated during construction of the NDA interceptor trench (1989 to 1991). While none of the roll-offs are completely filled, their 6-meter x 2.48-meter x 1.83-meter (20-ft x 8-ft x 6-ft) dimensions would allow for a maximum of 2,718 cubic meters (96,000 ft^3) of soil to be stored in them. The roll-offs contain slightly radioactively contaminated soil from the construction of the interceptor trench. Three composite samples were collected from the roll-offs to characterize the radionuclide composition of the soil. A total of thirty-one nuclides were analyzed for and only five were found to be present slightly above detectable levels (Table 2-7).

2.2.2 Physical and Chemical Characteristics

• NDA Waste Inventory

An estimated 10,392 cubic meters (367,000 ft^3) of radioactive waste is buried in the NDA. Approximately 4,587 cubic meters (162,000 ft^3) of the total quantity was disposed during NFS operations, and 5,805 cubic meters (205,000 ft^3) were disposed during WVDP operations. In order to characterize the NDA, a summary profile of the waste streams and the percentage by volume that they represent was prepared. This profile is included as Table 2-8. The quantity of each waste stream is an approximation that is based on the two NDA waste database systems and the operation logs.

One of the database systems was created as a way of managing data and to provide an historical record of NFS disposal operations up until 1975. This database was developed from original disposal tickets generated by NFS. The other database system was developed to track waste disposal and develop historical records for WVDP operations. The operation logs for the earlier WVDP trenches and the database systems identified, in some instances, a total quantity that represented several different types of wastes. In those cases, the total quantity was duplicated for each waste

type because the specific quantity was not known for the individual waste stream component. As a result, based on the available data, the total volume for each stream is the maximum quantity expected. The total reflected on the profile summary will therefore be greater than the total amount of waste that was determined to have been buried in the NDA. To the extent possible, quantities were verified through alternate sources, i.e., purchase records and operating logs. However, quantities are considered approximations, as varying levels of interpretation were required in transcribing and classifying the information on the original disposal tickets.

There are twelve waste categories identified in the summary profile. Their potential maximum percentage of disposal by volume is noted below.

a) Contaminated soils - 36%
b) General process building waste - 20%
c) FRS waste - 14%
d) LLWTF (former process building) sludge - 13%
e) Scrap, junk, debris - 6%
f) Fuel canisters - 3%
g) Miscellaneous - 3%
h) Fuel hulls - 2%
i) Lead shielding - 2%
j) TBP/n-dodecane-contaminated material - 1%
k) Analytical waste - <1%
l) Fuel (ruptured, encased in concrete) - <.01%

As can be seen, the most predominant waste streams by volume in the NDA according to the profile are contaminated soils at 36%, general process building waste at 20%, and FRS and LLWTF wastes at 14% and 13%, respectively. The combination of these four waste streams makes up almost 83% of the total wastes disposed in the NDA. The remainder of the wastes consists of decontamination-generated debris, scrap material, and equipment; analytical laboratory wastes; TBP/n-dodecane adsorbed onto vermiculite; fuel hulls; fuel canisters; ruptured fuel rods; and lead shielding. Depending upon their source, some of these wastes were isolated in particular areas of the NDA. For instance, the hulls are documented as being buried exclusively in the eastern quadrant of the disposal area in the deep holes. (See Drawing 900E-4974, the NDA Base Map [Appendix A], which has been prepared as a visual aid in identifying the trends in burial operations.)

a) <u>Contaminated Soils</u>

Radiologically contaminated soils from various locations throughout the site were disposed in the NDA during its operational lifetime. Some sources of the contaminated soils include cleanup of the railroad tracks near the FRS, construction of the maintenance shop and vitrification facility, cleanup of the railroad tracks west of the NDA where the drum cell was originally to be placed, remediation of a tank 8D-1 condensate spill, lagoon sludge, and cleanup of the old hardstand storage area north of the process building. Neither data nor documentation is available to confirm that any chemical contamination was present in the soils. The predominant contaminants are thought to be radiological in nature. Because of the variations in the sources of the contamination, the character of the disposed soils is not expected to be very uniform from burial hole to burial hole.

b) General Process Building Waste

General process building waste is difficult to define because its constituents are likely to change as a result of evolving activities and practices. The general process building waste stream typically consisted of personal protective equipment such as anticontamination suits (both paper and plastic), respirator cartridges, gloves, and boots; discarded tools; scrap wood and metal; containment items such as gloves, bags, and herculite; miscellaneous debris; empty drums; paper goods; electrical items; and batteries, all of which were used in radiological areas or were suspected of being radioactively contaminated. There is no analytical data to document the chemical characterization of this waste stream. Some contaminants associated with these types of wastes include paints from wood and scrap metal; lead and mercury from batteries; and trace amounts of decontamination and process chemicals (described below under "Scrap, Junk, Debris") on personal protective equipment and general process building waste debris such as paper, cardboard, and packaging materials.

c) The FRS, Culligan, and Filter Waste Stream

This waste stream consists of various materials generated in the FRS facility that were disposed in the NDA. The materials included Culligan water filters used to reduce the radioactivity in the pool water, high-efficiency particulate air (HEPA) filters, diatomaceous filter media, ion exchange resins, and precipitates. Typical HEPA filters consist of plywood or metal frames with a fabric filter medium. The diatomaceous filter media, ion exchange resins, and precipitates were all generated from filtering the water in the FRS pool to reduce its radioactive content. The diatomaceous filter media were disposed in 3,785-liter (1,000-gal) tanks. All materials generated after 1986 have been packaged and placed in on-site storage structures. Resin containers exhumed from SH-11 were double drums surrounded by an internal concrete shielding annuli (Blickwedehl et al. 1987) and were not observed to have leaked.

d) LLWTF Sludges and Resins

The LLWTF was brought on-line in 1972. The sludges and resins generated in the process were disposed in the NDA between 1972 and 1986 by both NFS and the WVDP. The three main process steps in the low-level waste treatment are feed adjustment, flocculation-sedimentation, and ion exchange. Radioactive contamination is absorbed on an inorganic carrier, precipitated, and leaves the process building as sludge. During NFS operations the sludge was packaged and disposed in the NDA without further handling. During WVDP operations the sludge was solidified with cement before disposal.

e) Scrap, Junk, Debris

Two different decontamination campaigns at West Valley between 1972 and 1986 generated the materials in this waste stream. The waste was predominantly materials such as metal, wood, and paper that could have been contaminated with chemicals used during decontamination. Contaminants such as lead, chromium, and nickel may be associated with the metals.

The first decontamination campaign was conducted by NFS as part of their expansion effort and was directed at areas that were to be revamped and expanded, including the chemical process cell (CPC) and the three extraction cells. The second campaign was conducted to prepare the facility for HLW processing and ancillary support operations for the WVDP.

Decontamination procedures were prepared for each of the following: the partition cycle and cell vessels; the uranium cycle; the plutonium cycle; solvent recovery systems; acid recovery system and acid storage tanks; and the dissolver off-gas system. Some process vessels were removed and others repiped to accomplish specific system decontamination objectives (Riethmiller June 12, 1981).

During decontamination activities conducted by NFS, vessels were filled to overflowing if possible, solutions were heated to specified temperatures, agitated by air and/or steam sparging, recirculated, in some cases "burped" and pulsed, and held for designated times. The overflow from these vessels accumulated on the floor of the cells and was flushed to the cell sumps where it was then jetted to the liquid waste systems. This was only partially effective; considerable contamination in the residues on floors of these cells was later encountered during decontamination activities performed for the WVDP. Decontamination solutions used during the NFS efforts contained the following:

- sodium hydroxide
- potassium permanganate
- nitric acid
- ammonium fluoride
- nitric fluoride
- aluminum nitrate
- sodium tartrate
- potassium dichromate
- oxalic acid
- citric acid
- tartaric acid

Prepared commercial decontamination products include:

- Chem-clean
- Radiac/NTA
- Zipstrip®
- Organisol

Purchasing records from 1964 through 1986 indicate that other TURCO products including, Decon Solvent, Decon RR-44, Turco-4323, -4521, -4497, -4502, Fabrifilm, Fabrifilm remover, Descaler, 4360 Descaler, 4368 Descaler, and 4518 Descaler may have been used. Six of these products contained RCRA hazardous constituents: Fabrifilm (toluene, xylene, and butyl benzyl phthalate); Decon Solvent (trichloroethylene, methylene chloride, and diethylhexyl phthalate); Turco Decon 4502 (chromium); Turco Fabrifilm Remover (chromium); Turco-4497 (methyl isobutyl ketone, 2-butanone, dibutyl phthalate, and vinyl chloride); and Zipstrip® (methylene chloride). A total of 2,010 gallons and 17 tons of the six materials were purchased containing less than 888 gallons and 277 pounds of the identified RCRA hazardous constituents. However, these estimated volumes calculated from purchase records do not imply that these volumes were actually disposed of in the NDA as no such records exist supporting disposal of this material. The Turco organic decontamination products were used principally for surface decontamination, typically on wipes where small quantities of product were used.

NFS did not complete decontamination of the reprocessing plant. The WVDP decontaminated many areas of the facility to support Project activities. These decontamination activities generally included area characterization; general clean-up (i.e., removal of debris and loose contamination); spraying down the cell interior with water and various decontamination solutions that included detergents, alkaline solutions, and acidic solutions; dismantling process pipes and vessels; and removing contaminated concrete or fixing loose contamination in place with paint. This material was packaged and disposed in the NDA until disposal operations ceased in 1986.

Dismantling process equipment involved fixing any remaining contamination and removing the pipe, vessel, or hardware, either intact or cut into manageable sizes. Contamination was fixed either by spraying a clear-coat paint onto the equipment (for exterior surfaces) or by filling pipes with polyisocyanide foam. Metal equipment was size-reduced by standard methods using power saws, abrasive cutters, mechanical cutters, and torches (primarily plasma-arc). These wastes were packaged in 208-liter (55-gal) drums or metal boxes and disposed in the NDA.

f) Fuel Canisters

Fuel canisters were generated in the fuel receiving and shipping facility during a cleanup operation. The canisters were used in transport and as underwater storage vessels for the fuel. Canisters are typically constructed of stainless steel because it has a low corrosivity and thus is relatively inert.

g) Miscellaneous

This classification of waste accounts for material disposed during WVDP tenure that does not readily fit into any of the previously identified classifications. Miscellaneous wastes account for a very small fraction (at most 3%) of the total waste disposed in the NDA. This includes a small amount of solidified zinc bromide (four to five 208-liter [55-gal] drums) that was generated as a result of a spill during the restoration of shielded glass windows in the process building.

h) Fuel Hulls

Fuel hulls are the short pieces of casing left after the fuel rods have been chopped and leached in nitric acid to dissolve the fuel. Potential contaminants associated with this material are predominantly radioactive; process chemicals such as nitric acid also are possible contaminants. The hulls are generally composed of stainless steel, zirconium, and nickel alloys.

i) Lead

Lead was disposed in the NDA in the form of lead shielding (lead plates, bricks, wool, and/or shot) from storage and transport containers. Lead was also used as a shielding element in containers and may not be fully accounted for in disposal records.

j) TBP/n-dodecane-contaminated Material

This category includes the absorbed TBP/n-dodecane used in fuel reprocessing activities and miscellaneous solvents used in the process building for various purposes such as decontamination. The TBP/n-dodecane-related waste was disposed in the NDA during fuel reprocessing activities from 1966 to 1972 (Table 2-9).

TBP/n-dodecane:

Samples of the TBP/n-dodecane layer and aqueous phase of the liquid in the disposal holes were collected between 1984 and 1989 (EAL Corporation October 4, 1984; December 16, 1985; January 13, 1986; January 28, 1986) for identification purposes and also to determine the appropriate handling and disposal technology for the material pumped from the holes. While the results of the analyses do not reflect the TBP/n-dodecane at the time of its disposal, the results do indicate some of the water-soluble and TBP/n-dodecane-soluble contaminants that may be present. According to these results, detectable metals did not exceed RCRA maximum contaminant levels (MCLs) for toxicity as defined in 40 CFR 261. The 1984 (TBP/n-dodecane composite) and 1986 (aqueous phase) samples were also analyzed for priority pollutants, and in both years the results for volatiles (including naphthalene) were below detection limits.

The word "kerosene" was used as a layman's term during public meetings to describe the TBP/n-dodecane, but it is not a true description of the process diluent. Naphthalene, as cited in the Merck Index, is a component of kerosene. Hence, it is thought that naphthalene may have been identified as a result of the kerosene nomenclature and not as a result of supporting data that naphthalene is a component of n-dodecane or odorless Amsco™ mineral spirits. The composition of Amsco™ mineral spirits is specified in Appendix B. The technical specifications for both diluents were very precise and were prepared specifically for NFS' purposes. Additionally, the actual extraction process needed very pure constituents to function properly. Based upon this reasoning, it is unlikely that the diluents were of a general or common grade and therefore more susceptible to contaminants. In summary, the evidence collected to date, including the technical specifications and analytical data, does not demonstrate that naphthalene is a constituent of the solvents disposed in the NDA

k) Analytical Waste Stream

This category consists of wastes generated in the two laboratories that have operated on-site since 1966: the analytical laboratory, which is divided into seven cells, and the environmental monitoring laboratory.

The analytical waste stream consisted of materials such as laboratory reagents; disposable utensils; tarpaper used as shielding on the laboratory floors, benches and hoods; Playtex® gloves and paper laboratory coats; samples; and labpacks generated during decontamination activities (described below). The analytical waste stream amounts to less than 1% by volume of the total wastes disposed in the NDA.

PC2

2 Research efforts:

In December 1982 and early 1983 the laboratories were decontaminated so that they could be used for Project purposes. WVDP has reviewed facility documents and determined that at that time, eighteen 55-gallon drums containing radiologically contaminated solid/solidified materials (i.e., legacy wastes) removed from the inactive NFS laboratories were disposed in the NDA. WVDP has performed an extensive review of facility records to determine whether those drums contained listed hazardous wastes. The following documents were located and reviewed:

- **Work Order WO-0111 and Standard Implementing Procedure 82-24 (SIP).** The work order and SIP were developed to identify the tasks that were to be conducted during the 1982-1983 laboratory decontamination program. The SIP indicates that the objective of the decontamination program was to locate, identify, segregate, and package radiologically contaminated materials contained in open containers found in the laboratories. Previously opened containers were inventoried based upon label information. Due to As Low As Reasonably Achievable (ALARA) concerns, the containers were not opened or field screened or sampled to verify label information.

  The SIP indicates that solid and liquid materials were labeled with a yellow tag identifying the material's compatibility group (e.g., acids, bases, flammables). Since, in part, mixed waste was not regulated under RCRA during the 1982-1983 time period, the SIP did not require the identification of RCRA waste codes. Based upon the compatibility grouping assigned, the solid, radioactively contaminated chemicals were sorted and placed into drums with vermiculite. Relative to liquids, the SIP indicates that they were either to be sent to the interceptor or neutralized and solidified (acids and bases), set aside for later management (flammables), or solidified with cement in drums (organics and miscellaneous materials).

  The work order specifies that unopened containers were to be wiped down and set aside. These materials were not discarded as part of the laboratory decontamination program.

- **Inventory Logs.** Work procedures specified that opened containers found in the NFS laboratories were to be logged into the laboratory decontamination program inventory. Containers were logged into the inventory based only on label information (e.g., "grease", "6 normal NaOH", "nitric acid") and visual estimation of container contents (e.g., "1 lb", "400 g"). Assigned compatibility groups (e.g., acids, caustic, flammables) were then documented on the laboratory inventory forms; not all liquid entries on the inventory had identified compatibility groups. The specific drum number into which each solid radioactively contaminated material was placed was also recorded on the logs. Unlike the radioactively contaminated solid materials, specific drum numbers were not listed on the inventory log for each of the radioactively contaminated liquid materials.

PC2> - **NDA Trench 4 Disposal Record.** Drums placed in Trench 4 of the NDA were identified and logged into the Trench 4 disposal record. The NDA Trench 4 disposal record identifies the drum numbers listed in the NFS laboratory decontamination inventory logs for each of the solid, radiologically contaminated materials. Since there were no drum numbers identified in the inventory logs for the liquid radioactively contaminated materials, there is no way to correlate between these liquids and the drums placed in Trench 4.

- **NFS Laboratory Procedures.** Two volumes of NFS laboratory procedures were located. The procedures involved radiochemical-based analyses. Examples of such procedures include: "Controlled-Potential Coulometric Determination of Plutonium," "Isotope Dilution Analysis," "Flame Photometric Determination of Boron," "Uranium Standard."

Basis for Non-listed Hazardous Waste Determination:

The laboratory material inventories generated during the decontamination program were reviewed to identify materials which could meet the definition of hazardous constituents (6 NYCRR Appendix 23) or be identified as listed wastes constituents (6 NYCRR 371.4). This subset of materials (Table 4-1 in the NDA Report) was then evaluated to determine whether any of the materials could potentially be characterized as listed hazardous wastes.

As described above, the radioactively contaminated containerized waste was not sampled due to ALARA issues, therefore, characterization efforts were limited to "process knowledge". To ascertain whether the laboratory chemicals were RCRA listed hazardous wastes, a review of two volumes of NFS laboratory procedures was conducted. Also, as part of this process, other possible uses for these materials in a radiochemistry laboratory were evaluated. As substantiated below, documentation of the origin of the waste sufficient to support a listed hazardous waste characterization for the inventoried radioactive materials does not exist.

No NFS laboratory procedures were located that designate how laboratory waste was to be containerized or labelled. Materials located in the NFS laboratories were identified in the inventories as being containerized in "original", "unoriginal", or "unknown" containers. Since the inventoried materials were generated prior to the publication of guidance or regulations concerning hazardous material handling and labelling in laboratories (i.e., OSHA's 29 CFR 1910.1450 (Hazardous Chemicals in Laboratories)), the use of empty reagent bottles ("original") or other available containers ("unoriginal") for the collection of wastes, without correct labelling of such containers was still a common practice in laboratory environments. For example, it would not have been uncommon to abbreviate container contents (e.g., methylene-chloride containing scintillation cocktails could be simply labelled "methylene chloride") and to use empty reagent bottles for the accumulation of laboratory wastes without removing original bottle labels. As discussed above, due to ALARA concerns, field screening or sampling of inventoried containers to confirm that the labels actually reflected what was in the containers was not conducted.

PC2> • F Listed Hazardous Wastes

F-listed hazardous wastes are spent solvents which were used exclusively for their solvent properties and which before use, contained a total of 10% or more of F-listed solvents. Methylene chloride (2.98 liters), benzene (3.79 liters), and nitrobenzene (0.95 liters) were identified on the inventory and could potentially fall within the definition of a F-listed waste. Only nitrobenzene was identified in a NFS laboratory procedure (RS 41.0 (Silver Nitrate Standard)). Based on this procedure, nitrobenzene would have been used by NFS to volumetrically standardize silver nitrate standard solutions and as such, would not have been used for its solvent properties. Methylene chloride and benzene were not identified in any NFS procedures.

While organics such as methylene chloride are typically and routinely utilized for their solvent properties in the performance of organic analyses and the cleaning of associated laboratory glassware, the NFS laboratory procedures do not indicate that "typical" organic analyses (e.g., semivolatile or pesticide/PCB analyses) were performed on-site. In radiochemistry analyses, acids, not organic solvents (methylene chloride), would be used for cleaning glassware.

Since the NFS laboratory procedures did not identify methylene chloride and benzene, common radiochemistry procedures/practices were reviewed to determine how these materials could have been used. Scintillation cocktails are commonly used in radiochemistry laboratories to ascertain radiological conditions. Scintillation samples contain an organic chemical and a fluor. There are numerous scintillation sample formulations with numerous organic chemicals including methylene chloride, benzene, and nitrobenzene utilized in the preparation of scintillation cocktails. In addition to using numerous different organics, the percent of the organics used in the preparation of the samples also varies. Because the organics in the cocktails serve, in part, to convert the kinetic energy of the radiation into excitation energy and to transfer that energy to the fluor, they are not used exclusively for their solvent properties. Further, the percentage of these organics, before use, is unknown therefore, the wastes generated from this procedure cannot be characterized as F-listed hazardous waste without further information.

In summary, there is no evidence that methylene chloride, benzene or nitrobenzene were used by NFS exclusively for their solvent properties and that their concentration before use was greater than 10%. In the absence of such evidence, it should be assumed that these chemicals are not F-listed hazardous wastes.

• P or U Listed Hazardous Wastes

P or U listed hazardous wastes are defined, in part, as discarded pure/unmixed, unused commercial chemical products (6 NYCRR 371.4(d)(4)). Based upon documentation, WVDP has determined that all opened inventoried laboratory materials were radiologically contaminated. Because the overall intent of the radiochemistry analysis was to identify and quantify radionuclides, reagents with extraneous radiological contamination could not be used. Since such materials became contaminated and could no longer serve the purpose for which they were purchased, they cannot be considered pure, useable materials and, therefore, would not meet the definition of P or U listed hazardous waste.

PC2> THIS PAGE INTENTIONALLY LEFT BLANK

2> Unopened containers, such as unopened reagent bottles, would suggest pure, unused reagents which would be subject to characterization as P or U listed hazardous wastes. However, unopened bottles/containers were not managed as wastes; rather, they were set aside for future use/management. Furthermore, as discussed above, NFS labeling practices for opened containers were not documented and the origin of each container's contents was not verified (i.e. whether the material in each container corresponded to the label.) As a result, container labels alone could not be relied upon to provide sufficient information to characterize these materials as P or U listed hazardous wastes.

Consequently, insufficient information exists to characterize any waste materials as P or U listed hazardous wastes. In the absence of such information, it must be assumed that the materials were not P or U listed hazardous waste.

Waste Disposal:

Not only is there insufficient evidence to characterize any laboratory decontamination wastes as listed hazardous waste, there is also insufficient evidence to determine what radioactively contaminated solidified liquids were disposed of in the NDA. For example, containers identified on the inventory logs as containing liquid material were not assigned specific drum numbers which could be correlated to Trench 4 disposal records. As such, it is not possible to ascertain what liquids, if any, were actually disposed of in the NDA. Therefore, even if one were to assume that one or more of the laboratory decontamination program's liquids wastes were listed hazardous wastes, one would not be able to determine that those wastes were disposed of in the NDA. Again, in accordance with EPA guidance, if the requisite knowledge is not available or the evidence is insufficient to support a listed hazardous waste determination, it may be assumed that listed hazardous wastes were not disposed of in the NDA.

Overall NDA Waste Summary

In summary, very little analytical data for waste streams was generated during the burial operations at the NDA. Disposal records maintained for the NDA provide no further information regarding the actual quantity of chemicals placed in the unit. Much of the waste was packaged in cardboard and wood boxes, with some in steel drums and tanks. Because of decontamination activities, suspected chemical contaminants consist only of small quantities of fuel reprocessing chemicals, laboratory chemicals, and decontamination solutions. Liquids were not disposed in the unit unless absorbed in vermiculite and, in the case of laboratory decontamination, grouted with cement. With the exception of lead, laboratory wastes, and some solvents used for decontamination, there are no other known RCRA-regulated hazardous constituents disposed in the NDA.

- IWSF Waste Inventory

The wastes/materials stored in the IWSF are segregated into five categories, which are based upon the classification of the material. Waste classification includes both radiological and hazardous determinations or analyses. Wastes that require additional information (e.g., analytical analysis) to complete their classification are placed into storage in this facility. Once classified, the wastes will either be transferred to another facility on-site or remain in the IWSF.

The IWSF inventory continuously changes. For purposes of the Federal and State Facility Compliance Agreement (FSFCA), the inventory of containers was complete as of May 21, 1993. Waste generated after this date will be characterized according to applicable federal and state regulations and site procedures (West Valley Nuclear Services Co., Inc. July 1994 [FSFCA Historical Waste Report]).

Description of Wastes in the IWSF Inventory

Uncharacterized wastes, RCRA-regulated hazardous wastes, and mixed radioactive wastes are managed at the IWSF. As of June 29, 1994, there were 262 containers at the IWSF. Many of these wastes at the IWSF consist of petroleum products, vehicle filters, and associated clean-up materials resulting from spills of these materials that are generated as a result of maintenance of on-site equipment. The Analytical and Process Chemistry (A&PC) laboratory generated mixed wastes as a result of chemical and radiological analyses of process control samples. These wastes include laboratory samples, organic extraction wastes, plutonium scintillation wastes, pyridine/cyanide wastes, plutonium aqueous waste, strontium organic wastes, and other laboratory wastes.

Other types of wastes stored in this facility include wastes generated as a result of the reproduction of photographs and blueprints; paints and paint strippers such as Zipstrip®; lead-acid batteries; zinc bromide solutions; and other wastes generated from general maintenance activities.

- Lagoon 2 Transfer Line

In addition to collected groundwater from the NDA interceptor trench, precipitation and leachate from the SDA trenches collected in three SDA lagoons were pumped to lagoon 1 of the LLWTF through the leachate transfer line. In 1987, fourteen samples were taken from thirteen trenches at the SDA and analyzed for priority pollutants. The results of the sampling indicated that the leachate from certain trenches may meet the definition of RCRA-characteristic hazardous waste for barium, benzene, and 1,2-dichloroethane, should the leachate be removed from the trenches. In addition, toluene and vinyl chloride were detected in several trenches (State Disposal Area Report 1989).

Trench 14 leachate has been sampled and analyzed eight times between November 1984 and February 1992 for a variety of analytes. A report prepared by Pacific Nuclear Inc. (December 22, 1992), which includes a summary of analytical results of trench 14 leachate samples collected in November 1984, June and October 1989, September 1990, and August 1991, identifies organic constituents such as benzene, ethylbenzene, toluene, xylene, methylene chloride, 2-methylphenol, phenol, acetone, and 2-butanone

as being detected in various samples collected over this time. Inorganic analyses indicate that total concentrations of heavy metals are relatively low or nonexistent. Trench 14 leachate is not considered a listed hazardous waste but is considered characteristic for benzene.

- NDA Trench Soil Container Area

The NDA trench soil container area consists of 100 steel roll-offs used to store soil excavated during construction of the NDA interceptor trench. In July 1994, nine soil samples were taken from the roll-offs and analyzed for Target Compound List (TCL) semivolatiles, TCL volatiles, Toxicity Characteristic Leaching Procedure (TCLP) metals, TCL pesticides, and TCL polychlorinated biphenyls (PCBs). Results of these analyses indicate the presence of a hazardous constituent, di-n-butylphthalate at 600 μg/kg, from one of the soil samples. There is no indication that this material had ever been disposed in the NDA. However, di-n-butylphthalate is a common laboratory contaminant and a plasticizer ingredient. A total of nine different pesticides were detected in soil from some of the roll-offs. However, none of the reported concentrations exceeded any corrective action level specified in either proposed 40 CFR 264 Subpart S or NYSDEC's Technical and Administrative Guidance Memorandum (TAGM) 4046 (New York State Department of Environmental Conservation January 24, 1994). There are no disposal records that indicate that these pesticides were disposed in the NDA. Their likely source is pesticides that were applied to the area during its use as farmland before NFS took possession of the site in the early 1960s. Therefore, the SOP 300-7 (West Valley Nuclear Services Co., Inc. December 29, 1993) waste characterization identifies the roll-off soil as radioactive waste only, as determined by process knowledge and chemical analyses, in compliance with New York State regulation 6 NYCRR 371.1(d)(3)(ii)(a).

2.3 Previous Investigations

Information derived from previous investigations, process knowledge, and the ongoing environmental monitoring program were used to develop the RFI sampling program to characterize the NDA. Early investigations at the NDA included the 1983 to 1984 investigation of TBP/n-dodecane migration from several NDA burial holes, the 1985 to 1986 excavation of special holes SH-10 and SH-11, and a 1990 analysis of the aqueous phase from three NDA wells.

<u>December 1983 to February 29, 1984 TBP/N-dodecane Migration Investigation</u>

This investigation was in response to the November 30, 1983 detection of radioactive TBP/n-dodecane in well 82-5A at the NDA (West Valley Nuclear Services Co., Inc. April 1985). Analysis of the TBP/n-dodecane indicated that it consisted of 98% n-dodecane and 2% TBP and butyl phosphate esters.

This investigation concluded that the source of the TBP/n-dodecane was eight 3,785-liter (1,000-gal) tanks in special holes SH-10 and SH-11. The TBP/n-dodecane was displaced from the burial holes by rising water levels caused by precipitation that infiltrated through cracks in the caps of the burial holes. Once the water level and the floating TBP/n-dodecane in the holes rose to the weathered Lavery till, the TBP/n-dodecane was able to migrate laterally through this unit.

A composite sample of TBP/n-dodecane from several burial holes was analyzed in August 1984 for priority pollutant volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), pesticides and PCBs, and metals (Roberts February 5, 1986). The sample was also analyzed for several nonpriority pollutant VOCs and SVOCs. With the exception of the nonpriority pollutant VOC 1-butanol, which was detected at an estimated concentration of 16,000 μg/L, VOCs, SVOCs, and PCBs were not detected in this sample. The extraction procedure toxicity characteristic (EP Tox) metals and pesticides did not exceed any maximum concentration limit (MCL) specified in 40 CFR Part 261.24.

1985 to 1986 Kerosene Mitigation Program

The kerosene mitigation program was designed to remove the eight 3,785-liter (1,000-gal) tanks that were the suspected source of the TBP/n-dodecane migrating from special holes SH-10 and SH-11 (Blickwedehl et al. 1987). During the tank removal, samples of the aqueous phase present in SH-10 and SH-11 were analyzed in December 1985 for priority pollutant VOCs, SVOCs, pesticides and PCBs, and metals (Roberts February 5, 1986). In addition, eight VOCs and twelve SVOCs that were not on the priority pollutant list were also analyzed.

The nonpriority pollutant VOCs acetone (122 μg/L), 2-butanone (180 μg/L), and 4-methyl-2-pentanone (27 μg/L) were detected in the aqueous sample from the special holes. The following VOCs were reported as tentatively identified compounds (TICs) without any concentration values: tetrahydrofuran, trimethyl silanol, 3,3-dimethyl-2-butanone, and dichlorobenzene. SVOCs and pesticides and PCBs were not detected in this aqueous sample. The EP Tox metals did not exceed any MCL specified in 40 CFR Part 261.24.

December 1989 Well Sampling

In December 1989 the WVDP sampled three wells (85-I-9, 89-5-N, 89-14-E) within the NDA in response to increases in levels of TBP/n-dodecane within these wells (Fox January 3, 1990). These wells were originally installed in 1985 and 1989 to monitor the potential migration of TBP/n-dodecane from several nearby burial holes within the NDA. Two of the three wells contained a TBP/n-dodecane layer. The sampling was originally intended to collect the aqueous phase from each well, but a small amount of TBP/n-dodecane was also collected and submitted for analysis. These wells were not purged before sampling because of the slow recharge rate for these wells.

The samples were originally intended to be analyzed for Appendix IX VOCs and SVOCs, pesticides, metals, dioxin, SPDES parameters, and a radioisotopic scan. However, only one well was sampled for all analytical parameters. The other two wells went dry before sampling was completed and were not analyzed for metals.

A total of four VOCs, 1-butene, 4-methyl-2-pentanone, 2-hexanone, and tetrahydrofuran, were detected at concentrations ranging from 2 μg/L to 160 μg/L. The 1-butene and tetrahydrofuran were detected as TICs.

The SVOC bis(2-ethylhexyl)phthalate was detected in each sample at a maximum concentration of 320 μg/L. The SVOCs 2-methylnaphthalene, isobutyl alcohol,

n-nitrosomorpholine, 1,2-dibromo-3-chloropropane, 1,4-dioxane, ethyl cyanide, methacrylonitrile, and methyl methacrylate were detected at estimated concentrations ranging from 1 μg/L to 180 μg/L. TBP was also detected in one sample at a concentration of 210,000 μg/L.

Pesticides and dioxins were not detected in any of the samples. The concentration of the EP Tox metals did not exceed any MCL listed in CFR Part 261.24.

THIS PAGE INTENTIONALLY LEFT BLANK

3.0 NDA Characterization

3.1 Methodology

Groundwater and soil sampling results as well as information from past investigations were reviewed to evaluate whether there have been releases of RCRA-regulated hazardous waste or hazardous constituents from the NDA. Groundwater and soil sampling for this investigation was designed to obtain information on possible releases from the NDA as a whole rather than from specific areas within the NDA.

As specified in the RFI Work Plan, WVDP-RFI-014 (West Valley Nuclear Services Co, Inc. December 1993), field sampling activities for this RFI concentrated on collecting groundwater, soil, and sediment samples in areas adjacent to the NDA. These media were identified in the RFI Work Plan as having the highest potential for being pathways for releases.

Results from groundwater monitoring and soil sampling were evaluated against proposed 40 CFR Subpart S action levels. In instances where proposed Subpart S action levels for groundwater were not available, alternate criteria such as NYSDEC Class GA standards or Safe Drinking Water Act (SDWA) MCLs were used. Alternate criteria for soil results were typical eastern U.S. background ranges, site background ranges, or NYSDEC's TAGM 4046 (January 24, 1994).

3.1.1 Field Sampling Activities

A soil sampling program was conducted at the NDA in accordance with the protocols and procedures identified in the RFI Work Plan. All samples were packaged and shipped to EcoTek LSI. The samples were analyzed in accordance with the standard and recommended procedures identified in the RFI Work Plan for TCL and Target Analyte List (TAL) analytes.

3.1.1.1 Soil Sampling Activities

<u>Surface Soil</u>

Surface soil was sampled at four locations on the perimeter of SSWMU #9 and at one background location, SS-18. With the exception of the NDA hardstand all surface soil sampling locations were based on the results of the 1990 site-wide overland gamma survey and historical waste management information. The sampling location at the NDA hardstand was chosen from historical waste management information. A radiation survey conducted at the time of sampling indicated above-background radiation levels in the hardstand area. (Parameters are noted on Table 3-1 and locations are on Figure 3-1.) No VOCs or above-background radioactivity was detected by the field monitoring instruments during the soil sampling program.

<u>Subsurface Soil</u>

Subsurface soil sampling and analyses were conducted in accordance with the protocols and procedures identified in the RFI Work Plan. Subsurface soil samples were collected from two borings next to the NDA and one background borehole, BH-39. (See Fig. 3-1.) The locations were based on groundwater migration patterns. Table 3-2

shows the borehole depths and the parameters analyzed. The sample depth intervals, total organic vapor, real-time radiation readings, and the percent recovery within each split-spoon sample were recorded on subsurface boring logs (Appendix C). The entire borehole soil sampling program is summarized in Table B-7 of the RFI Work Plan.

No VOCs or above-background radioactivity was detected by the field monitoring instruments during the drilling program.

Sediment Sampling

Sediment sampling and analyses were conducted in accordance with the protocols and procedures identified in the RFI Work Plan. Sediment samples were collected from three locations near the NDA and one background location, ST-26. Locations are shown on Figure 3-1. These locations were chosen because they are in the flowpath of precipitation runoff from the NDA. However, the sampling locations also receive runoff from the SDA. Table 3-3 identifies the sampling locations and the parameters analyzed. No VOCs or above-background radioactivity was detected by the field monitoring instruments during the stream sediment sampling.

3.1.1.2 Surface Water Sampling Activities

Surface Water Sampling

Surface water samples were not collected during this RFI since sediment sampling was believed to be a better indicator of possible past releases to the surface water pathway.

However, surface water samples are collected as part of the routine site environmental monitoring program. Appendix A in the 1993 annual site environmental monitoring report details the locations and sampling parameters for surface water samples. (See also section 3.2.2.3.)

3.1.1.3 Air Sampling

RFI-specific ambient air sampling was not proposed in the RFI Work Plan and was not conducted at the NDA for this investigation. However, air samples are routinely collected as part of the WVDP environmental monitoring program. See Appendix A of the annual site environmental report for sampling locations and parameters.

3.1.1.4 Groundwater Sampling

Twenty-one groundwater monitoring wells and one trench sump location were originally proposed in the RFI Work Plan as monitoring locations for the NDA. The trench sump and the following fourteen wells were reviewed for this RFI: 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 1008B, 1008C, 8610, and 8611. Eight of the wells were not reviewed for this RFI: Three upgradient weathered Lavery till wells (1005, 1006, 1007) and three upgradient Kent recessional sequence wells (1001, 1002, 1003) were removed from consideration since they were located cross-gradient to the NDA; two wells (1109A, 1109B) were removed from consideration because water table mapping of the weathered Lavery till indicates that a hydraulic gradient exists from the western

margin of the SDA through well 1106A to well 1109A. Groundwater elevations at well 1106A on the east side of Lagoon Road Creek are consistently several feet higher than water levels in well 1109A, indicating a westerly component of flow from a groundwater divide near the western margin of the SDA towards Lagoon Road Creek and well 1109A. The water table in this area is lower than, and is not influenced by the Lagoon Road Creek culvert. Based on this flow pattern, potential sources other than the NDA interceptor trench would be evaluated in the event of contaminant detection in well 1109A. The SDA trenches can be dismissed as a potential source based on a hydraulic gradient from the groundwater divide to the SDA trenches. An additional well, 910, was added to monitor groundwater quality in the unweathered Lavery till.

Since 1991, groundwater in the vicinity of the NDA from the weathered Lavery till, unweathered Lavery till, and the Kent recessional sequence has been routinely sampled for contamination indicator parameters and groundwater quality parameters (Table 3-4). From 1991 through the end of 1992 the groundwater monitoring year was divided into two semiannual periods. Four samples were taken from each well during each semiannual period. Analyses were divided into three categories: contamination indicator parameters (collected eight times a year); groundwater quality parameters (collected two times a year); and EPA interim primary drinking water standards (collected a total of four times). This portion of the monitoring program was complete by the end of 1992. In 1993, the groundwater monitoring program was revised to reflect the findings of the 1991 and 1992 sampling program. This revision was based on a statistical analysis of the indicator parameter results (pH, specific conductivity, nonpurgeable organic carbon (NPOC), total organic halogens (TOX), gross alpha, gross beta, and tritium) using an analysis of variance (ANOVA) in the EPA-developed software GRITS/STAT, version 4.2 (Dames & Moore September 1993). An evaluation of the presence of VOC detections supplemented the statistical analysis of indicator parameters.

Following these analyses, the wells were re-evaluated based on criteria such as process knowledge, natural processes, and historical monitoring results. This evaluation resulted in the development of an expanded parameter listing for selected wells and a listing of contamination indicators for the remaining wells. As described in the RFI Work Plan, samples were analyzed for expanded parameters during two sampling rounds, the fourth quarter of 1993 and the second quarter of 1994.

Between 1991 and the fourth quarter of 1993 the contamination indicator parameters were sampled and analyzed eight times a year. Beginning in the fourth quarter of 1993 the frequency of sampling for the contamination indicator parameters was reduced to four times a year. The groundwater quality parameters have been sampled and analyzed twice a year since 1991.

The routine groundwater sampling program at the WVDP was supplemented on a number of occasions to obtain specific information related to RCRA. Groundwater was analyzed for drinking water quality parameters during four successive quarterly sampling rounds between the fourth quarter of 1991 and the fourth quarter of 1992. In addition, an expanded groundwater characterization program was performed during the fourth quarter of 1993 and the second quarter of 1994 sampling rounds. The objective of the expanded groundwater characterization was to evaluate whether RCRA-regulated hazardous waste or hazardous constituents were present in groundwater at the WVDP.

3.1.2 Quality Assurance/Quality Control Samples

Field and laboratory QC samples were collected as specified in the RFI Work Plan.

3.1.3 Decontamination Procedures

Decontamination procedures followed during field sampling were in accordance with the approved procedures contained in the RFI Work Plan. Sampling methods and equipment were chosen to minimize decontamination requirements and to prevent the possibility of cross contamination, personnel (worker) contamination, and the generation of mixed (chemical and radioactive) waste. Field personnel were required to wear the appropriate protective equipment during all field work and during decontamination procedures as specified in the Health and Safety Plan in Appendix D of the RFI Work Plan.

3.2 Site Investigation Results

3.2.1 Groundwater

The NDA is located in the south plateau of the WVDP approximately 366 meters (1,200 ft) southeast of the process building (Figure 3-2). The host lithology for the NDA burials is the Lavery till, a calcareous clayey or silty till that is 23 meters to 32 meters (75 to 105 ft) thick within the boundaries of the NDA. The upper 2 to 3 meters (6.5 to 10 ft) of the Lavery till is a weathered interval referred to as the weathered Lavery till that is physically distinct from the underlying unweathered Lavery till.

The weathered Lavery till is oxidized to a yellowish-brown color and contains numerous intersecting horizontal and vertical fractures. The vertical fractures have been observed to extend into the till to a maximum depth of 8 meters (26 ft) (Dana et al. 1979). The weathered Lavery till is the uppermost water-bearing zone in the vicinity of the NDA. Groundwater in the weathered Lavery till flows in a north-northeasterly direction under a hydraulic gradient of 0.02 (Bergeron et al. 1987). (See Appendix A for a south plateau weathered Lavery till water table map.) Hydraulic conductivities of 2.0E-08 cm/s to 4.0E-05 cm/s have been calculated from bail tests performed on piezometers screened in the weathered Lavery till (Prudic 1982). The highest conductivities are associated with fractures. The fracture network in the weathered Lavery till largely controls groundwater flow in this unit.

The unweathered Lavery till is the burial medium for the wastes in the NDA; it is an olive gray, calcareous, silty clay to clayey silt. The hydraulic conductivity of this unit ranges from 2.0E-08 cm/s to 6.0E-8 cm/s (Prudic 1982). Groundwater in this unit flows downward towards the underlying Kent recessional sequence at an estimated velocity of 2.0E-07 cm/s (0.06 m/yr) (West Valley Nuclear Services Co., Inc. November 15, 1993).

Underlying the Lavery till is the Kent recessional sequence, which is composed of gravels and sands underlain by interbedded laminated silts and clays of lacustrine origin. The upper gravels and sands are unsaturated, whereas the underlying lacustrine deposits are saturated and are the principal groundwater flow zone of this unit. The hydraulic conductivity ranges from 5.5E-07 cm/s to 1.5E-06 cm/s based on

in-situ field testing (West Valley Nuclear Services Co., Inc. November 15, 1993). Groundwater flows northeastward towards Buttermilk Creek under a hydraulic gradient of 0.023.

Table 3-5 shows the hydraulic properties of these three principal water-bearing units. For additional information concerning the geology and hydrogeology of these units see RFI Volume 1, Introduction and General Site Overview.

3.2.1.1 Weathered Lavery Till

Groundwater quality in the weathered Lavery till in the vicinity of the NDA is monitored at the NDA interceptor trench sump sampling location WNNDATR and groundwater monitoring wells 905, 906, 907, 908, 909, and 1008C (Figure 3-3). These wells were installed between 1989 and 1992 and are constructed of 2-inch diameter stainless steel. The well screens are 5 to 15 feet long and have a 0.01-inch slot size. At these sampling locations the well screens cross the transition between the weathered and unweathered Lavery till. The boring logs and construction diagrams for these wells are included in Appendix D. Although well 905 is screened within a sand and gravel unit, this unit is hydraulically connected to the weathered Lavery till. Thus, well 905 is considered a weathered Lavery till well for the groundwater characterization.

Well 908 is located at the southwest corner of the NDA where it monitors groundwater upgradient of the disposal area. (See Fig. 3-3.) WNNDATR and wells 905, 906, 907, and 909 monitor groundwater downgradient of the disposal area. (Refer to Fig. 3-3.) The sump at WNNDATR collects weathered Lavery till groundwater that has passed through the NDA and has been intercepted by the NDA interceptor trench. Wells 906, 907, and 909 monitor the weathered Lavery till downgradient of the NDA interceptor trench. Well 1008C is the background well for the weathered Lavery till and is located about 230 meters (750 ft) southwest of the NDA.

Routine Groundwater Sampling and Analysis

Groundwater from wells 905, 906, 907, 908, and background well 1008C has been analyzed for contamination indicator parameters since March 1991. (See Table 3-4.) Water from well 909 was analyzed for contamination indicator parameters beginning in June 1992 and from WNNDATR during the fourth quarter of 1993. This data has been evaluated to assess whether there have been any releases from the NDA. The contamination indicator parameter data from these wells is provided in Appendix E.

The groundwater quality parameter and contamination indicator parameter data from March 1991 through May 1994 for pH, specific conductivity, NPOC, TOX, and gross alpha do not suggest that a release has occurred from the NDA. However, gross beta, tritium, and VOCs in well 909 were above background concentrations for these parameters.

Gross beta concentrations in groundwater from well 909 may indicate that beta-emitting radionuclides may have migrated from the NDA before the interceptor trench was constructed. As discussed in section 2.1.1, water levels in the interceptor trench sump have occasionally exceeded the trench invert in the past. However, gross beta concentrations in water from well 909 are approximately twice as high as

concentrations measured in the trench. This suggests that the trench is not the sole source of gross beta activity in well 909. The gross beta in well 909 is likely to be residual from past operations around the NDA that are being detected now.

The fission product Sr-90 and its daughter product Y-90 are the principal contributors to gross beta activity in groundwater at the WVDP. The concentration of Sr-90 in water from well 909 was 72 pCi/L and 78 pCi/L during the fourth-quarter 1993 and second-quarter 1994 samplings. Water from WNNDATR has the second highest gross beta concentrations, ranging from 48.4 pCi/L to 60 pCi/L. Sr-90 concentrations in WNNDATR were 16 pCi/L and 27 pCi/L during the fourth-quarter 1993 and second-quarter 1994 samplings.

Increases in beta activity in water from well 909 in September 1992, May 1993, and November 1993 were also accompanied by increases in gross alpha and tritium activity. Gross beta concentrations in downgradient wells 905, 906, and 907 are similar to those measured in background well 1008C, which typically has the lowest concentration of gross beta of the wells monitoring the weathered Lavery till, ranging from nondetected to 5.716 pCi/L. Sr-90 concentrations in these wells were all <1.0 pCi/L, suggesting that they were not affected by operations in the NDA.

The highest concentration of tritium in water from the weathered Lavery till, ranging from 14,300 pCi/L to 40,030 pCi/L, was measured in water from WNNDATR. The concentration of tritium in groundwater from well 909, which ranges from 229 pCi/L to 2,220 pCi/L, may indicate either current movement of tritium or residual radioactivity from past operations around the NDA.

The lowest tritium concentration in groundwater from the weathered Lavery till was measured in water from background well 1008C and upgradient well 908. Tritium concentrations in these wells are generally <100 pCi/L but have ranged from 5.4 pCi/L up to 225 pCi/L. Downgradient wells 905, 906, and 907 have slightly higher concentrations, ranging from 13.49 pCi/L to 318 pCi/L.

Between 1991 and 1993, acetone was detected during at least one sampling event for most of the NDA monitoring wells at levels ranging from an estimated 8 μg/L to 26 μg/L. Methyl ethyl ketone (2-Butanone) was also detected during one sampling event at an estimated concentration of 4 μg/L at well 909. The NYSDEC RCRA Quality Assurance Project Plan (QAPjP) states that concentrations of common laboratory contaminants, such as acetone, in analyte-free water are acceptable at three times the method detection limit. Therefore, although acetone was not detected in associated sample blanks, acetone is pervasive in the laboratory and its presence at certain levels is considered acceptable pursuant to the QAPjP. Acetone was not detected during either of the expanded rounds at well 0909. Based on these random detections and NYSDEC guidance, acetone is not considered present in the groundwater. In all cases the detection of acetone and methyl ethyl ketone have been below in the proposed Subpart S action levels of 4 mg/L and 2 mg/L.

The NYSDEC RCRA QAPjP also identifies methylene chloride, toluene, 2-butanone, and phthalates as common laboratory contaminants and states that levels up to three times the method detection limit are considered acceptable in analyte-free water. Based on NYSDEC's guidance several detections of these compounds, although not found in the associated blanks, have been attributed to laboratory contamination. This was further

supported in instances where these compounds were not consistently detected at a specific well. Since these compounds have not been detected in trench water, releases from the trench do not appear to be the source of the acetone and methyl ethyl ketone in well 909.

Expanded Groundwater Characterization Program: Fourth-Quarter 1993 and Second-Quarter 1994

Based on the statistical evaluation of contamination indicator parameters, sampling location WNNDATR and wells 905, 907, 908, 909, and 1008C were selected for expanded characterization (Dames & Moore September 1993).

Groundwater from WNNDATR and wells 905, 907, 908, 909, and 1008C was analyzed for TCL VOCs, SVOCs, pesticides and PCBs, and TAL metals during the expanded groundwater characterization that was conducted during the fourth quarter of 1993 and the second quarter of 1994. The data on these wells from the expanded groundwater program is provided in Appendix F.

- Volatile Organic Compounds

VOCs were positively detected in well 909 and WNNDATR during the fourth-quarter 1993 sampling (Table 3-6). The VOC chloroiodomethane was identified as a TIC during the SVOC analysis at an estimated concentration of 5.9 μg/L in water from well 909 during the fourth-quarter 1993 sampling. It is not entirely certain that this compound is present since TICs are, in general, qualitatively and quantitatively suspect. The RCRA-hazardous constituent 1,4-dioxane was detected at an estimated concentration of 2 μg/L in water from WNNDATR during the fourth-quarter 1993 sampling (Table 3-6). VOCs were not detected during the second-quarter 1994 sampling in any weathered Lavery till monitoring location at the NDA. (See Table 3-6.) The VOC data from the expanded groundwater characterization does not suggest that VOCs are being released from the NDA. VOCs were detected only during the fourth quarter of 1993 at estimated concentrations below practical quantitation limits or as a TIC during the SVOC analysis.

- Semivolatile Organic Compounds

SVOCs were not detected at any location monitoring the weathered Lavery till at the NDA during the fourth-quarter of 1993. (See Table 3-6.) The SVOC bis(2-ethylhexyl)phthalate was detected at an estimated concentration of 16 μg/L in water from WNNDATR during the second-quarter 1994 sampling. This compound is a common laboratory contaminant that is ubiquitous in analytical laboratories and in the environment. The positive detection is unlikely to be a real field artifact. The SVOC data from the expanded groundwater characterization does not suggest that these compounds are being released from the NDA.

- Pesticides and PCBs

Pesticides and PCBs were not detected at any location during the fourth-quarter 1993 or the second-quarter 1994 sampling.

· Target Analyte List Metals

Groundwater from WNNDATR and wells 1008C, 908, 907, 909, and 905 was analyzed for TAL metals during the fourth-quarter 1993 and second-quarter 1994 expanded groundwater characterization. The RCRA hazardous constituents arsenic, barium, cadmium, chromium, lead, nickel, and selenium were detected in groundwater from some of these locations (Tables 3-7 and 3-8). The largest number of TAL metals was detected in water from well 909.

With the exception of arsenic (50 μg/L) in well 907 during the fourth quarter of 1993, none of these constituents exceeded a SDWA MCL or a New York State Class GA groundwater standard. Arsenic and barium were commonly found in nearly every location monitoring the weathered Lavery till at the NDA, including background well 1008C. The remaining RCRA-regulated hazardous constituents were usually detected at concentrations near the practical quantitation limit at isolated monitoring locations and were only positively detected in one of the two expanded groundwater sampling rounds.

Groundwater data for the RCRA-hazardous constituents arsenic, barium, cadmium, chromium, mercury, lead, silver, and selenium from the weathered Lavery till at the NDA has been statistically evaluated. Since a sufficiently large population was required to perform a statistical evaluation, the data from these locations was collected during routine and expanded groundwater monitoring from 1991 to the present. Well 906 was not sampled during the expanded groundwater characterization but was sampled for RCRA drinking water metals between 1992 and 1993. Since antimony, beryllium, and nickel were only analyzed during the two expanded rounds, they were not part of the statistical analysis. Figures 3-4 through 3-11 are 99% confidence intervals, shown as vertical bars around a mean point (tick mark on bar). These confidence intervals were constructed using GRITS/STAT software (U.S. Environmental Protection Agency November 1992).

The Nationwide Groundwater Information Tracking System/STATistical Analysis System (GRITS/STAT) is a comprehensive groundwater database system, designed by the EPA, to store, analyze, and report data generated during groundwater monitoring programs at RCRA, Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and other regulated facilities and sites.

The three types of statistical intervals most often used in the evaluation of groundwater monitoring results are: Confidence intervals, tolerance intervals and prediction intervals. Each interval type has distinct uses and interpretations. The interval type encountered most often is the confidence interval, which gives information about the average concentration at a particular well or group of wells, but provides little or no information on the highest or most extreme concentrations likely to be encountered over time.

The use of GRITS/STAT software in constructing confidence intervals employs a one-sided, 99% confidence limit. Application in the RFIs has consisted of taking the numerical output from GRITS/STAT and creating a graphic display of the two-tailed intervals for both background and downgradient wells chosen to evaluate particular SSWMUs. In doing so, the upper confidence limit for background has been treated as

the background concentration. Significant evidence of exceedance has been defined as a lower limit from a downgradient well that exceeds the upper limit for background.

GRITS/STAT has been employed for a number of reasons, including its ability to handle non-detects properly and to check distributional assumptions. It offers flexibility in terms of different approaches to evaluating data, and its use reduces the likelihood of errors associated with multiple computations by hand (U.S. Environmental Protection Agency July 1992).

Wells with confidence intervals having lower limits exceeding upper limits of confidence intervals from background wells statistically indicate groundwater concentrations are not within background intervals; wells that show confidence intervals overlapping background confidence intervals can be considered to have metals concentrations similar to background wells (U.S. Environmental Protection Agency November 1992; Davis 1986).

It is important to note that 1) all results represent analyses of unfiltered samples and represent total metals; 2) the data units are micrograms per liter ($\mu g/L$); 3) the number of results from the given locations vary from four to six depending on whether or not a location was included as part of the "expanded" characterization of 1993 to 1994; and 4) the results were obtained from different analytical laboratories under different data validation objectives over time.

A review of this statistical comparison indicates that, with respect to these metals, groundwater downgradient of the NDA does not appear to have been affected by the unit. The concentration of selenium in groundwater from well 906 was the only metal that exceeded background concentrations in well 1008C. However, if the confidence interval of 906 is compared to upgradient well 908, the selenium concentrations observed in 906 are within concentration ranges in upgradient well 908. The slightly higher concentrations observed in groundwater in downgradient wells may indicate a natural increase reflecting the effects of the longer groundwater flow path between the background and downgradient wells.

3.2.1.2 Unweathered Lavery Till

Groundwater in the unweathered Lavery till flows downward towards the Kent recessional sequence. Since there are no wells inside the confines of the NDA that monitor groundwater quality from the unweathered Lavery till, there are no data available to evaluate whether there have been releases of RCRA-hazardous waste or hazardous constituents to this unit from the NDA.

Wells 904 and 910, which are screened in the unweathered Lavery till, are nearest to the NDA, approximately 30 meters (100 ft) north of the NDA interceptor trench (Figure 3-12). Groundwater data from these wells was reviewed to evaluate whether historical operations at the NDA had affected groundwater quality in the unweathered Lavery till at these locations. Since the well screen of well 1008C crosses the weathered-unweathered Lavery till, transition data from well 1008C was considered representative of background conditions in the unweathered Lavery till.

These wells were installed between 1989 and 1992. Well 904 and 1008C are constructed of 2-inch diameter stainless steel. Well 910 is constructed of 2-inch diameter

schedule-40 PVC. The wells screens are 5 to 10 feet long and have a 0.01-inch slot size. The boring logs and construction diagrams for these wells are included in Appendix D.

Routine Groundwater Sampling and Analysis

Groundwater from wells 904 and 1008C has been analyzed for contamination indicator parameters since March 1991. Water from well 910 was analyzed for contamination indicator parameters beginning in November 1992. These results were reviewed along with the expanded results to assess whether there have been any releases of RCRA-hazardous waste or hazardous constituents from the NDA to the unweathered Lavery till. The contamination indicator parameter and groundwater quality parameter data do not suggest that a release has occurred from the NDA.

However, gross alpha and gross beta concentrations measured in groundwater from well 910 exceeded background concentrations in well 1008C.

The increased gross alpha and gross beta activity in well 910 is not believed to be caused by releases from the NDA and may be caused by natural variability in groundwater from the unweathered Lavery till. The gross beta activity, which ranges from 5 pCi/L to 29 pCi/L, has a significant degree of uncertainty associated with it, and Sr-90 concentrations from this well during the fourth-quarter 1993 and second-quarter 1994 were less than 1 pCi/L. Typically, wherever gross beta activity in groundwater at the WVDP exceeds background concentrations, Sr-90 is the principal contributor of the gross beta activity.

Expanded Groundwater Characterization Program: Fourth-Quarter 1993 and Second-Quarter 1994

Groundwater from wells 904, 910, and 1008C was analyzed for TCL VOCs, SVOCs, pesticides and PCBs, and TAL metals during the expanded groundwater characterization that was conducted during the fourth quarter of 1993 and the second quarter of 1994. (See Appendix F.)

VOCs, SVOCs, and pesticides and PCBs were not detected in any of these wells during the fourth-quarter 1993 or second-quarter 1994 sampling.

Groundwater from wells 1008C, 904, and 910 was analyzed for TAL metals during the fourth-quarter 1993 and second-quarter 1994 expanded groundwater characterization. The RCRA hazardous constituents arsenic, barium, cadmium, and lead were detected in groundwater from some of these wells (Tables 3-9 and 3-10).

None of these constituents exceeded a SDWA MCL or a New York State Class GA groundwater standard. These constituents were not always detected during both the fourth-quarter 1993 and second-quarter 1994 sampling events. Arsenic was detected at 9 μg/L in well 904 during the fourth-quarter 1993 sampling, but it was not detected during the second-quarter 1994 sampling. Lead was detected at low concentrations in wells 1008C and 904 during the fourth-quarter 1993 sampling but was not detected in these wells during the second-quarter 1994 sampling. Cadmium was detected at concentrations of 1.9 μg/L in well 910 during the fourth-quarter 1993 sampling and at 1.7 μg/L during the second-quarter 1994 sampling.

Groundwater data for the RCRA-hazardous constituents arsenic, barium, cadmium, chromium, mercury, lead, silver, and selenium from the unweathered Lavery till wells 1008C, 904, and 910 has been statistically evaluated. The data that was evaluated was collected during the routine and expanded groundwater monitoring from 1991 to the present to ensure a sufficiently large population to perform statistics. Figures 3-13 through 3-20, constructed using GRITS/STAT software (U.S. Environmental Protection Agency November 1992), are 99% confidence intervals, which are shown as vertical bars around a mean point (tick mark on bar).

All data represent total metals and are in micrograms per liter (μg/L). The number of results from each location vary from four to six, depending on whether or not a location was included as part of the expanded characterization of 1993 to 1994. These results were obtained from different analytical laboratories under different data validation objectives over time.

A review of this statistical comparison indicates that, with respect to these metals, groundwater downgradient of the NDA does not appear to have been affected by the unit.

The TAL metals results do not suggest that there have been releases from the NDA to the unweathered Lavery till. The RCRA-hazardous constituents arsenic, barium, and lead were detected in the background well 1008C and in one of the downgradient wells.

3.2.1.3 Kent Recessional Unit

Wells 901, 902, 903, 8610, and 8611 monitor groundwater quality in the Kent recessional sequence in the vicinity of the NDA (Figure 3-21). Wells 901 and 902 are upgradient wells located along the west side of the NDA. Wells 903, 8610, and 8611 are downgradient wells located north and east of the NDA. Well 1008B is the background well and is located about 230 meters (750 ft) southwest of the NDA. Wells 8610 and 8611, which were installed in 1986, are 2-inch diameter wells with carbon steel risers and stainless steel screens. Wells 901, 902, and 903 are 2-inch diameter stainless steel wells that were installed in 1990. The boring logs and construction diagrams for these wells are in Appendix D.

Groundwater from wells 901, 902, 903, 8610, 8611, and 1008B has been sampled and analyzed for contamination indicator parameters since 1991. Based on the statistical evaluation of the contamination indicator parameter data from the 1991 to 1992 sampling program (Dames & Moore September 1993), none of the Kent recessional sequence monitoring wells were selected for the expanded groundwater characterization program that occurred during the fourth quarter of 1993 and second quarter of 1994. the contamination indicator parameter data from these wells is provided in Appendix E.

Routine Groundwater Sampling and Analysis

The contamination indicator parameter and groundwater quality parameter data from March 1991 through May 1994 do not suggest that a release of RCRA-hazardous waste or hazardous constituents has occurred from the NDA.

Groundwater data for the RCRA-hazardous constituents arsenic, barium, cadmium, chromium, mercury, lead, silver, and selenium from the Kent recessional sequence at the NDA has been statistically evaluated. The data evaluated was collected during four quarterly sampling rounds between 1992 and 1993. Figures 3-22 through 3-29 are 99% confidence intervals, shown as vertical bars around a mean point (tick mark on bar). These figures were constructed using GRITS/STAT software (U.S. Environmental Protection Agency November 1992).

Wells with confidence intervals having lower limits exceeding upper limits of background confidence intervals statistically indicate groundwater concentrations are not within background intervals; wells that show confidence intervals overlapping background confidence intervals can be considered to have metals concentrations similar to background wells (U.S. Environmental Protection Agency 1989; November 1992; Davis 1986).

It is important to note that 1) the results represent total metals; 2) that four results from each well were evaluated; and 3) the data were analyzed at an analytical laboratory with data validation objectives different than those used during the 1993 to 1994 expanded groundwater characterization.

The concentrations of barium, cadmium, mercury, selenium, and silver in groundwater from the Kent recessional sequence are similar to the background well 1008B. The confidence intervals for arsenic, chromium, and lead from several wells were slightly higher than the background well 1008B. However, if comparisons are made to upgradient well 901 in these instances, the downgradient concentrations are within the confidence interval of well 901. Furthermore, the slightly higher concentrations observed in groundwater in the downgradient wells may reflect natural increases resulting from the length of the groundwater flowpath between 1008B and downgradient wells.

3.2.2 Soil and Stream Sediment

The results of the site-wide soil program conducted during 1993 are summarized below.

3.2.2.1 Shallow Soil Sampling Program

The shallow soil sampling program was designed to evaluate the effect of historical site operations on shallow soils at the WVDP. Twenty-five shallow soil sampling locations were selected from a review of the 1990 site-wide overland gamma survey and site operational history. Composite soil samples were collected at each shallow soil sampling location. Each composite sample consisted of five individual soil samples collected from the upper six inches of soil. One of the samples was collected from the designated sampling location and the other four were collected one meter to the north, east, south, and west of the designated sampling location.

Shallow soil sampling locations SS-14, SS-15, SS-20, and SS-21 (Fig. 3-1) were chosen to evaluate shallow soil conditions in the vicinity of the NDA and were analyzed for TCL SVOCs, TAL metals, and TCL pesticides and PCBs. SS-20 and SS-21 were also analyzed for TCL VOCs. SS-14 is located near the northwest corner of the NDA, SS-15 is located near the northeast corner of the NDA, and SS-20 and SS-21 are located in the NDA hardstand near the southeast corner of the NDA. SS-20 and SS-21 were

resampled for the semivolatile analysis because holding times were exceeded in the laboratory. These samples are designated SS-20R and SS-21R.

The analytical results for the shallow soil samples are presented in Appendix G. A summary is given below.

- Volatile Organic Compounds

Benzene, carbon disulfide, and trichloroethane were detected at estimated concentrations of 4.3 μg/kg, 4.8 μg/kg, and 2.4 μg/kg in soil from SS-20 (Table 3-11). Carbon disulfide was also detected at a concentration of 6.7 μg/kg in soil from SS-21. The concentrations of these compounds in soil from these locations are below their respective action levels specified in proposed 40 CFR 264 Subpart S and NYSDEC's TAGM 4046. (New York State Department of Environmental Conservation January 24, 1994.)

Methylene chloride and chloroform were also detected in soils from SS-20 and SS-21, but these compounds are not considered representative of field conditions at these locations because they were also detected in the associated method and equipment blanks.

The compound 1,1,2,2-tetrachloroethane was identified in soil from SS-14 as a TIC at estimated concentrations of 200 μg/kg. The presence of this compound in this sample is not certain since the qualitative and quantitative values reported for TICs are suspect. Toluene was also reported as a TIC during the SVOC analysis at concentrations ranging from 300 μg/kg to 1,000 μg/kg in soil from SS-14, SS-15, and SS-21R. However, the toluene results were flagged as unreliable ("R") since this compound was detected in the associated method blanks at concentrations of 500 μg/kg to 900 μg/kg (Table 3-11).

- Semivolatile Organic Compounds

Di-n-butylphthalate and 1-iodo-octatetracontane were the only SVOCs detected in soil from these locations.

During semivolatile analysis, 1-iodo-octatetracontane was detected as a TIC at an estimated concentration of 400 μg/kg in soil from SS-20R (Table 3-11). It is not entirely certain that this compound is present since TICs are in general qualitatively and quantitatively suspect. However, this compound is not a RCRA-regulated hazardous constituent.

Di-n-butylphthalate was detected at 350 μg/kg in soil from SS-21R, but this compound is not considered representative of field conditions at SS-21R since it also was detected in the associated method blank at a concentration of 180 μg/kg.

- Target Compound List Pesticides and PCBs

Soil from sampling location SS-14 was analyzed for TCL pesticides and PCBs. TCL pesticides and PCBs were not detected in soil from SS-14.

- Target Analyte List Metals

Soil from surface soil sampling locations SS-14, SS-15, SS-20, and SS-21 was analyzed for TAL metals (Table 3-12).

The concentrations of most of the TAL metals, including those RCRA-regulated hazardous constituents detected in soil from these surface soil locations, were within common ranges for soil in the eastern United States. (See Table 3-12.) The only exception was zinc, which slightly exceeded the eastern United States background at four of the five locations reviewed but which likely could be attributed to natural variation.

The concentrations of metals in soil from locations SS-14, SS-15, SS-20, and SS-21 were compared to concentrations measured from background location SS-18 to evaluate whether significant differences existed that may indicate a release of RCRA-hazardous waste or hazardous constituents from the NDA had occurred. However, it should be understood that the TAL metals also occur in nature and that their concentrations in soil from the Lavery till will exhibit considerable variability both stratigraphically and spatially. This variability is related to the variable composition of the soils' protolith, weathering processes that chemically and physically modify soil, and groundwater interactions that modify the geochemistry of the Lavery till. Considering the natural variability in metals concentration in the Lavery till and variability in soils analyses (often approaching a relative percent difference [RPD] of 100% or a two-fold difference), a concentration from an NDA surface soil sample will not be considered as exceeding background levels unless it is at least three times greater than the background concentration.

Calcium in SS-14 was the only TAL metal from these locations that exceeded background levels, based on these assumptions. However, calcium is not a RCRA-regulated hazardous constituent. None of the other metals measured in soil from SS-14, SS-15, SS-20, and SS-21 are considered to exceed background concentrations. The metals data from the surface soil locations do not suggest that releases of RCRA-hazardous waste or hazardous constituents have occurred from the NDA to the surface environment. The slight differences in concentration between the background and the surface soil locations may be explained by natural concentration variations in a material such as the Lavery till.

Although the concentrations of beryllium, chromium, iron, nickel, and zinc did exceed the action level concentrations for these metals as specified in NYSDEC's TAGM 4046 (January 24, 1994), beryllium was the only metal to exceed action levels specified in proposed 40 CFR 264 Subpart S. The concentration of these metals in soil from these locations is considered reflective of normal variations within background concentrations of metals in the Lavery till.

- Radiological Parameters

Surface soil samples from SS-14, SS-15, SS-20, SS-21, and SS-18 were analyzed for radiological parameters. Table 3-13 lists those sampling locations where radioisotope concentrations exceeded background concentrations. The radioisotopic results were compared with the chemical parameter results from these sampling locations to evaluate whether there was a correlation between chemical and radiological

contamination. With the exception of organic compounds detected at sampling location SS-20, no direct correlation could be drawn between chemical parameter detections and the radioisotope results from these sampling locations.

3.2.2.2 Deep Soil Drilling Program

Two deep boreholes, BH-41 and BH-42, were drilled in the vicinity of the NDA. (See Fig. 3-1.) Borehole BH-41 was located hydraulically cross-gradient to the NDA, while borehole BH-42 was positioned hydraulically downgradient of the NDA to assess the effect that potential releases from the NDA may have had on soil in the weathered Lavery till and the upper unweathered Lavery till. The boring logs for BH-41 and BH-42 and background borehole location BH-39 are provided in Appendix C.

BH-41 is located at the northwest corner of the NDA; it was augured to a total depth of 19 feet. The weathered to unweathered Lavery till transition occurred at an approximate depth of 7.5 feet at this location. Soil from the 0- to 2-foot, 6- to 8-foot, 10- to 12-foot, and 17- to 19-foot depth intervals was analyzed for TCL VOCs, SVOCs, and TAL metals. (See Table 3-2.)

BH-42 is located at the northeast corner of the NDA; it was augured to a total depth of 25 feet. The weathered to unweathered Lavery till transition occurred at an approximate depth of 4.5 feet at this location. Soil from the 0- to 2-foot, 3- to 5-foot, 7- to 9-foot, 12- to 14-foot, and 25- to 27-foot depth intervals was analyzed for TCL VOCs, SVOCs, and TAL metals. (See Table 3-2.) The analytical results for the deep soil drilling program are provided in Appendix H.

• Volatile Organic Compounds

Soil sampled from the 10- to 12-foot and 17- to 19-foot depth intervals from BH-41 and the 7- to 9-foot, 12- to 14-foot, and 25- to 27-foot depth intervals from BH-42 was analyzed for VOCs. (See Table 3-2.)

The VOCs acetone, carbon disulfide, methylene chloride, and toluene were detected in soil from these depth intervals (Table 3-14). However, carbon disulfide is the only one of these VOCs that is considered to be present in soil from these boreholes.

Carbon disulfide was positively detected at an estimated concentration of 18 μg/kg from the 10- to 12-foot interval of BH-41 and at an estimated concentration of 1.6 μg/kg from the 7- to 9-foot interval of BH-42 (Table 3-14).

Acetone, methylene chloride, and toluene were detected in soil from these boreholes but are not considered to be present because they were also detected in the associated method blanks.

Carbon disulfide is the only VOC and RCRA-regulated hazardous constituent identified in soil from both BH-41 and BH-42. However, carbon disulfide is a common laboratory contaminant that is still found frequently in laboratories that use National Institute for Occupational Safety and Health (NIOSH) methods of analyses for air samples. The estimated concentrations of carbon disulfide are below the action levels specified in proposed 40 CFR 264 Subpart S (8,000 mg/kg) and NYSDEC's TAGM 4046

(2.7 mg/kg). Carbon disulfide was not detected in groundwater from the weathered or unweathered Lavery till during the fourth-quarter 1993 and second-quarter 1994 expanded groundwater characterization. Available records do not indicate that carbon disulfide was disposed in the NDA.

· Semivolatile Organic Compounds

Soils from the 10- to 12-foot and 17- to 19-foot depth interval of BH-41 and the 7- to 9-foot, 12- to 14-foot, and 25- to 27-foot depth interval of BH-42 were analyzed for SVOCs. (Table 3-2.)

Di-n-butylphthalate, pentadecane, and tetradecane were the only SVOCs detected from BH-41 and BH-42. (See Table 3-14.)

Di-n-butylphthalate was detected in soil from BH-41 but it is not considered representative of field conditions since it was also detected in the associated method blanks. Di-n-butylphthalate identified in soil from BH-42 was detected at estimated concentrations. (See Table 3-14.) However, this compound is a common laboratory contaminant that also was detected in a method blank during the analysis for surface soil sample SS-21R. This compound is probably not present in soil from this borehole since it was detected at low estimated concentrations and it was detected in another method blank.

Pentadecane and tetradecane were identified as TICs at estimated concentrations of 300 μg/kg to 600 μg/kg in soil from BH-41 during the semivolatile analysis. These are fourteen and fifteen carbon-chain ($C_{14}H_{30}$ and $C_{15}H_{32}$) aliphatic hydrocarbons that are longer than n-dodecane, which is a twelve-carbon aliphatic hydrocarbon ($C_{12}H_{26}$). These compounds also were detected in background borehole BH-39. Neither TBP nor n-dodecane were detected in BH-42 (and were not specifically analyzed for in BH-41), nor were they identified as TICs in BH-41 during the semivolatile analyses. The tetradecane and pentadecane in BH-41 are not believed to be associated with the n-dodecane that was disposed in the NDA. BH-41 is hydraulically upgradient of the disposal holes that contain the TBP/n-dodecane mixture. It is not entirely certain that these compounds are present in BH-41 since TICs are in general qualitatively and quantitatively suspect.

Although SVOCs were detected in soil from BH-41 and BH-42, only di-n-butylphthalate is a RCRA-regulated hazardous constituent. However, NYSDEC's TAGM 4046 lists an action level of 8.1 mg/kg for di-n-butylphthalate, which is considerably higher than the levels of this compound detected in soil from BH-42. There are no action levels specified for this compound in proposed 40 CFR 264 Subpart S. None of these SVOCs were detected in groundwater from the weathered and unweathered Lavery till during the fourth-quarter 1993 and second-quarter 1994 expanded groundwater sampling program.

· Target Analyte List Metals

Soil sampled from the 0- to 2-foot, 6- to 8-foot, 10- to 12-foot, and 17- to 19-foot depth intervals from BH-41 and the 0- to 1-foot, 3- to 5-foot, 7- to 9-foot, 12- to 14-foot, and 25- to 27-foot depth intervals of BH-42 was analyzed for TAL metals.

The concentrations of most of the TAL metals, including most of the RCRA hazardous constituents detected in soil from every depth interval, were within common ranges for soil in the eastern United States (Table 3-15). The exceptions were calcium, magnesium, nickel, and zinc. Magnesium and zinc consistently exceeded background concentrations. Calcium and nickel each exceeded background concentrations in soil from two depth intervals.

The concentration of metals in soil from BH-41 and BH-42 was compared to the concentration range measured in background borehole BH-39 and borehole SBB-01 to evaluate whether there were significant differences that may indicate a release of RCRA-hazardous waste or hazardous constituents from the NDA. Borehole SBB-01 was installed east of the SDA in the Lavery till by the New York State Energy Research and Development Agency (NYSERDA). As noted earlier, it should be understood that the TAL metals also occur in nature and that their concentration in soil from the Lavery till will exhibit considerable variability both stratigraphically and spatially. Considering the natural variability in the concentration of metals in the Lavery till, a metal concentration in samples from BH-41 and BH-42 was not considered as exceeding background levels unless it was at least three times greater than the highest measured background concentration.

Based on these assumptions, none of the metals concentrations measured in soil from BH-41 or BH-42 are considered to exceed background concentrations. The metals data from these boreholes do not suggest that releases of RCRA-hazardous waste or hazardous constituents have occurred from the NDA. The slight differences in concentration between the background and NDA boreholes may be explained by natural concentration variations in a material such as the Lavery till.

Although the concentrations of beryllium, chromium, iron, nickel, and zinc did exceed the action level concentrations for these metals specified in NYSDEC's TAGM 4046, beryllium was the only metal to exceed action levels specified in proposed 40 CFR 264 Subpart S. The concentrations of these metals in soil from these boreholes are considered reflective of normal variations within background concentrations of metals in the Lavery till.

- Radiological Parameters

Soil samples from BH-41 and BH-42 were analyzed for radiological parameters. Table 3-16 lists those sampling locations where radioisotope concentrations exceeded background concentrations. There was no obvious correlation observed between chemical and radiological contamination at these locations when the radioisotopic results were compared with the chemical parameter results.

3.2.2.3 Stream Sediment and Surface Water Sampling

Stream Sediment Sampling

Stream sediment sampling conducted during the 1993 site-wide soil characterization program was designed to evaluate whether radiological or chemical contaminants were introduced into surface waters at the WVDP. Stream sediment was sampled from thirty-six locations in streams within and on the boundaries of the WVDP. Three of these locations are considered to be close to the NDA and can be used to assess

whether releases from the NDA have occurred. Silt and mud deposits in the stream channels were sampled rather than coarse-grained sediments since potential radioactive and chemical contaminants are considered more likely to associate with these fine-grained sediments through ion-exchange and sorption processes.

Surface drainage from the NDA collects in either Erdman Brook or Lagoon Road Creek, which are located to the north and to the east of the NDA. (See Fig. 3-1.) Stream sediment was collected from two locations on Erdman Brook (ST-22 and ST-24) and from one location on Lagoon Road Creek (ST-23).

- ST-22 is located in Erdman Brook immediately downstream of the confluence of Erdman Brook and Lagoon Road Creek.
- ST-23 is located in Lagoon Road Creek between the NDA and the SDA.
- ST-24 is located in Erdman Brook approximately 61 meters (200 ft) downstream of the railroad embankment.

The sediment collected from these locations was analyzed for TAL metals and radioisotopes because these were determined to be the parameters that would most likely indicate a release. VOCs and SVOCs would probably not be found in stream sediments due to the physicochemical properties of these compounds and the nature of stream sediments. (See Table 3-3.) The analytical results from these locations were compared to the background location ST-26, which is located in Erdman Brook approximately 300 meters (1,000 ft) upstream of the NDA. The analytical results from the stream sampling program are provided in Appendix I.

The concentration of most of the TAL metals, including those RCRA hazardous constituents detected in stream sediment from these locations, were within common ranges for soil in the eastern United States (Table 3-17). The only exceptions were magnesium, nickel, and zinc. Zinc consistently exceeded background concentrations, whereas magnesium and nickel slightly exceeded background at one or two locations. Zinc concentrations may be attributable to natural variation.

The concentration of metals in stream sediment from locations ST-22, ST-23, and ST-24 were compared to concentrations measured from background location ST-26 to evaluate whether significant differences existed that may indicate a release of RCRA-hazardous waste or hazardous constituents has occurred from the NDA. However, it should be understood that the TAL metals also occur in nature and that their concentration in stream sediment will exhibit considerable spatial variability. Considering the natural variability in metals concentration that may exist in stream sediment, a concentration downstream from the NDA was not considered as exceeding background levels unless it was at least three times greater than the background concentration.

The concentrations of calcium in ST-22, ST-23, and ST-24 and manganese from ST-22 were the only TAL metals that exceeded background levels under this criterion. However, calcium and manganese are not RCRA-hazardous constituents. None of the other metals measured were considered as exceeding background concentrations. The metals data from the stream sediment sampling locations do not suggest that releases of RCRA-hazardous waste or hazardous constituents have occurred from the NDA. The slight differences in concentration between the background and the downstream locations may be explained by natural concentration variations in a heterogeneous material.

Although the concentrations of arsenic, beryllium, chromium, iron, nickel, and zinc did exceed the action level concentrations for these metals as specified in NYSDEC's TAGM 4046, beryllium was the only metal to exceed action levels specified in proposed 40 CFR 264 Subpart S. The concentrations of these metals in stream sediment from these locations is considered reflective of normal variations within background concentrations of metals.

- Radiological Parameters

Stream sediment samples from ST-22, ST-23, ST-24, and ST-26 were analyzed for radiological parameters. Table 3-18 lists those sampling locations where radioisotope concentrations exceeded background concentrations. When the radioisotopic results were compared with the chemical parameter results from these sampling locations there was no obvious correlation observed between chemical and radiological contamination at these locations.

Surface Water Sampling

Surface water downstream of the NDA is monitored using an automated sampler (Figure 3-30) at location WNNDADR as part of the WVDP environmental monitoring program. Weekly samples are composited and analyzed monthly for gross alpha, gross beta, tritium, and gamma-emitting isotopes. Quarterly composites are analyzed for Sr-90 and I-129. Monthly grab samples are analyzed for pH, TOC, and TOX.

Gross alpha concentrations at WNNDADR range from nondetected levels to 9.48 pCi/L and are slightly higher than background surface waters, which have concentrations ranging from nondetected levels to 2.00 pCi/L.

Gross beta concentrations at WNNDADR have been consistent through time, averaging about 300 pCi/L (Figure 3-31). Gross beta concentrations at WNNDADR are twenty to two hundred times higher than gross beta concentrations measured in background surface waters. Sr-90 contributes 40% to 50% of the gross beta activity at WNNDADR.

Tritium concentrations fluctuate through time but average about 3,000 pCi/L (Fig. 3-31), which is higher than tritium concentrations observed in background surface waters.

The pH of water from WNNDADR ranges from 7.4 to 7.9, values that are similar to those observed in background surface waters. TOC and TOX concentrations at WNNDADR are typically two to three times greater than observed in background surface waters. However, the source of the TOCs and TOX at WNNDADR is not clear since groundwater from the SDA and surface water runoff from the NDA and SDA contribute to WNNDADR. Surface water at WNNDADR was sampled on June 9, 1994 and was analyzed for TCL VOCs and SVOCs. No organic compounds were detected during this analysis.

3.2.3 Air

The climate and meteorological conditions of the area are described in the regional air quality section of RFI Volume 1, Introduction and General Site Overview. Since regional winds are predominantly from the west and south during most of the year, only the drum cell unit is potentially downwind of the NDA.

Two buildings are located within the NDA. One building, now called the IWSF, currently stores various materials, some of which are RCRA mixed waste. The other building is a Quonset-style structure (formerly a sprung structure) that houses the LPS, one of the 5,000-gallon n-dodecane tanks, and several 1,000-gallon tanks that are used in the trench interceptor project.

Ambient air monitoring for chemical parameters is not performed at the NDA. Ambient air is continuously monitored for radiological parameters at six perimeter and four background locations, but these locations monitor the entire site and not the NDA directly.

In 1993 the annual average alpha and beta concentrations at the perimeter and remote locations for monthly gross activities were well below the most stringent acceptable limits, the DOE's derived concentration guides (DCGs).

During the summer and fall of 1989 a special air sampling exercise was initiated at several enclosed radioactive waste storage areas on-site. Included in this study were the two buildings located in the NDA. The radioactive parameters evaluated included gross alpha/beta, Cs-137, and tritium. All of the reported values were below the most conservative DCG for radionuclides in air.

In 1989, a soil gas survey was performed in an attempt to locate the lateral extent of migration of TBP/n-dodecane that had been disposed in the NDA. Two sets of soil gas probes were installed for preliminary testing purposes. The areas were chosen based upon their relative remoteness from other burial holes and the known presence of solvent in the subsurface. An ambient air sample was also analyzed at one location. All of the gas samples obtained gave negative or inconclusive results since this type of contamination does not lend itself to soil gas investigations. Since the tanks in the Quonset-style hut are vented to the atmosphere, the emission of airborne radionuclides is possible during normal operations. A qualitative assessment of the health and safety risks associated with operations of the interceptor trench LPS was reported in the Safety Analysis Report for the NDA Interceptor Trench Liquid Pretreatment System (West Valley Nuclear Services Co., Inc. July 3, 1991). The report concluded that routine operation of the NDA interceptor trench LPS will have negligible airborne contaminant effects either on- or off-site. Concentrations in air inside the former sprung structure were estimated to be well below the Derived Air Threshold Limit Values (TLVs) for toxic chemicals. Airborne concentrations of TBP and radionuclides following a spill were considered and were estimated to be insignificant. Doses to the maximally exposed off-site individual from routine airborne emissions of radionuclides are not expected to exceed 1.2E-03 mrem/yr. Since this is less than the 0.1 mrem/yr EPA emission standard, no National Emission Standards for Hazardous Air Pollutants (NESHAPs) permit is required to operate the LPS. The existing air sampling stations located around the site perimeter would ensure detection of any increase in airborne radiological activity.

4.0 Fate and Transport

4.1 Chemicals Identified in the NDA

The materials documented as disposed in the NDA are identified in Section 2.2, Waste Characterization, in Tables 2-1, 2-4, 2-8, and 2-9, and in Appendix B of this report. Based upon the limited documentation available, only lead and some specific laboratory chemicals generated during decontamination activities in the process building during 1982 - 1983 were identified as hazardous constituents.

PC2> Table 4-1 identifies the chemicals removed from the NFS laboratories during a decontamination campaign in 1982-1983. The total quantity of these materials is very small: <1% by volume, <3.3 kg (7 26 lbs) solids, and <157 liters (42 gal) liquid. Moreover, as this waste was stabilized (liquids were solidified in cement and solids were mixed with vermiculite), its transport via the groundwater pathway is considered remote. Further discussion of the toxicological characteristics of these materials will therefore not be discussed.

In addition, TBP/n-dodecane, although not defined as a hazardous waste or constituent by federal and state regulations, has been identified as a contaminant within the NDA and for this reason will be discussed further in this report.

4.2 Chemical Properties and Toxic Profile of Predominant Waste Constituents

Many physical and chemical parameters such as water solubility, vapor pressure, and octanol-water partitioning influence the behavior and fate of organics released into the environment. Similarly, the transport of heavy metals through environmental media is regulated by physicochemical properties that affect the processes of physical sorption, ion exchange, and precipitation mineralization. The extent to which any particular physicochemical parameter influences contaminant mobility is dependent in large part on local environmental factors such as pH, redox potential, temperature, and the concentration of other constituents in the media of concern. Thus, the migration of any contaminant tends to be highly system-specific. However, the examination of a few basic physicochemical properties can provide insight into the anticipated behavior and fate of chemicals released into the environment.

The following is a general summary of these types of factors as they relate to the identified predominant waste constituents in the NDA. The primary references for these discussions are the Hazardous Substances Data Bank (National Library of Medicine September 1992), the International Programme on Chemical Safety (1989; 1991), the Water-related Environmental Fate of 129 Priority Pollutants (U.S. Environmental Protection Agency December 1979), and the Toxicological Profile for Lead (Agency for Toxic Substances and Disease Registry 1990).

- Tributyl Phosphate

TBP is a nonflammable, nonexplosive, colorless, odorless liquid that has a boiling point of 289°C (550°F), a vapor pressure of 0.07 mm Hg at 20°C, and an aqueous solubility of 0.422 mg/L (25°C). TBP is thermally unstable and decomposes at temperatures below its boiling point. It is also believed to hydrolyse readily in

either acidic, neutral, or alkaline solutions. The primary breakdown products of TBP are the dibutyl and monobutyl phosphates.

The fate and transport of TBP in soils or air is unknown. Aquatic studies indicate that TBP associates principally with sediments and is biodegradable in surface water with complete degradation of 1 mg/L occurring over two to thirteen days. Biodegradation involves incremental enzymatic hydrolysis to orthophosphate and n-butanol, with the alcohol undergoing further degradation. The biodegradation rate is apparently dependent on the ratio of TBP to active biomass. The bioaccumulation potential for TBP appears to be low: bioconcentration factors measured for two species of fish ranged from 6 to 49.

There are no adequate data to assess the carcinogenicity of TBP, and the effects on reproduction have not been investigated. However, TBP is reported to be slightly teratogenic at high dose levels in experimental animals.

The noncarcinogenic effects of TBP in humans are primarily manifestations of its irritant properties. Acute exposure to TBP vapors can cause nausea, headache, and irritation of the eyes, nose, and throat. Contact with the liquid may irritate the skin. Ingestion of the liquid can result in pulmonary edema. TBP can be absorbed through the skin, resulting in systemic effects. In large doses, TBP also has a very weak cholinesterase inhibiting effect. Ingestion of doses greater than 100 mL (3.4 oz) might produce muscle weakness, salivation, and respiratory difficulties. Adverse effects associated with chronic exposures to low levels of TBP have not been reported in humans or animals.

With respect to its ecological toxicity, oral LD_{50} values for TBP in mice and rats range from 1 to 3 g/kg (0.016 to 0.48 oz/lb), indicating relatively low toxicity. It is moderately toxic to aquatic organisms, the 96-hour LC_{50} being 2.2 mg/L (ppm) for *Daphnia* and 4.2 to 11.8 mg/L (ppm) for fish (International Programme on Chemical Safety 1991). TBP is highly toxic to plants when applied directly to foliage and is used in desiccant defoliants: direct contact with the liquid increases the drying rate of plant leaves, resulting in rapid and complete inhibition of leaf respiration.

• n-Dodecane

N-dodecane is considered a SVOC that has a vapor pressure of 0.3 mm Hg at 20°C, a boiling point of 101°C [214°F]), aqueous solubility of 4 μg/L at 25°C, and a specific gravity of 0.766 at 4°C. Because of its low solubility and specific gravity, n-dodecane is classified as a light nonaqueous phase liquid (LNAPL).

In water, n-dodecane will decrease in concentration (half-life of 0.5 to 4 days) through adsorption to sediment and particulate matter, through biodegradation by microorganisms capable of breaking down petroleum products, and by volatilization. The dominant mechanism will depend on the weather conditions and characteristics of the body of water. In soil, n-dodecane will biodegrade within several months, especially if microbial populations are acclimated to its presence. In the atmosphere, n-dodecane is most likely to be associated with particulate matter and will be subject to gravitational settling. It is generally resistant to hydrolysis, but the free compound will slowly photodegrade with a half-life of seventeen hours in clean air and four hours in moderately polluted air. There are no known hazardous

decomposition products. It is not bioaccumulated in most mammal or fish species, but it has been observed to bioconcentrate in algae and mussels.

The toxicity of n-dodecane to humans and other animals is relatively low. Acute exposures to concentrated vapors of n-dodecane may cause irritation of the nose and throat, headache, drowsiness, dizziness, confusion, nausea, and difficulty breathing. Very high concentrations may result in unconsciousness and death. Direct skin contact with the undiluted liquid may induce mild irritation and redness. Oral toxicity of the undiluted solvent is low unless the liquid is aspirated into the lungs, which can cause severe lung irritation (chemical pneumonitis) or lung tissue damage (pulmonary edema) and may possibly end in death. The only adverse effects that have been reported in humans following chronic exposure to n-dodecane include skin irritation and dermatitis upon prolonged or repeated contact. Similar observations have been made in chronic studies of animals. The available evidence suggests that n-dodecane is not a carcinogen, although it may be a weak promoter or cocarcinogen. It is also believed that this substance does not represent a reproductive hazard. It is unlikely that n-dodecane will bioaccumulate in humans or other mammals since it is readily metabolized and excreted.

- Lead

Lead has a specific gravity of 11.34, a melting point of 327.5°C (621.5°F), and a boiling point at atmospheric pressure of 1,740°C (3,164°F). The lead deposited in the NDA was primarily lead shielding, which is a relatively stable solid. Previous studies have indicated that lead bricks can be oxidized to form a lead oxide dust. Acid deposition may also cause release of lead from the shielding into the environment.

Lead is transferred continuously between air, water, and soil by natural chemical and physical processes such as weathering, runoff, precipitation, dry deposition of dust, and stream/river flow. However, because of its tendency to form complexes of low solubility with the major anions of the natural environment, soil and sediments appear to be important sinks for lead. Very little of the lead found in soil leaches into surface water or groundwater, nor does it appear that evolution of lead from soil as the volatile organolead compounds occurs to any significant extent. Within aquatic systems, a significant fraction of lead is expected to be in an undissolved particulate form or deposited in sediments. In the atmosphere, lead exists primarily in the particulate form. Once in the atmosphere, lead particulates are either dispersed, transformed by physical and/or chemical processes, or, ultimately, removed from the atmosphere by wet or dry deposition. An important factor in determining the atmospheric transport of lead is particle size distribution. Particles with an aerodynamic diameter greater than 2 μm settle out of the atmosphere fairly rapidly and are deposited relatively close to emission sources, whereas smaller particles may be transported thousands of kilometers.

The bioavailability of lead is limited by its strong adsorption to mineral and organic matter in soil and sediments. Some soil lead is taken up by plants and passed to animals, but a major fraction is accumulated at the surface of root cells. Uptake of inorganic lead reaches equilibrium only after prolonged exposures, and in many organisms it is bioaccumulated. There is very little biomagnification of the metal through foodchains.

Human exposure to lead occurs through a combination of inhalation and oral routes, with inhalation contributing a greater proportion of the dose for occupationally exposed groups and the oral route contributing a greater proportion of the dose for the general population. Dermal absorption of lead is a much less significant route of exposure.

Once in the body, lead preferentially accumulates in the blood, soft tissue, and bone. In human adults, approximately 95% of the total body burden of lead is found in the bones; the remainder is distributed between the erythrocytes, the kidney, the liver, and the brain. Lead is also readily distributed to the fetus.

Human epidemiologic studies have been inadequate in determining the carcinogenic potential of lead.

The carcinogenic potential of lead salts, primarily phosphates and acetates, has been demonstrated in rats and mice following oral administration or injection. However, a carcinogenic response was observed only at high doses. The most characteristic tumor observed in these animals subsequent to lead exposure was bilateral renal carcinoma.

In humans, the most sensitive noncarcinogenic endpoints to low-level exposure to lead include neurobehavioral deficits and growth retardation in infants and young children and hypertension in middle-aged men. Effects on heme synthesis are also observed at very low exposure levels (Agency for Toxic Substances and Disease Registry 1990). There is currently much scientific controversy regarding a safe threshold dose for chronic low-level exposures to lead, and at this time federal regulatory standards are not available. However, regulatory standards are in place for occupational exposures.

4.3 Pathway Assessment

Typical contaminant pathways in environmental settings include groundwater transport to nearby streams, surface erosion and subsequent transport, surface runoff to nearby streams, or atmospheric transport of particulates and gases. Due to the physical nature of the waste, the type of unit design, the hydrogeologic setting, and present management and engineering controls at the NDA, contaminant migration along these pathways is significantly reduced.

4.3.1 Groundwater Pathway

Groundwater flowing through the weathered or unweathered Lavery till in the NDA may mobilize and transport contaminants from the burial area. Any contaminants from the NDA that are mobilized by groundwater are expected to follow either the weathered or unweathered Lavery till groundwater pathways, depending on whether the contaminant-bearing groundwater is above or below the weathered-unweathered Lavery till transition.

The weathered Lavery till is considered to be the major contaminant pathway at the NDA. Groundwater above the weathered-unweathered Lavery till transition is expected to follow the weathered Lavery till groundwater flowpath. Groundwater in the weathered Lavery till mainly flows laterally in a north-northeasterly direction under a hydraulic gradient of 0.02 (Bergeron et al. 1987). A small component of the

groundwater also flows downward into the unweathered Lavery till. In general, the pervasive horizontal and vertical fracture network in the weathered Lavery till largely controls groundwater flow in this unit. Hydraulic conductivities of 2.0E-08 cm/s to 4.0E-05 cm/s have been calculated for the weathered Lavery till, with the highest conductivities attributed to fractures (Prudic 1982). A minimum lateral groundwater flow velocity of 1.4 m/yr (4.5 ft/yr) has been calculated for the weathered Lavery till (West Valley Nuclear Services Inc. 1993).

Groundwater flowing laterally to the NNE through the weathered Lavery till either discharges directly into Erdman Brook, which is about 90 meters (300 ft) north of the NDA, or to the ground surface at seeps, flowing overland into Erdman Brook. Erdman Brook discharges into Frank's Creek approximately 305 meters (1,000 ft) downstream of the NDA. Frank's Creek flows to the north, discharging into Buttermilk Creek about 1,830 meters (6,000 ft) north of the NDA. Buttermilk Creek flows to the northwest, discharging into Cattaraugus Creek approximately 3.0 kilometers (1.9 mi) northwest of the NDA. Cattaraugus Creek discharges into Lake Erie approximately 63 kilometers (39 mi) downstream of the confluence of Buttermilk Creek and Cattaraugus Creek.

The NDA interceptor trench, which is located on the north and east sides of the NDA, was designed to intercept groundwater flow in the weathered Lavery till originating from the NDA and prevent its migration downgradient from the disposal area. The trench was built in response to the migration of TBP/n-dodecane to the weathered Lavery till from several burial holes with rising water levels. Any potential release of RCRA-hazardous constituents from the NDA burial holes to groundwater in the weathered Lavery till is expected to be intercepted by the trench and prevented from reaching surface drainages downgradient of the NDA.

Groundwater below the weathered-unweathered Lavery till interface is expected to follow the unweathered Lavery till groundwater flowpath. Groundwater in the unweathered Lavery till flows mainly downward towards the underlying Kent recessional sequence under an average hydraulic gradient of 1.033 (Bergeron and Bugliosi 1988; West Valley Nuclear Services Inc. 1993). Flow velocities of 2.0E-07 cm/s (0.06 m/yr) are expected for the unweathered Lavery till (West Valley Nuclear Services Inc. 1993).

The low groundwater flow velocities in the unweathered Lavery till require long periods of time for groundwater and potential contaminants to migrate to the underlying Kent recessional sequence. Groundwater and extremely mobile contaminants such as tritium, which are not significantly retarded by the clays and organic matter of the unweathered Lavery till, require hundreds of years to reach the underlying Kent recessional sequence. Relatively immobile constituents, which are expected to be retarded by the clay and organic matter in the unweathered Lavery till, are expected to require thousands of years, if ever, to reach the underlying Kent recessional sequence. Furthermore, any release of ionic contaminants is expected to be immobilized by the clays of the Lavery till through ion-exchange and sorption processes. The unweathered Lavery till groundwater flowpath therefore is not considered to be the major contaminant transport pathway from the NDA to off-site receptors.

Groundwater in the Kent recessional sequence flows laterally to the northeast under a hydraulic gradient of 0.023 and discharges into Buttermilk Creek approximately

730 meters (2,500 ft) east of the NDA (Bergeron et al. 1987). Buttermilk Creek has eroded through the Lavery till and the Kent recessional sequence and is situated in the Kent till in this area. Potential contaminants in the Kent recessional sequence would be transported by advection, while surface flow and sediment transport would be the transport mechanisms in surface waters. The Kent recessional sequence groundwater flowpath is not considered to be a major contaminant transport pathway from the NDA to off-site receptors.

4.3.2 Surface Water Pathway

As discussed, under current conditions contaminant contributions from groundwater to surface water are considered negligible. The NDA interceptor trench effectively intercepts potentially contaminated groundwater in the shallow water-bearing unit (weathered Lavery till). The long groundwater travel times and the sorptive properties of the unweathered Lavery till are believed to preclude any significant transport of contaminants from this unit to nearby surface waters.

The contribution of contamination by surface erosion to surface waters is expected to be minimal since the groundcovers over the NDA are carefully maintained and disturbance is minimal due to limited access to the burial area.

4.3.3 Atmospheric Pathway

The atmospheric transport of particulates and gases from the NDA is not believed to be a significant contaminant pathway, considering current land use practices at the NDA. The probability of transport of waste from the NDA via the atmospheric pathway is considered to be minimal due to the nature of the waste identified in the NDA.

4.4 Potential Human Receptors

No releases of RCRA-regulated hazardous waste or hazardous constituents from the NDA have been identified during this RFI. Thus, the groups identified in this section are considered receptors only if there are future releases from the NDA.

Three human population groups may be affected by contaminants in the NDA: WVDP operator personnel working in the NDA (including DOE, NYSERDA, WVNS, and all subcontractor personnel); other WVDP personnel with limited access to the NDA; and the general population surrounding the site. Each of these populations is discussed individually with respect to the potential for exposure to nonradiological contaminants in the NDA, which is determined in large part by the land and water use patterns associated with that population.

4.4.1 Operator Personnel within the NDA

Under normal operating conditions operator personnel would spend a maximum of one man-hour per day in the NDA. However, this will increase to twenty-four man-hours per day if solvent is detected in WNNDATR and the LPS begins operating to pretreat the contaminated water and TBP/n-dodecane collected in the NDA interceptor trench. Subsurface groundwater collected from the interceptor trench will be pumped to holding tanks where the TBP/n-dodecane and water will be allowed to separate. The water will then be drawn out and treated to remove the trace organics and

radionuclides by adsorption on activated carbon. The treated water will then be sent to the LLWTF for further processing. The LPS will not be operated automatically; each step requires the presence and input of operator personnel.

The significant routes of potential exposure for operator personnel would include inhalation of vapors and particulates and dermal contact with soil or water contaminants. The probability of these types of exposures resulting in an adverse health effect are extremely low because operator personnel wear protective clothing and respirators during all operations in the LPS. This is consistent with the findings of the safety analysis performed by WVNS for operation of the LPS, in compliance with DOE Order 5481.1B, that routine operation poses negligible health and safety impacts to personnel on- and off-site (West Valley Nuclear Services July 3, 1991).

Other personnel with access to the NDA are those individuals whose responsibilities include maintenance of the groundcover over the NDA. An average of eight man-hours per day are spent in the NDA. The most significant potential route of exposure for these individuals is the inhalation of vapors and particulates, particularly the vegetative chafe dispersed into the atmosphere during mowing. However, due to the maintained groundcover and the physical and chemical properties of the waste in the NDA, this route of exposure is thought to be negligible.

4.4.2 On-Site Personnel

The remaining personnel at the WVDP have limited access to the NDA. The closest continuously occupied areas of the process building are 250 to 300 meters (800 to 1,000 ft) south and west of the NDA. Neither groundwater nor surface water from or adjacent to the NDA is used at the process building for process or drinking water supplies.

4.4.3 General Population

The shortest distance to the WNYNSC site boundary from the NDA is approximately 1,600 meters (1 mi) to the northeast, and the nearest off-site residence is located about 1,700 meters (1.1 mi) to the northeast. The closest point of general public access to the site is Rock Springs Road, which traverses the WNYNSC immediately to the west of the site.

The population lives primarily in residential rural areas and in villages. The village nearest to the WNYNSC is Springville, 5.6 kilometers (3.6 mi) north of the site. Springville had a 1990 resident population of 4,310. The only other village within 16 kilometers (10 mi) of the site is Delevan, 14.5 kilometers (9 mi) east-northeast, which had a 1990 resident population of 1,214, up 9.1% from 1980.

The population density (persons per square kilometer) averaged by distance from the site to a radius of 32 kilometers (20 mi) is less than 100 persons per square kilometer. Within an 8-kilometer (5-mi) radius of the site, the population density steadily increases from approximately seven persons per square kilometer at 1.6 kilometers (1 mi) from the site to thirty persons per square kilometer at 4.8 kilometers (3 mi) to eighty-six persons per square mile at 8 kilometers

5 mi) from the site. (For more detailed information on area demographics, see WVDP-RFI-017.)

Land Use Patterns

The land within 8 kilometers (5 mi) of the WNYNSC is used primarily for agriculture and aboriculture. The dominant agricultural activity is related to the dairy industry, with meat production occurring on a smaller scale. Agricultural lands cultivated to produce fruits and vegetables are not as pervasive as cropland or pastureland.

Water Use

Although limited irrigation water for nearby golf course greens and tree farms is taken from Cattaraugus Creek, no public drinking water supply is drawn from the creek downstream of the WNYNSC. The creek is not developed for organized water contact recreation activities, although it is used locally for swimming. Sport fishing occurs primarily near the mouth of the creek at Lake Erie and to a much lesser extent at the Springville Dam. Boating is generally limited to the stretch of water within 3 kilometers (1.9 mi) of the mouth of the creek; occasional canoeing occurs at Zoar Valley, west of the site, when the water depth permits.

A survey of groundwater usage within 3 kilometers (1.9 mi) of the WNYNSC in September 1982 indicated that the vast majority of the wells in the area serve residences and farms. A large percentage of these wells are located on the higher elevations east and west of the WNYNSC. Wells along Route 240 and Dutch Hill Road are typically completed in bedrock. The water in these wells is hydraulically upgradient of the WNYNSC. Other residential wells are located in the lowlands north of the WNYNSC both within and outside the Buttermilk Creek drainage basin. Water supply wells north of the WNYNSC and south of Cattaraugus Creek exploit springs and shallow dug wells completed in the Defiance outwash that overlies the Lavery till in this area. This hydrostratigraphic unit is clearly disconnected from the WNYNSC both hydraulically and topographically. Water supplied from bedrock wells in this area may be hydraulically connected to the surface water system through shales exposed in the lower reaches of Buttermilk Creek. Glacial geologic maps (LaFleur 1979) and boring logs suggest that 15 meters (50 ft) to 45 meters (150 ft) of till overlie the fractured bedrock aquifers at these higher elevations. Bedrock groundwater supplies east and west of the WNYNSC can be assumed to be hydraulically isolated from groundwater in bedrock at lower elevations beneath the WNYNSC. The Lavery till and underlying Kent recessional sequence presently are not drawn upon for groundwater supplies and there is no reason to anticipate that the Lavery, given its hydraulic properties, ever will be considered a source of groundwater. The Kent recessional sequence, however, has many of the properties of an aquifer but is not currently considered a source of groundwater.

5.0 Conclusions and Recommendations

The purpose of the RFI was to determine the nature and extent of releases of hazardous waste or hazardous constituents, as defined in Section III.1 of the Administrative Order on Consent [Docket No. II RCRA-3008(h)-92-0202], from the NDA and other SWMUs included in this SSWMU. Radioactive wastes, including, lead and various laboratory chemicals (see Table 4-1), were disposed in the NDA. Thus certain constituents of the radioactive wastes under current regulations would be considered RCRA-hazardous constituents. Although naphthalene was identified in the 3008(h) Administrative Order on Consent as being associated with the TBP/n-dodecane used by NFS in its solvent extraction process and disposed in the NDA, historical data reviewed did not support the presence of this material.

Following are the recommendations and conclusions for each of the SWMUs in this super SWMU.

NDA Hardstand - The NDA Hardstand, known to have been used to stage waste awaiting burial during NDA and SDA operations, is no longer used for any waste management activities. Surface soil samples collected from the NDA hardstand contain low concentrations of the organic RCRA hazardous constituents benzene, carbon disulfide, and trichloroethylene. The concentration of these compounds did not exceed any corrective action levels in either proposed Subpart S or NYSDEC's TAGM 4046. The source of these compounds may be associated with past waste staging operations. No inorganic RCRA hazardous constituents were detected above proposed Subpart S action levels, with the exception of beryllium, which fell within background concentrations. Based on this information, no further action is recommended for this unit.

Interim Waste Storage Area - Containerized mixed and unclassified wastes are managed in the IWSF in accordance with RCRA requirements for storage of hazardous wastes and the interim status RCRA Part A permit application. Some of these operating requirements include routine inspections, segregation of incompatibles, labeling, actions taken in the event of spills, and closure requirements pursuant to a RCRA closure plan. Based on the construction of the unit, the lack of uncontained spills at the IWSF, and RCRA closure requirements, no further action is recommended for this unit.

Lagoon 2 Transfer Line - The lagoon 2 transfer line, historically used to transfer SDA leachate, is currently used to transfer collected groundwater from the NDA interceptor trench to lagoon 2. The line is routinely pressure tested and blown dry after each use. The only two known breaks in the line occurred during construction activities and did not result in a spill of any liquid. Based on the operation of the unit, no further action is recommended.

The NDA Liquid Pretreatment System - The NDA interceptor trench has to date collected water that has not required pretreatment before its transfer to lagoon 2 for management. As a result the LPS has not been used to treat water from the trench. Consequently, no further action is recommended for the LPS.

NDA (including NFS and WVDP disposal locations) - The weathered Lavery till is the primary contaminant migration pathway at the NDA. Groundwater in the weathered Lavery till has the potential to discharge into nearby streams that flow off-site

into Cattaraugus Creek and into Lake Erie. The NDA interceptor trench was designed and installed to intercept groundwater flow in the weathered Lavery till and to prevent its migration outside the boundaries of the NDA. The NDA interceptor trench is a key control feature for any contaminants that might migrate from the NDA. The trench provides an effective hydraulic cutoff for the primary contaminant pathway from the NDA.

1,4-dioxane was detected once at an estimated concentration of 2 μg/L (below its practical quantitation limit and proposed Subpart S action level) in water from the interceptor trench during 4Q93. Bis(2-ethylhexyl)phthalate, estimated at 16 μg/L, was detected in the interceptor trench above the proposed Subpart S action level of 3 μg/L but below the NYSDEC groundwater standard provided in TAGM 4046 of 50 μg/L. Neither constituent has been detected since the expanded program in the NDA interceptor trench.

No RCRA hazardous constituents were detected in area soils (BH-41 and BH-42) above proposed Subpart S action levels with the exception of beryllium, which fell within site background ranges.

Three naturally occurring metals (cadmium, lead and arsenic) that are classified as RCRA hazardous constituents were detected intermittently in groundwater from both the weathered and unweathered Lavery till wells above proposed Subpart S standards. However, in each case, the concentrations detected fell within the 99% confidence interval of background well 1008c.

The concentration of gross beta and tritium in groundwater from well 909, which is downgradient of the NDA interceptor trench, are elevated above background concentrations. Tritium concentrations are higher in the interceptor trench water than in well 909. However, gross beta concentrations are higher in well 909 than in the interceptor trench. This enigmatic situation suggests that residual radioactivity remaining from past operations at the NDA is currently being detected.

Water level data from wells and piezometers monitoring the weathered Lavery till both inboard and outboard of the interceptor trench indicates the water table in this unit in the NDA is sloping towards and is captured by the NDA interceptor trench. The configuration of the water table in the weathered Lavery till in the NDA was evaluated in two areas along the midpoint and the northeast side of the trench (Table 5-1):

- A north-south line running through well 909, trench manhole #4, and piezometers NDA-WP-B, NDA-WP-C, and 86-I-8 inside the NDA. (See Drawing 900E-4974 in Appendix A for well and piezometer locations.)

- An east-west line running through well 1109a, the interceptor trench, and piezometer B-88-7 inside the NDA. (See Drawing 900E-4974 in Appendix A for well and piezometer locations.)

The hydraulic gradient along the northwest side of the NDA was not evaluated as existing wells were positioned outside the influence of the trench. Therefore, the WVDP proposes to install two additional piezometers, one inside and one outside the northwest side of the NDA trench for this purpose. Water levels from the new and

existing piezometers in the NDA will be used to evaluate the hydraulic gradient along this segment of the trench. An additional piezometer is also proposed along each of the two sections that were evaluated at the midpoint and the northeast side of the trench to provide supplementary hydraulic information. Water levels from these piezometers will be monitored semiannually to verify an inward hydraulic gradient in the weathered Lavery till at the NDA.

Under current land use practices the NDA poses no health risks to on-site personnel and to the general population both in the immediate vicinity and further downstream of the WNYNSC.

Based on the RFI results, no further action other than continued groundwater monitoring at the NDA is deemed necessary. The WVDP will continue monitoring groundwater, surface water and the interceptor trench at the NDA and will continue maintenance of the NDA cover and interceptor trench in accordance with applicable DOE 5400- and 5800-series Orders.

In conjunction with this RFI evaluation, the groundwater monitoring program was examined to ensure efforts are focused appropriately based on hydrogeologic information and sampling results generated to date. As a result of this evaluation, several modifications to the program have been made and are summarized in Table 5-2.

Contamination indicator parameters will be sampled and analyzed for semiannually rather than quarterly. However, the NDA trench sampling location WNNDATR will remain on a quarterly sampling schedule. WNNDATR will also be analyzed for Appendix 33 parameters on a quarterly schedule. Wells at the NDA will no longer be sampled for groundwater quality parameters. The RCRA metals will be sampled semiannually for two years to provide additional information on groundwater conditions in the weathered Lavery till near the NDA. Wells 902 and 1109A will be added to the NDA groundwater monitoring network while well 905 will be removed from further monitoring. However, well 1109A will be monitored only for contamination indicator parameters.

Water levels from standpipes WVTR-8-I-1 and WVTR-9-I-1 in trenches 8 and 9 will no longer be monitored. The water level data from these standpipes are of little value since the standpipes are constructed of nonperforated pipe that terminate within the compacted clay caps of the trenches. Infiltration modeling at trench 11 predicted a water level increase of 1 foot per year.

PC2> Alternatives for the eventual disposition of the NDA are being evaluated in an environmental impact statement (EIS). A draft of the EIS is tentatively scheduled to be issued in 1996.

THIS PAGE INTENTIONALLY LEFT BLANK

References

Agency for Toxic Substances and Disease Registry. 1990. Toxicological Profile for Lead. U.S. Public Health Service.

Bergeron, M.P., W.M. Kappel, and R.M. Yager. 1987. Geohydrologic Conditions at the Nuclear Fuels Reprocessing Plant and Waste Management Facilities at the Western New York Nuclear Service Center, Cattaraugus County, New York. U.S. Geological Survey Water-Resources Investigations Report 85-4145.

Bergeron, M.P., and E.F. Bugliosi. 1988. Groundwater Flow near Two Radioactive - Waste Disposal Areas at the West Valley Nuclear Service Center, Cattaraugus County, New York: Result of Flow Simulation. U.S. Geological Survey Water Resources Investigation Report 86-4351.

Blickwedehl, R.R., J. Goodman, and P.J. Valenti. 1987. Implementation of the Kerosene Mitigation Plan, West Valley Demonstration Project, West Valley, New York. DOE/NE/44139-38 (DE88015385).

Connors, B.J., M.P. Golden, P.J. Valenti, and J.H. Winkel. (WVNS) March 1987. Spent Nuclear Fuel Removal Program at the West Valley Demonstration Project: Topical Report. DOE/NE/44139-37.

Dames & Moore. September 1993. Evaluation of 1991 and 1992 Groundwater Data in Support of the Identification of Wells to Receive Expanded Characterization. Revised October 1993. (See also Schneider, S.G. October 22, 1993. Letter to T.J. Rowland. WD:93:1313.)

Dana et al. 1979. Geologic Study of the Burial Medium at a Low-level Radioactive Waste Burial Site at West Valley, New York. New York State Geological Survey Open-File Report 79-2413.

Davis, John C. 1986. Statistics and Data Analysis in Geology, 2nd ed. New York: John Wiley & Sons.

EAL Corporation. October 4, 1984. Analytical Data, NDA Aqueous Stream.

_____. December 16, 1985. Analytical Data, NDA Aqueous Stream.

_____. January 13, 1986. Analytical Data, NDA Aqueous Stream.

_____. January 28, 1986. Analytical Data, NDA Aqueous Stream.

Fox, J.R. (Dames & Moore) January 3, 1990. Recent NDA "Kerosene" Well Sampling. Memorandum to J.L. Knabenschuh (WVNS). FB:90:0002.

Garland, D.H. (WVNS). January 9, 1992. NDA Pre-Winter Inspection. Letter to R.F. Gessner et al. (WVNS) CL:92:0003.

References (*continued*)

International Programme on Chemical Safety. 1989. Environmental Health Criteria 85: Lead - Environmental Aspects. Geneva, Switzerland: World Health Organization.

_____. 1991. Environmental Health Criteria 112: Tri-n-butyl Phosphate. Geneva, Switzerland: World Health Organization.

LaFleur, R.G. 1979. Glacial Geology and Stratigraphy of Western New York Nuclear Service Center and Vicinity, Cattaraugus and Erie Counties, New York. U.S. Geological Survey Open-File Report 79-989.

National Library of Medicine, Specialized Information Services. September 1992. Toxicology Information Program Online Services (TOXNET). Hazardous Substances Data Bank (HSDB).

New York State Department of Environmental Conservation. January 24, 1994. Division Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels. HWR-94-4046.

Nuclear Fuel Services, Inc. July 1962. Final Safety Analysis Report.

_____. October 27, 1964. Nuclear Fuels Reprocessing Plant Analytical Department Methods and Reprocessing Plant Reagents and Standard Solutions. Sections II and III. NFS RS 41.0.

_____. 1973. Safety Analysis Report: NFS' Reprocessing Plant, West Valley, New York. Vol. 1. AEL Docket Number 50-201, Rev. 0.

Pacific Nuclear Inc. December 22, 1992. Engineering Report for New York State Energy Research Development Authority - Leachate Treatment Facility.

Prudic, D.E. 1982. Hydraulic Conductivity of a Fine-grained Till, Cattaraugus County, New York. In *Groundwater*, Vol. 20, no. 2.

Riethmiller, G.E. June 12, 1981. History of Decontamination. Nuclear Fuel Services, Inc. West Valley, New York.

Roberts, C.J. (Dames & Moore) February 5, 1986. Waste Characterization - NDA Aqueous Stream. Letter to W.H. Hannum (DOE). WD:86:0091.

State Disposal Area Report. 1989. Attachment II to letter FB:89:0012 from C.J. Roberts to W.W. Bixby.

U.S. Environmental Protection Agency. December 1979. Water-Related Environmental Fate of 129 Priority Pollutants. 2 vols. Washington, D.C.: Office of Water Planning and Standards. EPA-440/4-79-029a and EPA-440/4-79-029b.

References (*concluded*)

_____. July 1992. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Draft Addendum to Interim Final Guidance. Washington, D.C.: Office of Solid Waste, Permits and State Programs Division.

_____. November 1992. GRITS/STAT, version 4.2. A Ground Water Information Tracking System with Statistical Analysis Capability. EPA/625/11-91/002.

West Valley Nuclear Services Co., Inc. April 1985. Investigation of the Kerosene - TBP Movement From the NRC Licensed Disposal Area Western New York Nuclear Service Center.

PC1> _____. July 3, 1991. Safety Analysis Report: NDA Interceptor Trench Liquid Pretreatment System. WVNS-SAR-017, Rev. 0.

FC1> _____. Spring 1992. Interim Measures Work Plan: Solvent Migration Containment, NRC-Licensed Disposal Area. West Valley, New York. WVDP-RFI-001, Rev. 0. (See also Provencher, R.B. June 10, 1992. Letter to L.V. D'Andrea et al. DW:92:0867-RFI.)

_____. February 1992. NDA Liquid Pretreatment System Operation. SOP 82-01, Rev. 0.

_____. December 1993. RCRA Facility Investigation (RFI) Work Plan. West Valley Demonstration Project, West Valley, New York. WVDP-RFI-014, Rev. 0.

_____. December 29, 1993. Waste Status Determination. SOP 300-07, Rev. 5.

_____. November 15, 1993. Characterization Report for the NRC-licensed Disposal Area. WVDP-EIS-021, Rev. 0.

_____. June 1994. WVDP Preliminary Review NDA Trench Soil Container Area, SWMU #31. RFI:94:0005. (See also Repp, C.L. June 13, 1994. Final Preliminary Review for 12 SWMUs Under the RCRA Administrative Order on Consent. Letter to T.J. Rowland. WD:94:0610.)

_____. July 1994. Inventories and Descriptions Based on Historical and Process Knowledge Pursuant to Section 7.2.2 of the Federal and State Facility Compliance Agreement (FSFCA), Docket No. II, RCRA-93-0207. (Also referred to as the FSFCA Historical Waste Report).

_____. December 1994. Draft RCRA Facilities Investigation (RFI) Report, Volume 1: Introduction and General Site Overview. West Valley Demonstration Project, West Valley, New York. WVDP-RFI-017. RFI:95:0007. (See also Krieger, L.A. March 27, 1995. Letter to T.J. Rowland. WD:95:0260-RFI.)

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 1 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
1-1	5/02/66 - 6/06/66	3 x 7 x 55	210	Hulls
1-2	6/06/66 - 6/24/66	3 x 7 x 55	148	Hulls, Analytical Waste, Filters
1-3	6/16/66 - 8/22/66	3 x 7 x 55	242	Hulls, PMC Filters, Analytical
1-4	8/24/66 - 9/20/66 11/27/67 - 12/22/67	3 x 7 x 55	177	Hulls, Scrap, Sludge, General Waste
1-5	4/07/67, 2/05/68 - 4/10/68 12/22/67 - 2/05/68	3 x 7 x 55	511	Analytical, Hulls, Filters, General Waste, Solvent Tanks (2)
1-6	1/4/68 - 3/18/68	3 x 7 x 55	249	Filters, Scrap, Hulls, Analytical, General Waste
2-1	9/15/66 - 11/01/66	3 x 7 x 55	207	Hulls, Filters, Analytical, Scrap
2-4	5/04/68	Unknown	510	Filters
2-5	4/15/68 - 5/17/68	3 x 7 x 55	645	Hulls, Filters, General Waste, Analytical, Scrap
2-6	3/12/68 - 4/08/68	3 x 7 x 55	140	Hulls, Analytical, General Waste
3	12/5/66 - 3/17/67	Unknown	121	Hulls, Scrap
3-1	11/07/66 - 12/16/66	3 x 7 x 55	132	Hulls, Scrap, General Waste, Filters
3-4	7/03/68 - 7/25/68	3 x 7 x 55	165	Hulls, Filters, General Waste
3-5	6/10/68 - 7/15/68	3 x 7 x 55	532	Hulls, Analytical, Scrap, General Waste
3-6	5/20/68 - 6/07/68	3 x 7 x 55	229	Hulls, General Waste, Analytical, Scrap
4-5	8/08/68 - 8/30/68	3 x 7 x 55	103	Hulls, Filter
4-6	7/26/68 - 8/22/68	3 x 7 x 55	153	Hulls, Analytical, Filters
6-1	5/02/67 - 6/12/67	3 x 7 x 55	403	Hulls, Filters, Scrap, Analytical
6-2	6/14/67 - 7/19/67	3 x 7 x 55	263	Hulls, Scrap, Analytical, Filters, General Waste
6-6	8/27/68 - 10/01/68	3 x 7 x 55	226	Hulls, Filters, Scrap, General Waste

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 2 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
7-0	7/21/67 - 7/31/67	3 x 7 x 55	262	Hulls, Filters, Analytical, Scrap, General Waste
7-1	8/17/67 - 9/05/67	3 x 7 x 55	416	Hulls, General Waste, Scrap, Filters
7-2	8/01/67 - 8/17/67	3 x 7 x 55	229	Hulls, Scrap, General Waste
7-3	8/01/67	3 x 7 x 55	308	Hulls, FRS Resin, General Waste (resin concreted in bottom of hole)
8-1	8/19/67	3 x 7 x 55	379	Filters
8-2	9/07/67 - 10/09/67	3 x 7 x 55	298	Hulls, Filters, General Waste, FRS Resin (resin encased in concrete)
8-3	9/26/67 - 10/30/67	3 x 7 x 55	69	Hulls, General Waste
8-6	10/02/68 - 11/19/68	3 x 7 x 55	309	Hulls, Filters, General Waste
9-1	10/18/67 - 11/09/67	7 x 15 x 55	159	Filters, Scrap, General Waste
9-2	10/08/67 - 11/07/67	3 x 7 x 55	227	Hulls, Scrap, Filters
10-1	10/01/67	Unknown	135	Solidified Solvent (1 tank), General Waste
10-2	10/01/67	Unknown	135	Solidified Solvent (1 tank)
10-3	11/10/67 - 11/24/67	3 x 7 x 55	172	Hulls, Scrap, General Waste
11-3	11/27/67	3 x 7 x 55	63	Resin Tank
12	12/21/67	Unknown	270	High-Level Solvent Tanks (2)
13	4/08/68	Unknown	71	FRS Resin Tank Encased in Concrete
42	11/26/68 - 1/13/69	3 x 7 x 55	225	Hulls, Filters, General Waste
43	1/15/69 - 1/24/69	3 x 7 x 55	75	Hulls, Filters, General Waste
44	1/30/69 - 2/20/69	3 x 7 x 55	130	Hulls, Filters, General Waste
45	2/21/69 - 03/24/69	3 x 7 x 55	347	Hulls, Filters, General Waste
46	3/25/69 - 4/03/69	3 x 7 x 55	222	Hulls, Filters, General Waste

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 3 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
47	4/07/69 - 4/30/69	3 x 7 x 55	207	Hulls, Filters, General Waste
48	5/05/69 - 5/23/69	3 x 7 x 55	199	Hulls, Filters, General Waste, Ruptured Fuel Encased in Concrete
49	5/26/69 - 6/06/69	3 x 7 x 55	184	Scrap, Filters, Analytical, Hulls
50	6/09/69 - 6/26/69	3 x 7 x 55	241	Hulls, Scrap, Filters, General Waste
51	7/02/69 - 7/25/69	3 x 7 x 55	378	Hulls, Filters, Analytical, General Waste, Scrap, Resin Encased in Concrete
52	8/04/69 - 9/03/79	3 x 7 x 55	219	Hulls, Scraps, Filters
53	9/04/69 - 10/06/69	3 x 7 x 55	324	Hulls, Filters, Scrap, Culligans
54	10/08/69 - 10/30/69	3 x 7 x 55	259	Hulls, Filters, Culligans, Resin Beds, Analytical
55	11/03/69 - 12/22/69	3 x 7 x 55	326	Hulls, Scrap, Filters, General Waste
56	1/29/70 - 3/27/70	3 x 7 x 55	592	Hulls, Scrap, General Waste
57	3/19/70 - 3/27/70	3 x 7 x 55	133	Filters, Scrap, Culligans, General Waste
58	4/01/70 - 4/14/70	3 x 7 x 55	131	Hulls, Filters, General Waste
59	4/15/70 - 4/29/70	3 x 7 x 55	268	Hulls, Filters, General Waste, Culligans
60	5/13/70 - 6/03/70	3 x 7 x 55	194	Hulls, Culligans, Scraps, General Waste
61	6/03/70 - 7/70/70	3 x 7 x 55	240	Culligans, Hulls, General Waste
62	7/10/70 - 8/21/70	3 x 7 x 55	324	Hulls, Analytical, Filters, Scrap
63	7/29/70 - 8/14/70	3 x 7 x 55	230	Hulls, Scrap, Culligans, General Waste
64	8/19/70 - 8/31/70	3 x 7 x 55	183	Hulls, General Waste, Culligans
65	9/04/70 - 9/20/70	3 x 7 x 55	352	Hulls, Culligans, Filters, General Waste
66	9/11/70 - 10/16/70	3 x 7 x 55	281	Hulls, Scraps, Filters, General Waste, Resin Encased in Concrete
67	10/19/70 - 11/05/70	3 x 7 x 55	261	Hulls, Culligans, Filters, General Waste, Scrap

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 4 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
68	11/12/70 - 11/30/70	3 x 7 x 55	791	Filters, General Waste
69	11/30/70 - 12/15/70	3 x 7 x 55	486	Filters, Hulls, Scrap, General Waste
70	12/16/70 - 12/21/70	3 x 7 x 55	39	Hulls, General Waste
71	12/21/70 - 1/07/71	3 x 7 x 55	307	Hulls, General Waste, Scrap, Filters, Analytical
72	1/08/71 - 2/09/71	3 x 7 x 55	326	Hulls, Scrap, Filters, General Waste
73	2/11/71 - 3/08/71	3 x 7 x 55	331	Hulls, Scrap, Filters, General Waste
74	3/05/71 - 4/02/71	3 x 7 x 55	207	Hulls, Scrap, analytical, Filters, General Waste
75	4/07/71 - 4/21/71	3 x 7 x 55	168	Culligans, Filters, Scrap, Hulls, Casings
76	4/23/71 - 5/21/71	3 x 7 x 55	214	Hulls, General Waste, Filters, Scrap
77	5/13/71 - 6/08/71	3 x 7 x 55	728	Hulls, Scrap, Culligans, Filters, General Waste
78	6/08/71 - 6/28/71	3 x 7 x 55	158	Hulls, Scrap, General Waste, Contains High-level Hole Chute for Interim Storage
79	6/21/71	3 x 7 x 55	1558	Hulls, Filters, General Waste, Scrap, Clean empty birdcages
80	6/29/71 - 7/08/71	3 x 7 x 55	904	Hulls, Filters, Scrap, Clean empty birdcages
81	7/08/71 - 7/16/71	3 x 7 x 55	362	Hulls, Scraps, O_2 Resins, Analytical, General Waste
82	7/19/71 - 7/29/71	3 x 7 x 55	414	Hulls, General Waste, Scrap
83	8/02/71 - 8/31/71	3 x 7 x 55	447	General Waste, Filters
84	9/02/71 - 9/20/71	3 x 7 x 55	407	Hulls, General Waste, Analytical, O_2 Resin
85	9/20/71 - 10/07/71	3 x 7 x 55	296	Hulls, Scrap, Culligans, O_2 Resin, General Waste
86	10/12/71 - 10/25/71	3 x 7 x 55	792	Hulls, General Waste, Filter
87	10/21/71 - 11/08/71	3 x 7 x 55	273	Hulls, Filters, General Waste
88	11/01/71 - 11/09/71	3 x 7 x 55	161	Fuel Casings, Hulls, O_2, Filters, General Waste

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 5 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
89	9/20/71 - 12/01/71	3 x 7 x 55	318	Hulls, Fuel Casings, Analytical, General Waste, Filters
90	11/09/71 - 12/17/71	3 x 7 x 55	151	Fuel Casings, Scraps, Hulls, Filters, Culligans
91	12/09/71 - 12/27/71	3 x 7 x 55	121	Scrap, General Waste, Filters
92	12/20/71 - 1/17/72	7 x 63 x 55	132	General Waste, O_2 Resin, Scrap, Filters, Hulls
93	1/10/72 - 1/24/72	6 x 10 x 55	99	General Waste, Filters
94	1/14/72 - 2/10/72	5 x 5 x 55	231	General Waste,Scrap, Filters
95	1/28/72 - 2/23/72	3 x 7 x 55	384	General Waste, Culligans, O_2 Resin
96	2/16/72 - 4/03/72	3 x 7 x 55	443	General Waste, Filters, FRS Waste, Hulls, Resin Bed
97	4/03/72 - 5/30/72	3 x 7 x 55	182	General Waste, Filters, Hulls
98	6/06/72 - 7/12/72	3 x 7 x 55	418	Scrap, FRS Waste, General Waste, Filters, O_2 Resin
99	7/14/71 - 9/08/72	3 x 7 x 55	157	Hulls, FRS Waste, Filters, Analytical, General Waste
100	9/12/72 - 10/23/72	3 x 7 x 55	205	Scrap, Hulls, Culligans, FRS
101	10/23/72 - 11/09/72	3 x 7 x 55	94	FRS Filters/Resin
102	11/16/72 - 3/27/73	3 x 7 x 55	127	FRS Filters, General Waste, Sludge
103	6/2/75	Unknown	Unknown	Contaminated Soil (contained high-level hole chute that was exhumed and replaced with contaminated soil.)
SH-1	7/12/68 - 7/15/68	10 x 10 x *	1,462	Filters, General Waste, Soils, Solvents
SH-2	7/18/68	12 x 25 x *	1,963	General Waste
SH-3	9/04/68 - 9/06/68	4 x 30 x *	787	Scrap, Filters, General Wastes
SH-4	1/27/69	4 x 10 x *	55	Resin Tanks

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 6 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-5	5/07/69	7 x 18 x *	540	Solvent Absorbed in Vermiculite
SH-6	6/29/69	7 x 15 x *	234	Filters
SH-7	8/13/75	30 x 18 x *	3136	General Waste, Scrap
SH-8	8/10/69	6 x 6 x 10	99	Filters, General Waste, Fuel Receiving and Storage (FRS), Resin Tanks
SH-9	8/25/69	12 x 30 x *	2144	Scrap (Dissolver, IX cask [11'5"x11x10.5'], Truck [34'x12'x20'])
SH-10	9/16/69 - 10/09/69	8 x 10 x *	832	Solvent Absorbed in Vermiculite
SH-11	11/07/69	9 x 10 x *	704	Filters, Solvent in Vermiculite, Culligans
SH-12	1/23/70 - 3/06/70	10 x 25 x *	411	Filters, General Waste
SH-13	5/21/70	9 x 10 x *	405	Solvent Absorbed in Vermiculite
SH-14	8/04/70	5 x 10 x *	270	Solvent Absorbed in Vermiculite
SH-15	9/30/70	Unknown	251	General Waste, FRS
SH-16	11/06/70	12 x 10 x 12	540	Filters
SH-17	11/06/70	6 x 6 x 10	76	FRS Resin Bed
SH-18	11/13/70 - 3/30/71	10 x 7 x *	409	FRS, General Waste, Scrap, Railroad Ties
SH-19	7/29/71	Unknown	644	Scrap, Filters, O_2 Resin
SH-20	11/09/71	9 x 9 x *	284	Filters
SH-21	11/12/71 - 11/15/72	7 x 16 x *	384	Scrap Metal
SH-22	11/22/71 - 1/13/72	7 x 50 x *	1425	Filters, Scrap, General Waste
SH-24	2/2/72 - 2/4/72	3 x 7 x *	192	FRS Waste
SH-25	3/10/72	7 x 9 x *	288	Scrap (Process Mechanical Cell [PMC] saw)

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 7 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-26	3/13/72	7 x 9 x *	636	General Waste, Scrap, Resin Catch Tank
SH-27	3/27/72	10 x 12 x *	300	Solvent, General Waste
SH-28	3/21/72 - 3/29/72	10 x 10 x *	428	Solvent, General Waste
SH-29	4/03/72	4 x 15 x *	150	Solvent
SH-30	4/06/72	3 x 6 x *	128	General Waste
SH-31	4/11/72	3 x 14 x *	288	Scrap
SH-32	4/17/72	3 x 7 x *	128	General Waste
SH-34	4/21/72 - 5/04/72	13 x 15 x *	571	Filters, General Waste
SH-35	5/09/72 - 5/17/72	6 x 10 x *	340	General Waste, Scrap, FRS Waste (1,000-gallon tank)
SH-36	5/17/92 - 5/22/72	7 x 16 x *	508	FRS Waste (1,000-gallon tank)
SH-37	5/31/72	4 x 15 x *	157	General Waste (1,000-gallon tank)
SH-38	6/05/72 - 6/30/72	8 x 8 x *	455	Culligans, Filters, Resin (1,000-gallon tank)
SH-39	6/72	9 x 75 x *	13,050	Contaminated Soil (261 loads of soil in SH 39, 40, & 41)
SH-40	6/72	12 x 75 x *	13,050	Contaminated Soil (261 loads of soil in SH 39, 40, & 41)
SH-41	6/72	10 x 58 x *	13,667	Contaminated Soil, FRS (261 loads of soil in SH 39, 40, & 41)
SH-42	7/13/72	7 x 16 x *	430	General Waste (lead shielding)
SH-43	7/18/72	9 x 13 x *	300	FRS Waste (two 1,000-gallon tanks)
SH-44	7/24/72	9 x 15 x *	143	Culligans, General Waste
SH-45	7/25/72 - 8/08/72	8 x 12 x *	380	Filters, General Waste
SH-46	8/8/72	Unknown	128	General Waste

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 8 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-47	8/10/72	8 x 10 x *	221	General Waste, Culligans
SH-48	8/21/72	9 x 17 x *	144	Filters, Scrap
SH-49	8/24/72	Unknown	187	Culligans, FRS (1,000-gal tank)
SH-50	9/07/72	Unknown	128	General Waste
SH-51	11/10/72 - 11/13/72	Unknown	1788	Scrap, FRS Waste (resin beds)
SH-52	11/13/72	7 x 10 x *	282	FRS Waste
SH-53	11/27/72	Unknown	615	FRS Waste (tanks)
SH-54	12/19/72	5 x 15 x *	465	FRS Waste (3,000-gallon tank)
SH-55	4/02/73	4 x 11 x *	179	FRS Waste
SH-56	6/21/73	4 x 12 x *	150	FRS Waste (steel tank)
SH-57	6/21/73	3 x 11 x *	150	FRS Waste (steel tank)
SH-58	10/02/73	4 x 11 x *	165	FRS Waste
SH-59	10/03/73 - 10/04/73	3 x 4 x *	11	FRS Waste
SH-60	11/05/73 - 12/03/73	5 x 13 x *	172	FRS Waste, General Waste, Scrap
SH-61	12/12/73	5 x 10 x *	128	Scrap (birdcage)
SH-62	12/13/73	2 x 5 x *	59	Scrap (Pu-contaminated waste; birdcages in concrete)
SH-63	12/14/73	2 x 6 x *	29	Scrap (Pu-contaminated waste; birdcages in concrete)
SH-64	1/09/74	2 x 8 x *	74	Scrap (Pu-contaminated waste; birdcages in concrete)
SH-65	2/05/74	4 x 10 x *	166	Filters, Resin
SH-66	4/02/74	3 x 4 x *	320	Scrap (tank)

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 9 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-67	6/03/74	4 x 7 x *	24	Scrap
SH-68	7/03/74	4 x 10 x *	182	Scrap, FRS Waste
SH-69	9/12/74	4 x 7 x *	45	FRS Waste
SH-70	9/26/74 - 10/06/74	6 x 10 x *	202	Culligans, Filters, Scrap, General Waste
SH-71	10/07/74	3 x 7 x *	173	FRS Waste (1,000-gallon tank)
SH-72	10/25/74	12 x 70 x 19	8690	Discarded Equipment and Casks (rail car, dissolver, evaporator)
SH-73	11/13/74	6 x 8 x *	74	Filters
SH-74	11/22/74	6 x 10 x *	194	FRS Waste (Resin in a 1,000-gallon tank)
SH-75	1/07/75	6 x 10 x *	150	FRS Waste
SH-76	3/14/75 - 3/31/75	7 x 11 x *	1,103	Filters, O_2 Solids, General Waste, FRS (resin in a 1,000-gallon tank)
SH-77	Unknown	7 x 40 x *	Unknown	unknown
SH-78	Unknown	7 x 20 x *	Unknown	Recoverable Hole Chute
SH-79	Unknown	7 x 33 x *	Unknown	Birdcages
SH-80	7/14/75	Unknown	507	General Waste, O_2 Solids
SH-81	8/05/75 - 8/12/75	7 x 10 x *	418	General Waste, Debris, Soils
SH-82	9/02/75 - 9/24/75	7 x 20 X 14	977	O_2 Sludge, Filters, General Waste, Resin in 1,000-gallon Tank
SH-83	10/17/75 - 10/21/75	7 x 15 x 14	1237	General Process Building waste, O_2 Solids
SH-84	11/04/75 - 11/14/75	7 x 15 x *	711	General Waste, O_2 Solids, Resin in 1,000-gallon Tank
SH-85	12/18/75	7 x 15 x *	1260	O_2 Solids, General Waste, FRS Waste
SH-86	12/30/75	7 x 12 x *	108	General Waste, Filters

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 10 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-87	1/16/76 - 1/26/76	8 x 14 x *	816	O_2, Filters, General Waste
SH-88	2/16/76	10 x 15 x *	339	FRS, General Waste (tools, paper)
SH-89	3/9/76	7 x 15 x *	790	O_2, General Waste
SH-90	3/19/76	6 x 9 x *	473	O_2, General Waste
SH-91	4/09/76	6 x 15 x *	459	FRS (interceptor resin)
SH-92	5/14/76	6 x 10 x *	398	O_2
SH-93	6/02/76	6 x 14 x *	773	O_2, General Waste (plywood)
SH-94	6/30/76	6 x 13 x *	321	FRS, General Waste, Analytical
SH-95	8/06/76	7 x 20 x *	581	O_2, FRS,General Waste
SH-96	9/02/76	7 x 16 x *	489	O_2, FRS,General Waste
SH-97	9/24/76	8 x 20 x *	541	O_2, FRS,General Waste
SH-98	10/05/76	7 x 16 x *	451	O_2, FRS,General Waste
SH-99	10/08/76	15 x 30 x *	7506	Fuel Canisters
SH-100	10/29/76	10 x 20 x *	522	O_2, General Waste
SH-101	12/15/76	10 x 25 x *	672	Filters, FRS, Scrap (motor, pipe, plywood, cement)
SH-102	1/13/77	10 x 27 x *	354	FRS, Filters, General Waste
SH-103	2/16/77	12 x 10 x *	345	O_2, FRS
SH-104	2/25/77	10 x 10 x *	393	O_2, FRS, General
SH-105	4/01/77 - 4/05/77	10 x 125 x *	7601	O_2, Filters, Lead, Scrap (canister spacings, motors, lead, tools)
SH-106	5/03/77	9 x 10 x *	96	FRS, General Waste (hardstand sweepings)

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 11 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-107	6/03/77	10 x 25 x *	427	O_2, FRS, General Waste (cable)
SH-108	6/30/77 - 6/31/77	13 x 19 x *	600	O_2, Filters, General Waste
SH-109	8/23/77 - 8/24/77	12 x 22 x *	734	O_2, Scrap (conduit, pipe, boards)
SH-110	10/11/77	12 x 16 x *	559	O_2, FRS, General Waste
SH-111	11/17/77 - 11/18/77	10 x 24 x *	858	Scrap, FRS, O_2, General Waste
SH-112	12/28/77	10 x 18 x *	470	O_2, Filters, General Waste
SH-113	1/25/78	12 x 21 x *	532	FRS, General Waste
SH-114	3/16/78	12 x 24 x *	699	O_2, General Waste, FRS
SH-115	3/20/78	6 x 11 x *	102	FRS, General Waste
SH-116	5/13/78	12 x 45 x *	1800	O_2, FRS, Scrap (pipe, lumber)
SH-117	7/01/78	10 x 14 x *	423	Filters, General Waste
SH-118	9/02/78	12 x 15 x *	701	O_2, Liners, FRS
SH-119	11/18/78	15 x 14 x *	790	O_2, Filters, Contaminated Soil
SH-120	1/20/79	11 x 15 x *	495	Unknown
SH-121	3/15/79	12 x 20 x *	823	O_2, FRS, General Waste
SH-122	4/11/79	20 x 26 x *	793	O_2, FRS, General Waste
SH-123	6/02/79	5 x 9 x 50	571	FRS, Scrap, O_2
SH-124	6/09/79	5 x 9 x 30	250	General Waste, O_2
SH-125	8/18/79	12 x 20 x *	378	FRS, O_2, General Waste
SH-126	9/22/79	15 x 22 x *	801	O_2, FRS, General Waste

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

TABLE 2-1

NFS BURIAL HOLE SUMMARY
NDA BURIAL AREA
(PAGE 12 OF 12)

BURIAL HOLE NO.	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	GENERAL WASTE TYPES
SH-127	11/01/79	12 x 12 x *	741	O_2, Scrap (pipe, rags)
SH-128	1/09/80	12 x 15 x *	710	O_2, FRS, General Waste
SH-129	3/25/80	10 x 10 x *	583	O_2, Filters, General Waste
SH-130	4/10/80	10 x 19 x *	822	O_2, FRS, General Waste
SH-131	7/15/80	12 x 14 x *	638	FRS, O_2, General Waste
SH-132	9/09/80	12 x 14 x *	851	O_2, FRS, General Waste
SH-133	12/09/80	15 x 16 x *	1372	O_2, General Waste
SH-134	2/11/81	11 x 18 x *	1165	O_2, FRS, General Waste
SH-135	4/18/81	10 x 10 x *	1172	O_2, Contaminated Soil, General Waste
SH-136	6/13/81	12 x 16 x *	1082	O_2, FRS, General Waste
SH-137	9/12/81	10 x 15 x *	906	FRS, O_2, General Waste
SH-138	11/13/81	37 x 10 x *	3319	FRS, O_2, General Waste, Scrap (trucks, tools, cask)

* Depth was typically 20 feet but varied based on dimensions of the waste to be buried.

Table 2-2

NDA Map and Database Discrepancies

Disposal Unit	Discrepancy
2-1	Not shown on NDA map; however, data is available to suggest disposal operations.
2-2	Shown on NDA map; however, no records of disposal available.
2-3	Shown on NDA map; however, no records of disposal available.
2-4	Shown on NDA map; however, no records of disposal available.
3-1	Not shown on NDA map; however, data is available to suggest disposal operations.
3-3	Shown on NDA map; however, no disposal records available.
4-3	Shown on NDA map; however, no disposal records available.
5-1	Shown on NDA map; however, no disposal records available.
5-2	Shown on NDA map; however, no disposal records available.
5-3	Shown on NDA map; however, no disposal records available.
5-A	Shown on NDA map; however, no disposal records available.
6-3	Shown on NDA map; however, no disposal records available.
7-0	Not shown on NDA map; however, data available to suggest disposal operations.
8-1	Shown on NDA map; however, no disposal records available.
9-3	Shown on NDA map; however, no disposal records available.
10-1	Shown on NDA map; however, no disposal records available.
10-2	Shown on NDA map; however, no disposal records available.
13	Not shown on NDA map; however, disposal records available.
79-A	Shown on map; however, no disposal records available.
SH-5	Two holes are designated SH-5.
SH-20	Shown on NDA map as not used; however, data suggest that waste was placed in unit.
SH-33	Shown on NDA map; however, no disposal records available.
SH-07	Not shown on NDA map; however, data is available to suggest waste was placed in unit.

Table 2-3

Settlement Plate Elevation Data (feet) From NDA Trench 11

#	Date				
	09/21/87	06/06/91	09/21/93	03/08/94	03/21/95
1	1390.65	1390.85	1390.83	1390.82	1390.65
2	1391.45	1391.72	1391.72	1391.70	1391.19
3	1392.21	1392.45	1392.02	1392.01	1392.21
4	1392.73	1392.96	1392.53	1392.93	1392.73
5	1392.98	1393.21	1392.77	1392.19	1392.98
6	1393.47	1393.70	1393.69	1393.69	1393.47

Source: Garland, D.H. January 9, 1992. NDA Pre-Winter Inspection.

Table 2-4

Summary of WVDP Disposals in the NDA

UNIT NAME	DISPOSAL DATES	APPROXIMATE DIMENSIONS (ft)	QUANTITY OF WASTE (ft^3)	WASTE TYPES
WVDP-1	3/27/82 - 6/11/82	7 x 15 x 18	2605	FRS, Analytical, Scrap, General Waste
WVDP-2	6/12/82 - 10/26/82	17 x 24 x 18	3133	Scrap, O_2, General Waste, Debris
WVDP-3	10/27/82 - 4/17/83	14 x 57 x 30	16,435	General Waste, O_2, Scrap, Soil (dirt from east ditch)
WVDP-4	4/18/83 - 7/27/83	15 x 42 x 30	12,008	O_2, General Waste, Scrap, FRS
WVDP-5	7/28/83 - 9/24/83	14 x 42 x 30	14,363	O_2, General Waste, FRS
WVDP-6	9/25/83 - 10/20/83	32 x 38 x 30	13,263	General Waste, Scrap, Soil, O_2, FRS (lagoon soil)
WVDP-7	11/3/83	14 x 30 x 30	4890	General Waste, FRS, Scrap
WVDP-8	9/11/84 - 10/11/84	15 x 250 x 30	29,000	General Waste, Soil, FRS, Scrap, Filters (lead, oil, solvents)
WVDP-9	5/6/85 - 6/12/85	15 x 250 x 30	29,000	O_2, General Waste, Soils, Scrap, Analytical
WVDP-10	4/26/85	15 x 20 x 15	2,000	Soil
WVDP-11	11/6/86	15 x 120 x 35	19,996	O_2, General Waste, Soils, Scrap, Fuel Canisters
WVDP-12	8/10/86	45 x 50 x 25	54,000	Soils
Caisson #1	10/21/83	7' diam. x 55' deep	823	Cemented O_2 Sludge, FRS Gravel
Caisson #2	4/25/84	~7' diam. x 63' deep	~1000	Soils, General Waste
Caisson #3	5/4/84	~7' diam. x 63' deep	~1000	Soils, General Waste
Caisson #4	5/11/82	~7' diam. x 63' deep	~1000	Soils, General Waste

Table 2-5

NDA Trenches 8, 9, and 11 Standpipe Monitoring Results (WVDP)

	Ground Level	Bottom of Standpipe	Water Ele on 08/91	Water Ele on 06/92	Water Ele on 07/92	Water Ele on 08/92	Water Ele on 10/92	Water Ele on 12/92	Water Ele on 03/93	Water Ele on 06/93	Water Ele on 10/93	Water Ele on 01/94	Water Ele on 02/94	Water Ele on 06/94
WVTR-8-I-1	1389.0	1373.0	1373.3	1373.4	1376.7	1373.7	1373.9	1375.8	1376.0	1375.3	1375.8	1376.5	1376.0	1376.4
WVTR-9-I-1	1389.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0
WVTR-11-I-2	1388.6	1372.1	1380.0	1377.8	1377.9	1377.9	1377.8	1378.1	1377.4	1377.2	1377.7	1377.3	1376.8	1377.3
WVTR-11-B-1	1388.6	1343.6	1359.0	1359.5	1359.8	1359.8	1359.8	1360.3	1360.5	1360.5	1360.9	1358.8	1360.7	1360.7
WVTR-11-I-1	1388.6	1372.1	1380.4	1377.6	1377.7	1377.7	1377.7	1377.5	1377.1	1377.5	1377.5	1377.3	1376.9	1377.4

The action level or elevation is 1,370 feet on standpipe WVTR-11-B-1. This standpipe rests on the bottom of WVDP trench 11.

Table 2-6

Fuel Reprocessing Chemicals Used in NFS Operations

Process/System	Chemical/Material Used
Chop-leach	Mild Steel $Hg(N0_3)_2$ — (mercuric nitrate; reportedly not used after first few runs) $HN0_3$ — Nitric Acid
Solvent Extraction	$Fe(S0_3NH_2)_2$ — Ferrous Sulfamate $NaN0_2$ — Sodium Nitrite H_2S0_4 — Sulfuric Acid
Solvent and Treatment	Tributyl Phosphate (TBP) $NaC0_3$ and $HN0_3$ — Sodium Carbonate and Nitric Acid Dodecane, $C_{12}H_{26}$ — Isomers
D&D	$HN0_3+CH_3C00H$ — Nitric Acid + Acetic Acid $Na0H + H_6C_40_6$ — Sodium Hydroxide and Tartaric Acid $KMn0_4$ — Potassium Permanganate Citric Acid $H_2C_20_4$ — Oxalic Acid $C_6H_9N0_6$ — Nitrilotri-Acetic Acid KCr_20_7 — Potassium Dichromate NH_4F — Ammonium Fluoride $(Al(N0_3)_3)$ — Aluminum Nitrate
Zirflex Declad	$HF + HN0_3$ — Hydrofluoride and Nitric Acid $Al(N0_3)_3$ — Aluminum Nitrate
Metal-X Fire Systems	$NaCl + MgCl_2$ — Sodium Chloride and Magnesium Chloride
Maintenance Shop	Molykote (MoSx) Oils and Grease Trichloroethylene (TCE) degreaser
Common Laboratory Chemicals-	Theanyltrifluoracetone (TTA) Xylene Toluene Hexone 1,4 Dioxane Monoethylamine (was mistakenly ordered and disposed of in the NDA; ~144 pints)

D&D - Decontamination and Decommissioning

Table 2-7

NDA Roll-Off Composite Soils Radionuclide Sampling Results (μCi/g)

NUCLIDE	SAMPLE #1	SAMPLE #2	SAMPLE #3
Co-60	1.95E-07	1.85E-08	1.26E-07
Cs-134	<2.49E-08	5.83E-08	<2.91E-08
Cs-137	2.10E-05	1.09E-05	1.28E-05
Eu-152	1.62E-07	<2.45E-07	<1.43E-07
Eu-154	1.80E-07	<9.49E-08	<1.04E-07

Table 2-8

NDA Waste Disposal Summary Profile

CATEGORY	NFS - 162,000 ft³		WVNS - 205,000 ft³	MAXIMUM POTENTIAL TOTAL *	APPROXIMATE % OF TOTAL DISPOSAL BY VOLUME	GENERAL LOCATION OF BURIAL
	1966 - 1975	1976 - 1981	1982 - 1986			
Hulls	7,403	0	0	7,403	2%	Southeast Quadrant
Culligans, FRS, Filters	18,002	35,718	1,220	54,940	14%	Throughout NDA, but more predominant in Southeast Quadrant
Solvent-contaminated Materials	4,302	711	367***	5,830	1%	North Boundary Section
O_2 Sludge	1,384	39,299	12,852	53,535	13%	
HLW and General Process Building Waste	9,093	11,319	56,696	77,108	20%	
Fuel	39	0	0	39	<.01%	Holes 48 & 102 - Northeast Quadrant
Contaminated Soils	40,830	1,172	103,305	145,307	36%	North Boundary Section
Scrap, Junk, Debris	4,080	11,588	11,597	27,265	6%	
Analytical	722	321	390	1,433	<1%	
Fuel Canisters	28	7,506	3,780	11,314	3%	Holes 88, 89, 90 and WVDP-11
Lead	4	7601**	9	7614	2%	SH-105 and WVDP-8
Miscellaneous	N/A	N/A	10,523	10,523	3%	

* Maximum potential disposal of targeted waste streams (will not equal the total amount disposed).
** This quantity is based on the total amount disposed of in SH-105 as the specific quantity for lead was not given. Thought to be very high.
*** There was a discrepancy between two different tracking databases, therefore this quantity represents the worse case scenario.

FRS - Fuel receiving and storage
HLW - High-level waste

Table 2-9

Known TBP/n-Dodecane Disposals in the NDA

Date of Disposal	Hole#	Volume ft^3	Waste Description
12/2/67	1-5	270.0	High-Level TBP/n-D Tanks (12)*
10/01/67	10-1	135.0	Solidified-TBP/n-D Tank (1)*
10/01/67	10-2	135.0	Solidified-TBP/n-D Tank (1)*
7/15/68	SH-1	15.0	TBP/n-D Drums, etc.
7/15/68	SH-1	80.0	TBP/n-D Drums, etc.
7/15/68	SH-1	110.25	TBP/n-D Drums, etc.
7/15/68	SH-1	1080.0	TBP/n-D Drums, etc.
7/15/68	SH-1	60.0	TBP/n-D Drums, etc.
7/15/68	SH-1	8.0	TBP/n-D Drums, etc.
5/7/69	SH-5	540.0	TBP/n-D Drums (4)*
9/19 - 10/9/69	SH-10	945.0	TBP/n-D Tanks (6)*
11/07/69	SH-11	675.0	TBP/n-D Tanks (2)*
5/21/70	SH-13	405.0	TBP/n-D Absorbed (3)*
8/04/70	SH-14	270.0	TBP/n-D Tanks (2)*
3/27/72	SH-27	300.0	TBP/n-D-Process Building Waste (2)*
3/29/72	SH-28	300.0	TBP/n-D-Process Building Waste (2)*
4/03/72	SH-29	150.00	TBP/n-D in Vermiculite (1)*
5/10/85	WVDP-9	90.0	TBP/n-D
5/10/85	WVDP-9	90.0	TBP/n-D
5/10/85	WVDP-9	90.0	TBP/n-D
5/09/85	WVDP-9	90.0	TBP/n-D
9/25/87	WVDP-8	7.35	TBP/n-D
	Total	5,845.6	

* Number in parentheses indicates number of tanks containing TBP/n-D
TBP/n-D represents TBP/n-dodecane.

Table 3-1

Chemical Analyses Performed at NDA
Surface Soil Sampling Locations

Location	Depth	TCL VOAs	TCL SemiVOAs	TAL Metals	TCL Pest/PCBs
SS-14	0.5 feet		X	X	X
SS-15	0.5 feet		X	X	
SS-18	0.5 feet	X	X	X	
SS-20	0.5 feet	X	X	X	
SS-21	0.5 feet	X	X	X	

TCL - target compound list
VOAs - volatile organic analyses
TAL - target analyte list

Table 3-2

Chemical Analyses Performed at NDA
Borehole Sampling Locations

Location	Depth	TCL VOAs	TCL SemiVOAs	TAL Metals	TCL Pest./PCBs	TBP/ n-Dodecane
BH-39	00-02 feet	X		X		
	06-10 feet	X	X	X	X	
	18-20 feet	X	X	X	X	
BH-41	00-02 feet			X		
	06-08 feet			X		
	10-12 feet	X	X	X		
	17-19 feet	X	X	X		
BH-42	00-02 feet			X		
	03-05 feet			X		
	07-09 feet	X	X	X		X
	12-14 feet	X	X	X		X
	25-27 feet	X	X	X		X

TCL - target compound list
VOAs - volatile organic analyses
TAL - target analyte list

Table 3-3

Chemical Analyses Performed at NDA
Stream Sediment Sampling Locations

Location	TCL VOAs	TCL SemiVOAs	TAL Metals	TCL Pest./PCBs
ST-22			X	
ST-23			X	
ST-24			X	
ST-26	X	X	X	

TCL - target compound list
VOAs - volatile organic analyses
TAL - target analyte list

Table 3-4

Schedule of Groundwater Sampling and Analysis

Contamination Indicator Parameters (Originally sampled eight times a year; currently sampled four times a year)	pH[1] Conductivity[1] Total Organic Carbon (TOC)[2] Total Organic Halogens (TOX) Gross Alpha Gross Beta Tritium Gamma Isotopic Scan Appendix IX Volatile Organic Analysis (VOAs)	
Groundwater Quality Parameters (Analyzed twice a year)	Aluminum[3] Ammonia Bicarbonate/Carbonate Calcium Chloride Iron Magnesium Manganese Nitrate+Nitrite-N Phenols Phosphate[3] Potassium	Silica[3] Sodium Sulfate Sulfide[3]
Expanded Characterization Parameters for Project Monitoring Locations Only (Completed 4th Quarter 1993 and 2nd Quarter 1994)	<u>Schedule A (43 locations)</u> Target Compound List (TCL) Radioisotopic <u>Schedule B (6 locations)</u> Modified Appendix IX[4] (40 CFR Part 264) Radioisotopic <u>Schedule C (2 locations)</u> Modified Appendix IX[4] Radioisotopic Tributyl phosphate (TBP) N-dodecane <u>Schedule I (3 locations)</u> Radioisotopic only	

[1] Field measurement.
[2] Includes nonpurgeable organic carbon (NPOC) only.
[3] Analyses performed only once during 1993 because parameters were added to the schedule at mid-year.
[4] Does not include polychlorinated dibenzo-p-dioxins (PCDDs) or polychlorinated dibenzofurans (PCDFs).

Table 3-5

Hydraulic Properties and Groundwater Velocities
of the Principal Water-bearing Units at the NDA

Unit	Thickness (m)	Hydraulic Conductivity (cm/s)	Hydraulic Gradient	Flow Velocity cm/s (m/yr)
Weathered Lavery Till	2-3	2.0E-08 to 4.0E-05	0.02 (NNE)	4.2E-06 (1.3)
Unweathered Lavery Till	20-29	2.0E-08 to 6.0E-08	1.0 vertical	2.0E-07 (0.06)
Kent Recessional Sequence	10-23	5.5E-07 to 1.5E-06	0.023 (NE)	4.14E-07 (0.13)

Table 3-6

Summary of Positive Detections of Organic Compounds
in Groundwater from the Weathered Lavery Till
(Fourth-quarter 1993 and Second-quarter 1994 Expanded Groundwater Characterization)

Fourth-quarter 1993

Analysis	Location	Analyte	Concentration
VOC	909	Chlororiodomethane (SVOC TIC)	5.9 μg/L (est.)
	WNNDATR	1,4-dioxane	2.0 μg/L (est.)
SVOC		None detected	
Pesticides/PCBs		None detected	

Second-quarter 1994

	Location	Analyte	Concentration
VOC		None detected	
SVOC	WNNDATR	bis(2-ethylhexyl)phthalate	16 μg/L (est.)
Pesticides/PCBs		None detected	

VOC - Volatile organic compound
SVOC - Semivolatile organic compound
TIC - Tentatively identified compound

Table 3-7

Fourth-quarter 1993 TAL Metals Concentrations in Weathered Lavery Till Groundwater at the NDA (μg/L)

Analyte	1008C	908	906	907	WNNDATR	909	905
Aluminum	310	ND (<90)	322	ND (<200)	407	830	250
Antimony	ND (<3)	ND (<4)	NA	ND (<4)	ND(<3)	ND(<3)	ND(<4)
Arsenic	7	ND (<3)	NA	50	ND(<3)	9	4
Barium	216	ND (<30)	NA	48	90.7	120	ND(<40)
Beryllium	ND(<3)	ND(<3)	NA	ND(<3)	ND(<3)	ND(<3)	ND(<3)
Cadmium	ND(<0.2)	ND(<0.2)	NA	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Calcium	73,400	447,000	61,400	100,000	111,000	231,000	221,000
Chromium	ND(<10)	ND(<10)	NA	ND(<10)	ND(<10)	ND(<10)	ND(<10)
Cobalt	ND(<20)	ND(<20)	NA	ND(<20)	ND(<20)	ND(<20)	ND(<20)
Copper	ND(<10)	11	NA	ND (<10)	ND (<10)	13.8	ND(<10)
Cyanide	ND (<0.01)	ND(<0.01)	NA	ND(<0.01)	ND(<0.01)	ND(<0.01)	ND(<0.01)
Iron	263	205	400	49	315	10,700	2,210
Lead	5	ND(<2)	NA	ND(<2)	ND(<2)	4	ND(<2)
Magnesium	17,300	142,000	20,200	39,500	19,800	54,200	78,700
Manganese	159	176	22	34	5.50	6,040	569
Mercury	ND(<0.2)	ND(<0.2)	NA	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Nickel	ND(<30)	ND(<30)	NA	ND(<30)	ND(<30)	52.2	ND(<30)
Potassium	ND(<1000)	5,530	2,660	2,020	4,490	2,540	3,790
Selenium	ND(<3)	3	NA	ND(<3)	ND(<3)	ND(<3)	ND(<3)
Silver	ND (<0.5) (UJ)	ND (<0.5) (UJ)	NA	ND (<0.5) (UJ)	ND (<0.5) (UJ)	ND (<0.5) (UJ)	ND (<0.5) (UJ)
Sodium	13,600 (J)	21,300	23,700	10,600	12,200	8,640	12,600
Thallium	ND (<3)	ND (<4)	NA	ND (<3)	ND (<3)	ND (<3)	ND (<3)
Vanadium	ND <20)	ND <20)	NA	ND <20)	ND <20)	ND <20)	ND <20)
Zinc	ND(<10)	ND(<10)	NA	ND(<10)	ND(<10)	16.9	ND(<10)

NA - Not analyzed ND - Nondetected (J) - Estimated result (UJ) - Not detected, estimated detection limit

Table 3-8

Second-quarter 1994 TAL Metals Concentrations in Unweathered Lavery Till Groundwater at the NDA (μg/L)

Analyte	1008C	908	906	907	WNNDATR	909	905
Aluminum	ND (<90)	682	2700	ND (<90)	180	350	ND (<90)
Antimony	ND (<5)	ND (<6)	NA	ND (<6)	ND(<6)	ND(<6)	ND(<6)
Arsenic	5	ND (<3)	NA	ND(<3)	3	3	ND (<3)
Barium	228	21.4	NA	42.1	103	116	ND(<20)
Beryllium	ND(<3)	ND(<3)	NA	ND(<3)	ND(<3)	ND(<3)	ND(<3)
Cadmium	ND(<0.2)	ND(<0.2)	NA	ND(<0.2)	ND(<0.2)	0.4	ND(<0.2)
Calcium	75,300 (J)	480,000	65,600	97,500 (J)	136,000	210,000	243,000
Chromium	ND(<10)	10.8	NA	ND(<10)	ND(<10)	ND(<10)	ND(<10)
Cobalt	ND(<10)	ND(<10)	NA	ND(<10)	ND(<10)	11.6	ND(<10)
Copper	ND(<10)	15.6	NA	ND (<10)	ND (<10)	ND (<10)	ND(<10)
Cyanide	ND (<10,000) (UJ)	ND (<10,000)	NA	ND (<10,000)	ND (<10,000)	ND (<10,000)	ND (<10,000)
Iron	ND (<40)	1330	3900	95	92	702	1,720
Lead	ND (<2)	3	NA	ND(<2)	ND(<2)	ND (<2)	ND(<2)
Magnesium	17,200	171,000	23,500	36,700 (J)	36,200	44,800	80,600
Manganese	185	107	83	9	ND (<5)	1,970	520
Mercury	ND(<0.2)	ND(<0.2)	NA	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Nickel	ND(<30)	ND(<30)	NA	ND(<30)	ND(<30)	42.1	ND(<20)
Potassium	689	5,220	2,500	1,660	3,730	2,220	3,690
Selenium	ND(<3)	ND(<3)	NA	ND(<3)	ND(<3)	ND(<3)	ND(<3)
Silver	ND (<0.4)	ND (<0.4) (UJ)	NA	ND (<0.4) (UJ)	ND (<0.6) (UJ)	ND (<0.6) (UJ)	ND (<0.3) (UJ)
Sodium	13,800	26,700	22,300	9,490 (J)	53,300	13,600	16,900
Thallium	ND (<5)	ND (<3)	NA	ND (<3)	ND (<3)	ND (<3)	ND (<5)
Vanadium	ND <10)	ND (<10)	NA	ND (<10)	NA	NA	ND (<10)
Zinc	ND(<10)	17.8	NA	ND(<10)	ND(<10)	ND (<10)	ND(<10)

NA - Not analyzed ND - Nondetected (J) - Estimated result (UJ) - Not detected, estimated detection limit

Table 3-9

Fourth-quarter 1993 TAL Metals Concentrations in Unweathered Lavery Till Groundwater at the NDA (μg/L)

Analyte	1008C	904	910
Aluminum	310	4890	ND (<200)
Antimony	ND (<3)	ND (<4)	ND (<4)
Arsenic	7	9	ND (<3)
Barium	216	91.1	ND (<40)
Beryllium	ND(<3)	ND(<3)	ND(<3)
Cadmium	ND(<0.2)	ND(<0.2)	1.9
Calcium	73,400	102,000	205,000
Chromium	ND(<10)	ND(<10)	ND(<10)
Cobalt	ND(<20)	ND(<20)	ND(<20)
Copper	ND(<10)	19.3	ND (<10)
Cyanide	ND (<0.01)	ND(<10) (UJ)	ND(<10)
Iron	263	5320	279
Lead	5	12	ND(<2)
Magnesium	17,300	30,200	94,600
Manganese	159	278	340
Mercury	ND(<0.2)	ND(<0.2)	ND(<0.2)
Nickel	ND(<30)	ND(<30)	ND(<30)
Potassium	ND(<1000)	1,960	10,300
Selenium	ND(<3)	ND (<3)	ND(<3)
Silver	ND (<0.5) (UJ)	ND (<0.5) (UJ)	ND (<0.5) (UJ)
Sodium	13,600 (J)	23,400	43,700
Thallium	ND (<3)	ND (<3)	ND (<4)
Vanadium	ND <20)	ND <20)	ND <20)
Zinc	ND(<10)	19.4	10.6

ND - Nondetected (J) - Estimated result (UJ) - Not detected, estimated detection limit

Table 3-10

Second-quarter 1994 TAL Metals Concentrations in Unweathered Lavery Till Groundwater at the NDA (μg/L)

Analyte	1008C	904	910
Aluminum	ND (<90)	704	ND (<150)
Antimony	ND (<5)	ND (<6)	ND (<6)
Arsenic	5	ND (<3)	ND(<3)
Barium	228	56	ND (<20)
Beryllium	ND(<3)	ND (<3)	ND(<3)
Cadmium	ND(<0.2)	ND (<0.2)	1.7
Calcium	75,300 (J)	101,000	244,000
Chromium	ND(<10)	ND (<10)	ND(<10)
Cobalt	ND(<10)	ND (<10)	10
Copper	ND(<10)	ND (<10)	ND (<10)
Cyanide	ND (<10,000) (UJ)	ND (<10,000)	ND (<10,000)
Iron	ND (<40)	1440	127
Lead	ND (<2)	ND (<2)	ND(<2)
Magnesium	17,200	29,400	105,000
Manganese	185	47	84 (R)
Mercury	ND(<0.2)	ND (<0.2)	ND(<0.2)
Nickel	ND(<30)	ND (<20)	ND(<30)
Potassium	689	1,770	7,810
Selenium	ND(<3)	ND(<3)	ND(<3)
Silver	ND (<0.4)	ND (<0.3) (UJ)	ND (<0.6)
Sodium	13,800	22,200	50,700
Thallium	ND (<5)	ND (<5)	ND (<3)
Vanadium	ND <10)	ND (<10)	ND (<10)
Zinc	ND(<10)	30	ND(<10)

ND - Nondetected (J) - Estimated result (UJ) - Not detected, estimated detection limit

Table 3-11

Organic Compounds Detected in Surface Soil in the NDA

LOCATION	ANALYTE	RESULT	FLAG
SS-14	1,1,2,2 - tetrachloroethane - (V)	200.0	
SS-15	-	-	
SS-20	benzene - (V) carbon disulfide - (V) 1-iodo-octatetracontane - (S) trichloroethylene - (V)	4.3 4.8 400.0 2.4	(J)
SS-21	carbon disulfide - (V)	6.7	

(V) - Volatile analyte
(S) - Semivolatile analyte

(J) - Estimated result

Table 3-12

TAL Metals Concentrations in Soil from Surface Soil (SS) Locations at the NDA
(mg/kg)

Analyte	SS-18	SS-14	SS-15	SS-20	SS-21	Eastern USA Background	Subpart S	TAGM 4046
Aluminum	10,600	12,100 (J)	10,900	9,570	7,160	33,000	-	SB
Antimony	2.08	1.42 (J)	2.42 (J)	ND (<1.33)	ND (<1.39)	NA	30	SB
Arsenic	3.30	4.2	3.27 (J)	1.29	4.41	3-12	80	7.5 or SB
Barium	73.8	73.7	65.8	48.3	44.7	15 - 600	4000	300 or SB
Beryllium	0.497	0.511	0.382	0.201	0.268	0 - 1.75	0.2	0.16 or SB
Cadmium	ND(<0.213)	ND(<0.226)	ND(<0.249)	ND(<0.222)	ND(<0.232)	0.1 - 1.0	40	1.0 or SB
Calcium	3,620	53,300 (J)	2,420	5,480	8,960	130 -35,000	-	SB
Chromium	17.0	15.8	11.4	10.2	8.52	1.5 - 40	400	10 or SB
Cobalt	9.71	8.7	7.2	3.339	4.97	2.5 - 60	-	30 or SB
Copper	12.7	15.4	12.8	9.88	13.8	1 - 50	-	25 or SB
Iron	25,800	20,500 (J)	20,000	13,200	14,000	2,000-550,000	-	2,000 or SB
Lead	15.4	15.1	19.7	42.4 (J)	10.9 (J)	4 - 500	-	SB
Magnesium	3,370	14,400 (J)	2,370 (J)	3,120	3,670	100 - 5,000	-	SB
Manganese	421	418 (J)	467	206 (J)	324 (J)	50 - 5,000	-	SB
Mercury	0.0299	0.0224	0.054	0.025	ND(<0.0169)	0.001 - 0.2	20	0.1
Nickel	18.1	21.1	14.6	9.97	13	0.5 - 25	2000	13 or SB
Potassium	970	2,380	1,120	1,210	1,150	8,500-43,000	-	SB
Selenium	ND (<0.10)	ND (<0.112)	ND (<0.12)	ND (<0.107)	ND (<0.114)	0.1 - 3.9	-	2 or SB
Silver	ND (<0.319)	ND(<0.339)	ND (<0.373)	ND (<0.334)	ND (<0.348)	NA	200	SB
Sodium	54.3	133	38.1	51.2	47	6,000 - 8,000	-	SB
Thallium	ND (<0.10)	ND (<0.112)	ND (<0.12)	ND(<0.107)	ND (<0.114)	NA	-	SB
Vanadium	16.4	19.1	17.7	18.9	26.2	1- 300	-	150 or SB
Zinc	59.3	51.6 (J)	53.8	49.8	57.3	9 - 50	-	20 or SB

NA - Not analyzed ND - Nondetected SB - Site background (J) - Estimated result (UJ) - Not detected, estimated detection limit

Table 3-13

Radioisotopes Exceeding Background Concentrations at Surface Soil Sampling Locations (μCi/g)

Isotope	Background Value and (Uncertainty)	Sample Location	Loc. Value and (Uncertainty)
Co-60	3.0E-08 (N/A)[1]	SS-20	7.7E-07 (1.0E-07)
Cs-134	3.5E-08 (2.3E-08)[2]	SS-15	3.7E-08 (2.3E-08)
		SS-14	3.8E-08 (2.3E-08)
Cs-137	7.0E-07 (N/A)[1]	SS-20	6.8E-05 (7.0E-06)
		SS-15	4.7E-06 (5.0E-07)
Gross Alpha	1.5E-05 (N/A)[1]	SS-15	1.6E-05 (6.0E-06)
Gross Beta	5.0E-05 (N/A)[1]	SS-21	9.2E-05 (5.0E-06)
		SS-15	5.2E-05 (4.0E-06)
		SS-14	5.1E-05 (4.0E-06)
Ra-226	1.7E-06 (5.0E-07)[2]	SS-20	1.0E-05 (3.0E-06)
Sr-90	2.5E-07 (N/A)[1]	SS-20	7.7E-06 (3.0E-07)
		SS-15	3.3E-06 (2.0E-07)
		SS-21	4.8E-07 (7.0E-08)

N/A - None available

[1]Screening values from Table 4-2 from the Soils Characterization Environmental Information Document, WVDP-EIS-008.
[2]From background location SS-18.

Table 3-14

Organic Compounds Detected in Boreholes (BH) 41 and 42 at the NDA

LOCATION	DEPTH	ANALYTE	RESULT	FLAG
BH-41	(10-12')	carbon disulfide - (V)	18.0	(J)
		pentadecane - (S)	600.0	(J)
		tetradecane - (S)	300.0	(J)
	(17-19')	pentadecane	300.0	(J)
BH-42	(07-09')	carbon disulfide - (V)	1.6	(J)
	(12-14')	di-n-butyl phthalate - (S)	123.0	(J)
	(25-27')	di-n-butyl phthalate - (S)	350.5	(J)

(V) - Volatile analyte
(S) - Semivolatile analyte

(J) - Estimated result

Table 3-15

TAL Metals Concentrations Ranges in Soil from Boreholes (BH) at the NDA
(mg/kg)

Analyte	Site Background	BH-41	BH-42	Eastern USA Background	Subpart S	TAGM 4046
Aluminum	9,990 - 13,300	8,900 - 15,600	10,000 - 14,000	33,000	-	SB
Antimony	ND (<1.41)	ND - 2.23	ND - 2.31	NA	30	SB
Arsenic	5.73 - 8.9	4.1 - 7.53	2.79 - 3.59	3 - 12	80	7.5 or SB
Barium	67.4 - 144	68.6 - 114.0	69 - 120	15 - 600	4000	300 or SB
Beryllium	0.499 - 0.7	0.433 - 0.697	0.514 - 0.659	0 - 1.75	0.2	0.16 or SB
Cadmium	ND (<0.235)	ND - 0.317	ND - 0.548	0.1 - 1.0	40	1.0 or SB
Calcium	1,320 - 36,500	29,300 - 31,300	20,900 - 50,500	130 - 35,000	-	SB
Chromium	13.1 - 20.5	12.4 - 20.8	13.4 - 19.0	1.5 - 40	400	10 or SB
Cobalt	9.58 - 14.3	9.73 - 13.4	9.32 - 12.7	2.5 - 60	-	30 or SB
Copper	16.6 - 27.1	20.6 -21.9	18.7 - 23.2	1 - 50	-	25 or SB
Iron	21,600 - 29,400	20,300 - 28,300	20,500 - 26,600	2,000 - 550,000	-	2,000 or SB
Lead	12.4 - 16.6	11.2 - 15.3	8.66 - 16.4	4 - 61 (rural) 200 - 500 (suburban)	-	SB
Magnesium	3,170 - 11,100	8,890 - 11,500	8,220 -23,800	100 - 5,000	-	SB
Manganese	334 - 611	372 - 471	318 - 591	50 - 5,000	-	SB
Mercury	ND - 0.0248	ND (<0.0185)	0.0245 - 0.0412	0.001 - 0.2	20	0.1
Nickel	21.5 - 35.8	23.5 - 33.0	22.1 - 29.6	0.5 - 25	2000	13 or SB
Potassium	942 - 2,070	1,370 - 3,260	1,630 - 2,690	8,500 - 43,000	-	SB
Selenium	ND (<0.112)	ND (<0.121)	ND - 0.885	0.1 - 3.9	-	2 or SB
Silver	ND (<0.352)	ND (<0.371)	ND (<0.356)	NA	200	SB
Sodium	58.8 - 213	77.5 - 147.0	100 - 153	6,000 - 8,000	-	SB
Thallium	ND (<0.112)	ND (<0.121)	ND (<0.119)	NA	-	SB
Vanadium	13.8 - 27.5	13.7 - 23.6	13.4 - 19.9	1 - 300	-	150 or SB
Zinc	58.8 - 181	58.4 - 68.6	46.1 - 67.1	9 - 50	-	20 or SB

NA - Not analyzed ND - nondetected SB - site background

Table 3-16

Radioisotopes Exceeding Background Concentrations at Borehole Sampling Locations (μCi/g)

Isotope	Background Value and (Uncertainty)	Sample Location and (Depth)	Loc. Value and (Uncertainty)
Am-241	2.0E-08 (N/A)[1]	BH-42 (00-02')	1.5E-07 (5.0E-08)
Co-60	3.0E-08 (N/A)[1]	BH-42 (00-02')	5.3E-08 (3.0E-08)
Cs-134	4.5E-08 (2.3E-08)[2]	BH-41 (08-10')	6.5E-08 (2.9E-08)
		BH-42 (12-14')	5.3E-08 (2.4E-08)
		BH-41 (06-08')	5.3E-08 (2.6E-08)
		BH-41 (10-12')	5.1E-08 (2.2E-08)
		BH-41 (17-19')	5.1E-08 (2.2E-08)
		BH-42 (07-09')	4.9E-08 (2.4E-08)
		BH-42 (00-02')	4.8E-08 (2.8E-08)
Cs-137	7.0E-07 (N/A)[1]	BH-42 (00-02')	4.1E-06 (4.0E-07)
Gross Alpha	1.5E-05 (N/A)[1]	BH-41 (08-10')	1.9E-05 (7.0E-06)
		BH-42 (00-02')	1.6E-05 (6.0E-06)
Gross Beta	5.0E-05 (N/A)[1]	BH-41 (10-12')	1.1E-04 (1.0E-05)
		BH-41 (08-10')	7.3E-05 (4.0E-06)
		BH-41 (00-02')	5.8E-05 (4.0E-06)
		BH-41 (17-19')	5.6E-05 (4.0E-06)
		BH-42 (25-27')	5.2E-05 (4.0E-06)
		BH-42 (03-05')	5.1E-05 (4.0E-06)
Pu-238	2.0E-08 (N/A)[1]	BH-42 (00-02')	8.5E-08 (3.6E-08)
Pu-239/240	4.0E-08 (N/A)[1]	BH-42 (00-02')	9.2E-08 (3.8E-08)
Sr-90	2.5E-07 (N/A)[1]	BH-42 (00-02')	8.6E-07 (1.0E-07)
U-233/34	1.9E-07 (4.0E-08)[2]	BH-42 (25-27')	3.6E-07 (6.0E-08)
		BH-41 (06-08')	2.3E-07 (4.0E-08)
		BH-42 (12-14')	2.2E-07 (5.0E-08)
		BH-42 (03-05')	2.0E-07 (4.0E-08)

N/A - None available
[1]Screening values from Table 4-2 from the Soils Characterization Environmental Information Document, WVDP-EIS-008
[2]From background location SS-18.

Table 3-17

TAL Metals Concentrations from Stream Sampling (ST) Locations at the NDA (mg/kg)

Analyte	ST-26	ST-22	ST-23	ST-24	Eastern USA Background	Subpart S	TAGM 4046
Aluminum	11,600	17,500 (J)	9,510	7,660	33,000	-	SB
Antimony	ND (<1.76)	ND (<2.86)	ND (<2.2)	ND (<1.69)	NA	30	SB
Arsenic	15.5 (R)	9.96	7.5 (J)	6.48 (R)	3-12	80	7.5 or SB
Barium	72.1	146	68.5	83.3	15-600	4000	300 or SB
Beryllium	0.581	0.807	0.42	0.386	0-1.75	0.2	0.16 or SB
Cadmium	ND (<0.293)	ND (<0.476) (J)	ND (<0.36)	ND(<0.282)	0.1-1.0	40	1.0 or SB
Calcium	2,210 (J)	9,310	12,900	19,900 (J)	130-35,000	-	SB
Chromium	15.6	23.6	13	12.1	1.5-40	400	10 or SB
Cobalt	10.4	12.2	6.7	7.41	2.5-60	-	30 or SB
Copper	14.3	24.3	22.5	13.1	1-50	-	25 or SB
Iron	19,300 (J)	31,400 (J)	18,400	16,400 (J)	2,000-550,000	-	2,000 or SB
Lead	22.2	20	15.9 (J)	10.9	4-500	-	SB
Magnesium	2,930 (J)	6,580 (J)	3,600 (J)	7,250 (J)	100-5,000	-	SB
Manganese	393 (J)	1,410 (J)	635	670 (J)	50-5,000	-	SB
Mercury	ND (<0.110)	ND (<0.184)	ND (<0.11)	ND (<0.11)	0.001-0.2	20	0.1
Nickel	18	27.3	15.1	15.4	0.5-25	2000	13 or SB
Potassium	1,700	3,260	1,090	1,220	8,500-43,000	-	SB
Selenium	0.155	ND (<0.234)	ND (<0.18)	ND (<0.141)	0.1-3.9	-	2 or SB
Silver	ND (<0.439) (J)	ND (<0.714)	ND(<0.54) (UJ)	ND(<0.423) (UJ)	NA	200	SB
Sodium	149 (J)	166 (J)	122	82.6	6,000-8,000	-	SB
Thallium	ND (<0.142)	ND (<0.234)	ND(<0.18) (UJ)	ND (<0.151)	NA	-	SB
Vanadium	18.1	27.2	16.3	11.8	1-300	-	150 or SB
Zinc	345 (J)	236 (J)	97.9 (J)	105 (J)	9-50	-	20 or SB

NA - Not analyzed ND - nondetected SB - site background (J) - Estimated result (UJ) - Not detected, estimated detection limit (R) - Unreliable

Table 3-18

Radioisotopes Exceeding Background Concentrations at Stream Sampling Locations (μCi/g)

Isotope	Background Value and (Uncertainty)	Sample Location	Loc. Value and (Uncertainty)
Am-241	2.0E-08 (N/A)[1]	ST-22	1.4E-07 (4.0E-08)
		ST-23	4.1E-08 (1.9E-08)
Cs-134	3.8E-08 (2.6E-08)[2]	ST-23	6.7E-08 (2.8E-08)
		ST-22	4.0E-08 (2.9E-08)
		ST-24	4.0E-08 (2.4E-08)
Cs-137	7.0E-07 (N/A)[1]	ST-22	4.3E-06 (4.0E-07)
		ST-23	9.0E-07 (9.0E-08)
Gross Alpha	1.5E-05 (N/A)[1]	ST-23	2.2E-05 (7.0E-06)
Gross Beta	5.0E-05 (N/A)[1]	ST-22	6.4E-05 (4.0E-06)
		ST-23	5.7E-05 (4.0E-06)
Pu-238	2.0E-08 (N/A)[1]	ST-23	8.6E-08 (3.5E-08)
		ST-22	6.5E-08 (2.7E-08)
Sr-90	2.5E-07 (N/A)[1]	ST-23	3.3E-06 (2.0E-07)
U-233/234	1.6E-07 (3.0E-08)[2]	ST-22	2.2E-07 (6.0E-08)
		ST-23	2.1E-07 (4.0E-08)
U-235	6.3E-09 (7.0E-09)[2]	ST-23	9.9E-09 (9.7E-09)
U-238	1.5E-07 (N/A)[1]	ST-23	1.7E-07 (4.0E-08)

N/A - None Available

[1]Screening values from Table 4-2 from the Soils Characterization Environmental Information Document, WVDP-EIS-008.

[2]From background location SS-18.

<2>

Table 4-1

Summary of Radioactively Contaminated Laboratory Chemicals (Hazardous Constituents[1]) Managed During the 1982-83 Analytical Laboratory Clean-Up Program[2]

CONTAINER LABELING INFORMATION	QUANTITY[3]
Antimony Trichloride (antimony cmpnds.,N.O.S.)	0.12 L
As_2O_2 (arsenic cmpnds., N.O.S.)	5 g
Arsenious (arsenic cmpnds., N.O.S.)	0.20 L
10% Barium Chloride (barium cmpnds.,N.O.S.)	0.25 L
0.04% Barium Diphenyl in Sulfonate (barium cmpnds.,N.O.S.)	0.075 L
H_2SO_4,$BaSO_4$ (barium cmpnds.,N.O.S.)	0.8 L
Benzene	2.98 L
Beryllium Chloride	0.12 L
1-Butanol	1.42 L
Cadmium Std. 1 ug/ml	0.25 L
Carbon Tetrachloride	evaporated
Chloroform	3.79 L
Chloroform in 20% Ethanol	0.02 L
Dithizone in Chloroform ($CHCl_3$)	0.5 L
Chlorophenol Red (chlorinated phenols, N.O.S.)	0.47 L
Chromium Chloride (chromium cmpnds., N.O.S.)	0.12 L
Dist. $Cr_2(OH_2)_5OH$ (chromium cmpnds., N.O.S.)	0.03 L
Sulfuric Dichromate Cleaning Solution (chromium cmpnds., N.O.S.)	0.50 L
Chromic Acid (chromium cmpnds., N.O.S.)	0.20 L

1 May meet the definition of a RCRA hazardous constituent, as defined in 6NYCRR Subpart 371 Appendix 23 or identified in 6NYCRR Subpart 371.4, based on container labeling information.

2 This information was excerpted from laboratory inventory lists attached to correspondence FB:83:0024 and FB:83:0033.

3 Summation of one or more containers with same labeling information.

PC2 ▷ Table 4-1 *(continued)*

Summary of Radioactively Contaminated Laboratory Chemicals (Hazardous Constituents[1]) Managed During the 1982-83 Analytical Laboratory Clean-Up Program[2]

CONTAINER LABELING INFORMATION	QUANTITY[3]
$Na_2Cr_2O_7$ (chromium cmpnds., N.O.S.)	1.5 L
Cr-Sl	0.10 L
Cr 50 mg/L	1 L
Cyclohexane	3.19 L
Dimethyl Sulfate	0.01 L
1,4 Dioxane	1.02 L
Ethyl Acetate	9.46 L
Ethylene Glycol Monomethyl Ether	24.61 L
Formic Acid	2.84 L
Hydrazine	0.47 L
Hydrofluoric Acid - 48%	0.30 L
Hydrofluoric acid	3.3 L
5N Hydrofluoric acid	0.10 L
18N H2SO4, 5N HF	0.10 L
Ta in HF	0.15 L
Isobutanol	0.02 L
Isobutyl Alcohol	1.89 L
Lead Nitrate (lead cmpnds., N.O.S.)	0.12 L
Lead	113 g
Mercury Liquid	0.60 L (~18 lbs.)
Mercury Solutions (0.01 ppm - 100 ppb)	0.40 L
Mercury	0.01 L
Mercury	0.06 L
Mercuric Chloride (mercury cmpnds., N.O.S.)	0.10 L
Mercuric Oxide (mercury cmpnds., N.O.S.)	28 g

1 May meet the definition of a RCRA hazardous constituent, as defined in 6NYCRR Subpart 371 Appendix 23 or identified in 6NYCRR Subpart 371.4, based on container labeling information.

2 This information was excerpted from laboratory inventory lists attached to correspondence FB:83:0024 and FB:83:0033.

3 Summation of one or more containers with same labeling information.

[1] PC2 >

Table 4-1 *(continued)*

Summary of Radioactively Contaminated Laboratory Chemicals (Hazardous Constituents[1]) Managed During the 1982-83 Analytical Laboratory Clean-Up Program[2]

CONTAINER LABELING INFORMATION	QUANTITY[3]
Mercuric Nitrate (mercury cmpnds., N.O.S.)	113 g
Mercuric Nitrate - 0.2 M (mercury cmpnds., N.O.S.)	0.075 L
Mercuric Nitrate, HNO_3,$NaNO_2$ (mercury cmpnds., N.O.S.)	0.10 L
Miscellaneous Metals:	
Fe,Cr,Ni,Mn Std. (Cr and Ni cmpnds.,N.O.S.)	1.32 L
Water Std. - Al,As,Cd,Cr, Fe,Pb,Ni,Ti,Zn (As,Cd,Cr,Ni,Pb cmpnds.,N.O.S.)	0.47 L
Cu,Al,Na,Sn,Cr,Si,Mg,As (Cr and As cmpnds., N.O.S.)	0.09 L
Mn,Cd,Mo 50 ug/L (Cd cmpnds., N.O.S.)	0.50 L
Cd,Eu,Sm (Cd cmpnds., N.O.S.)	1 L
Std. - Na,K,Fe,Cr,Ni,Mo,Al (Cr and Ni cmpnds., N.O.S.)	3.6 L
Cr 0.2ppm,Cu 0.01ppm,Pb 0.2ppm,Ni 0.4ppm,Cd 0.17ppm,Ba 0.09ppm,Zn 2.5 ppm,Mn 0.04ppm (Cr,Pb,Ni,Cd,Ba Cmpnds,N.O.S.)	0.45 L
Heavy Metals Std. - Cr,Ni,Cd, Ba,Mn,Fe,Cu,Pb,Zn (Cr,Ni,Cd, Ba,Pb cmpnds., N.O.S.)	0.50 L
Methanol	9.96 L
Methyl Iodide	-
Methyl Isobutyl Ketone	10.61 L
Methylene Chloride	3.79 L
Model PT-1 Pretreatment Kit	0.15 L
Naphthalene Crystals	2699 g
1-Napthylamine	0.15 L

1 May meet the definition of a RCRA hazardous constituent, as defined in 6NYCRR Subpart 371 Appendix 23 or identified in 6NYCRR Subpart 371.4, based on container labeling information.

2 This information was excerpted from laboratory inventory lists attached to correspondence FB:83:0024 and FB:83:0033.

3 Summation of one or more containers with same labeling information.

PC2>

Table 4-1 *(continued)*

Summary of Radioactively Contaminated Laboratory Chemicals (Hazardous Constituents[1]) Managed During the 1982-83 Analytical Laboratory Clean-Up Program[2]

CONTAINER LABELING INFORMATION	QUANTITY[3]
Nickel Chloride	0.12 L
Nickel Std. (nickel cmpnds., N.O.S.)	0.31 L
Nitrobenzene	0.95 L
Noble Metals Kit	0.06 L
Phenol (2 entries) 2.6	0.15 L
Phenol (liquid)	0.47 L
Potassium Dichromate Solution (chromium cmpnds., N.O.S.)	31.0 L
Pyridine	2.84 L
Silver Nitrates (silver cmpnds., N.O.S.)	2.62 L
0.025 N AgNO[Cl-] (silver cmpnds., N.O.S.)	0.05L
Silver Brazing Flux (silver cmpnds., N.O.S.)	340 g
Sodium Hydroxide-KCN	0.40 L
Sulfuric Acid, K_2SO_4,$HgSO_4$ [NH_3/N] (mercury cmpnds., N.O.S.)	0.20 L
Toluene	0.95 L
o-Toluidine	1.27 L
Xylene	17.33 L
Xylene (50%), TBP (5%), Kerosene (45%)	1 L
Total Liquids	156.65 L
Total Solids	3,298 g

1 May meet the definition of a RCRA hazardous constituent, as defined in 6NYCRR Subpart 371 Appendix 23 or identified in 6NYCRR Subpart 371.4, based on container labeling information.

2 This information was excerpted from laboratory inventory lists attached to correspondence FB:83:0024 and FB:83:0033.

3 Summation of one or more containers with same labeling information.

Table 5-1

Weathered Lavery Till Water Levels Across the NDA and the Interceptor Trench

North - South NDA Line
May 9, 1995

Location	Water Level Elevation
909	1360.44 feet
MH-4*	1357.2 feet
NDA-WP-B	1363.87 feet
NDA-WP-C	1374.31 feet
86-I-8	1381.0 feet

* - Drain Invert Elevation 1358.61 feet

East - West NDA Line
March 13, 1995

Location	Water Level Elevation
1109A	1365.73 feet
TRENCH	1365.5 feet
B-88-7	1388.05 feet

Table 5-2

NDA Groundwater Monitoring Program (SSWMU #9)

Monitoring Well/Locat.	Well Depth	Unit Monitored	Screened Interval	Hydraulic Position	Parameters	Frequency	Comments
901	136	KR	121-136	U	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years.
902	128	KR	118-128	U	I, M	I - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
903	133	KR	118-133	D	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
906	10	WT	5-10	D	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years.
908	21	WT	6-21	U	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
909	23	WT	8-23	D	I, M, E, R	I - 2/yr M - 3/yr E - 1/yr R - 1/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years • Annual full Appendix 33 characterization. • Full radioisotopic annually.
910	30	UT	25-30	D	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
1005	19	WT	9-19	C[1]	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
1006	20	WT	10-20	C[1]	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
1008C	18	WT	8-18	U	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
1109A	16	WT	6-16	D	I	I - 2/yr	
8610	114	KR	97-112	D	I	I - 2/yr	
8611	120	KR	104-118.5	D	I, M	I - 2/yr M - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years
NDATR	15	WT	N/A	D	I, M, E, R	I - 4/yr E - 4/yr R - 2/yr	• Level 2 RCRA metals (M) 2 times a year for 2 years • Full Appendix 33 characterization quarterly. • Full radioisotopic annually.

* In instances of full Title 6NYCRR Appendix analysis, redundancy with routine monitoring will be evaluated.

Proposed Parameter Sampling and Frequency

I- Indicator Parameters (pH, specific conductance, gross alpha, gross beta, and tritium) semiannually
M- RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, antimony, beryllium, and nickel) semiannually for two years
E- Full Appendix 33 analysis, i.e., VOCs, SVOCs and Metals.
R- Full isotopic analysis (Sr-90, Tc-99, C-14, I-129, Cs-137, U-isotopic, Total U, Ra-226, Ra-228)

Unit Abbreviations: S&G - Sand & Gravel; WT - Weathered Lavery Till; UT - Unweathered Lavery Till; KR - Kent Recessional Sequence.

DLK:94:020:NDAWVDP.DWG

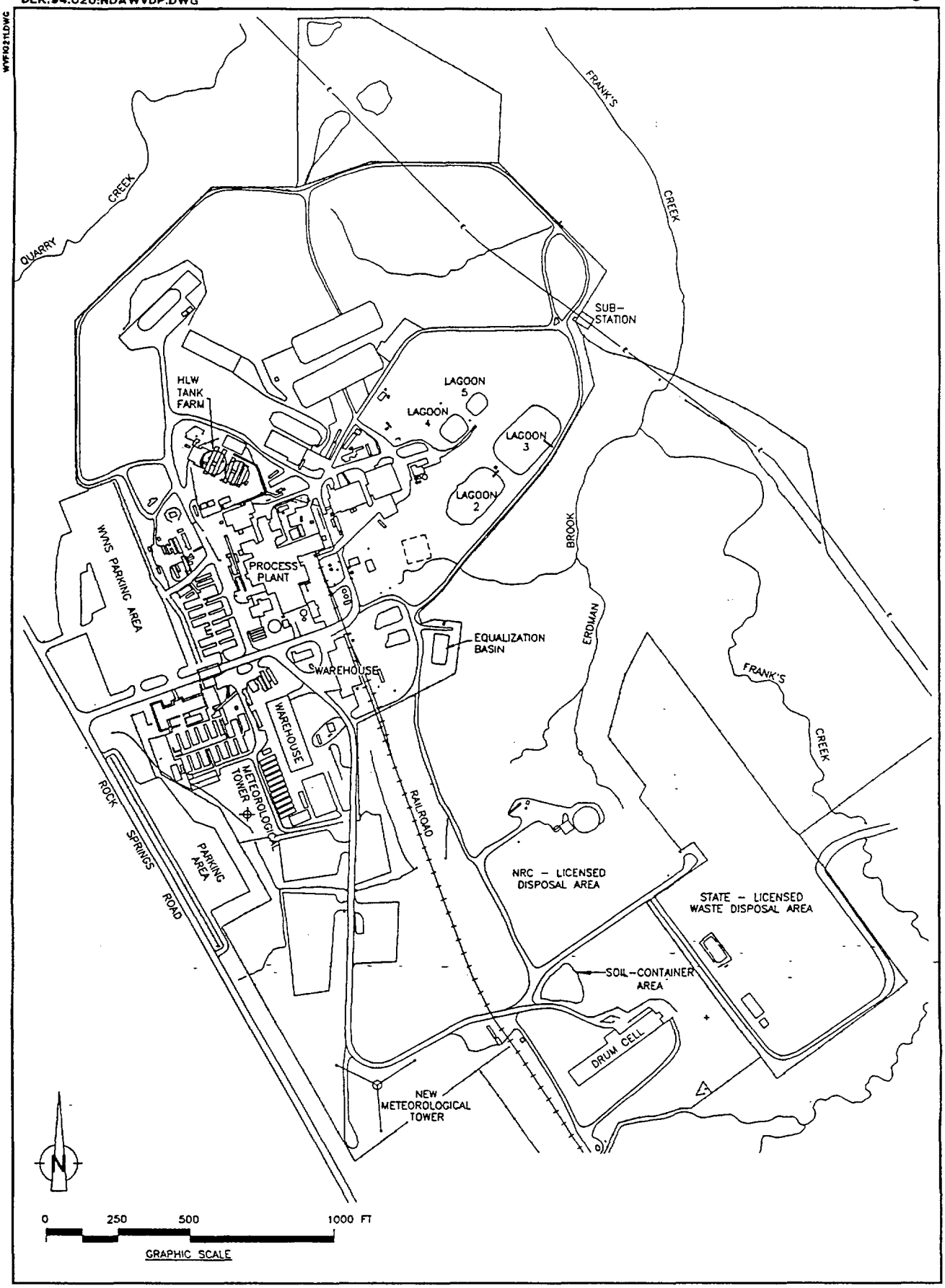


Figure 1-1. Location of the NDA at the West Valley Demonstration Project

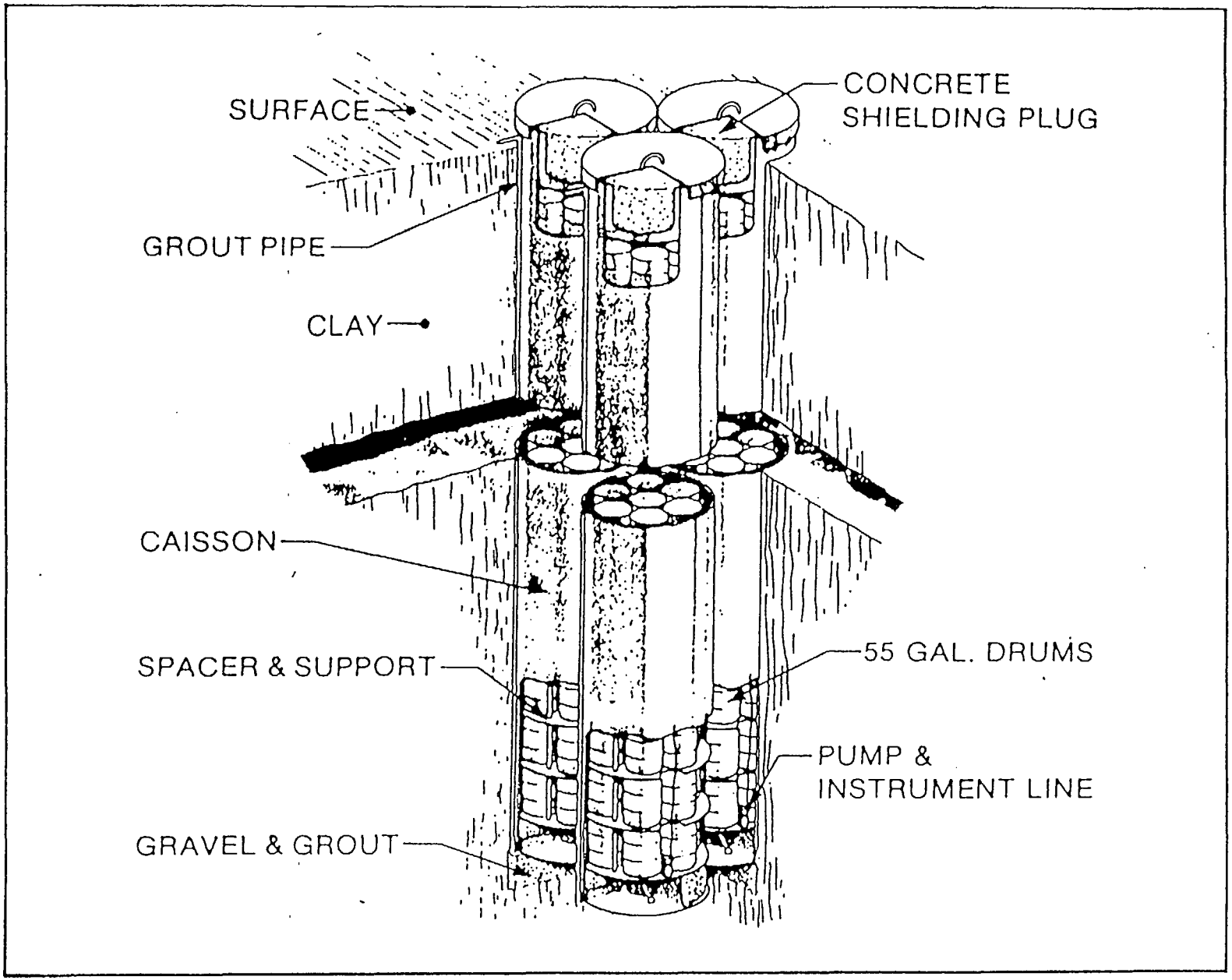


Figure 2-1. Conceptual Drawing of Caissons

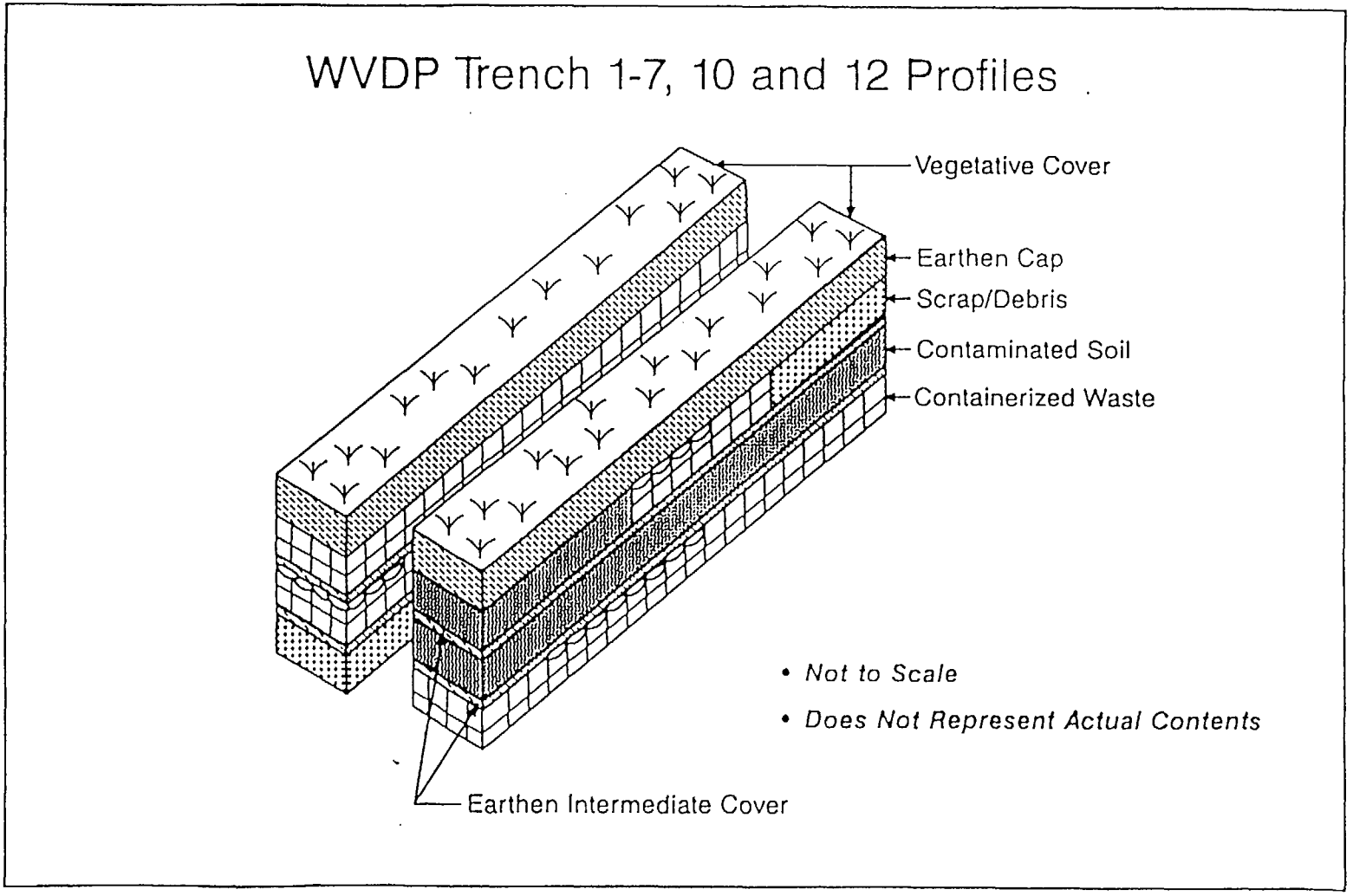


Figure 2-2. Conceptual Drawing of Trenches 1-7, 10, and 12

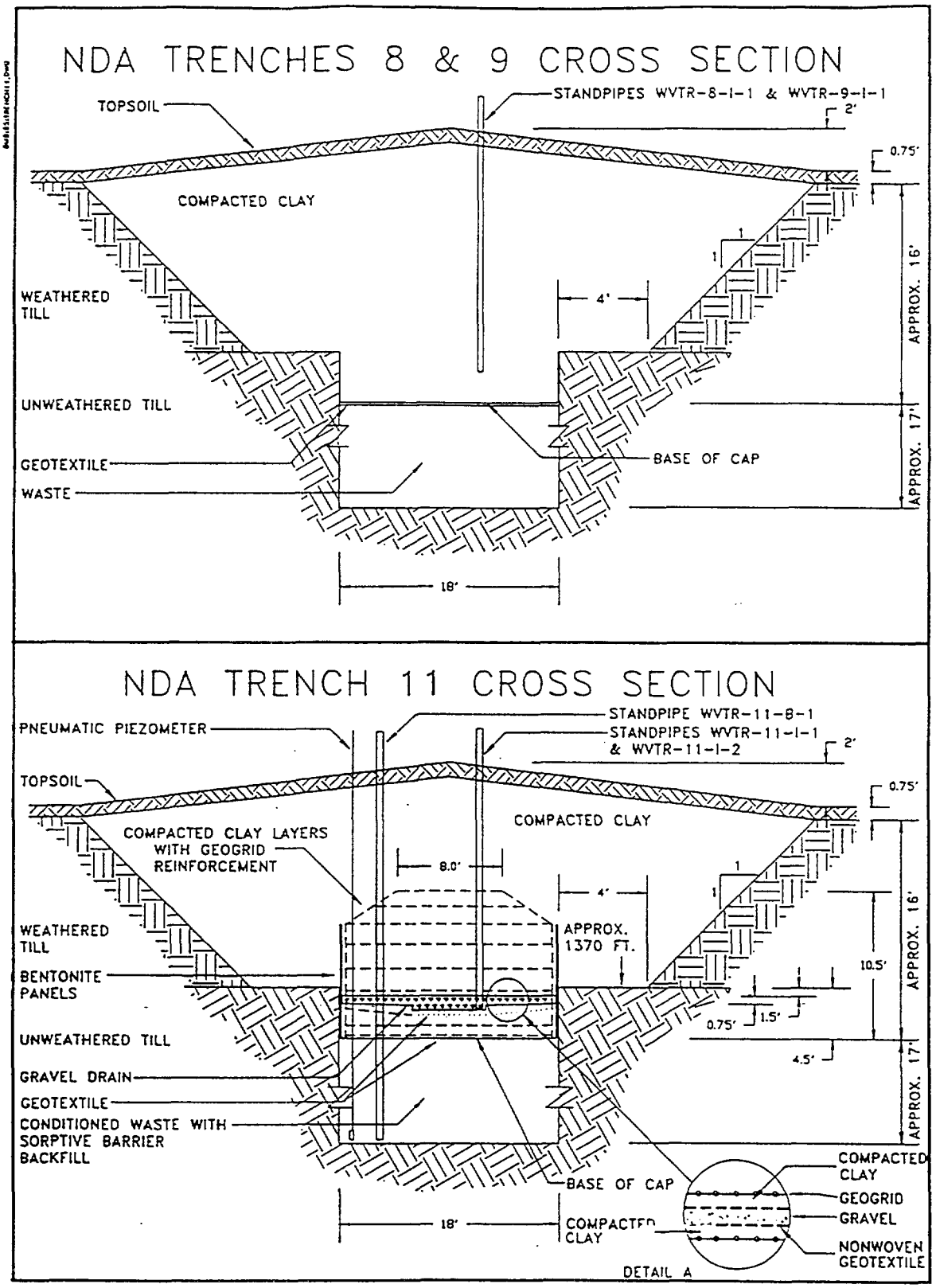
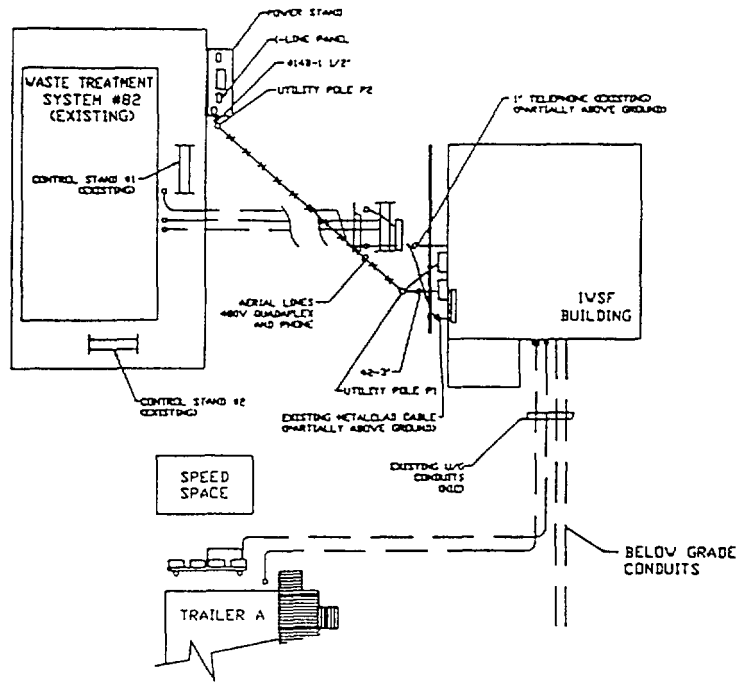
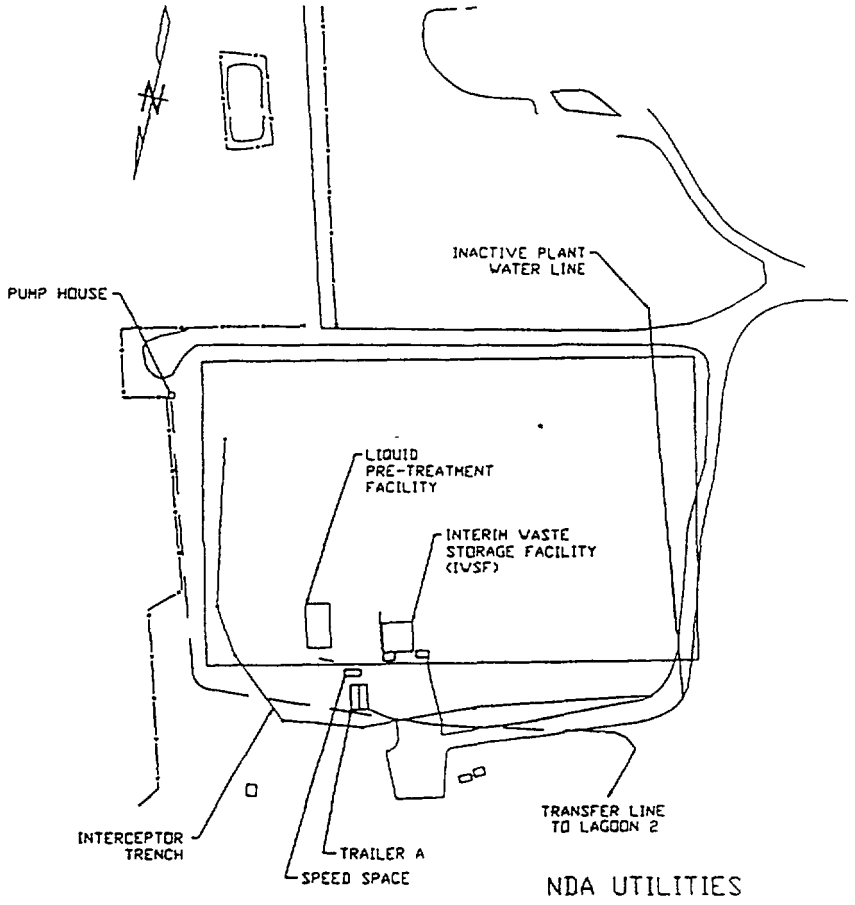


Figure 2-3. Conceptual Drawing of Trenches 8, 9, and 11.



NDA TREATMENT STRUCTURE ELECTRICAL PLAN



NDA UTILITIES

Figure 2-4

NDA Utility Map

DLK:94:020:NDABHETC.DWG

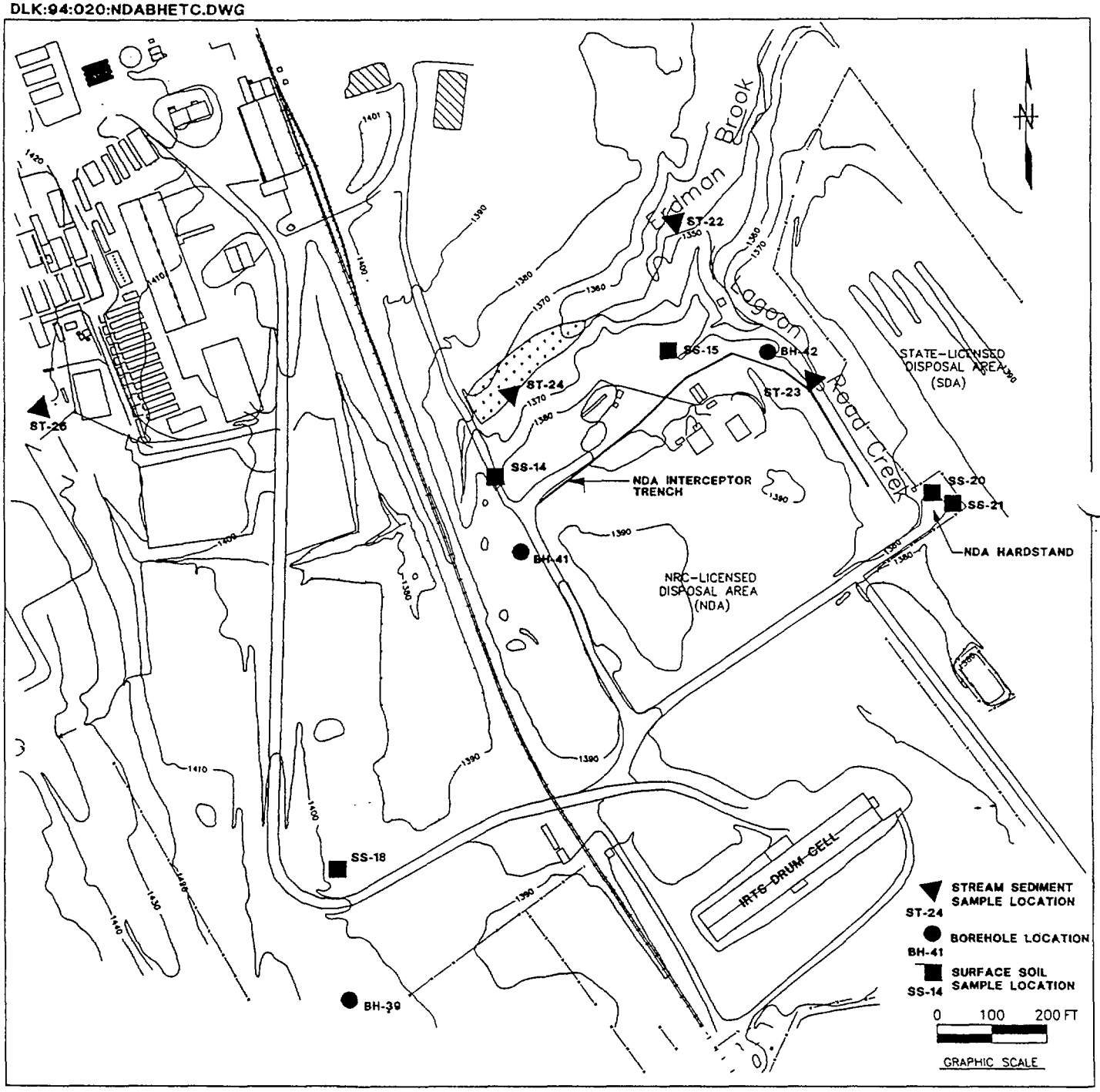


Figure 3-1. Borehole, Surface Soil, and Sediment Sampling Locations at the NDA

DLK:94:020:NDASOPT.DWG

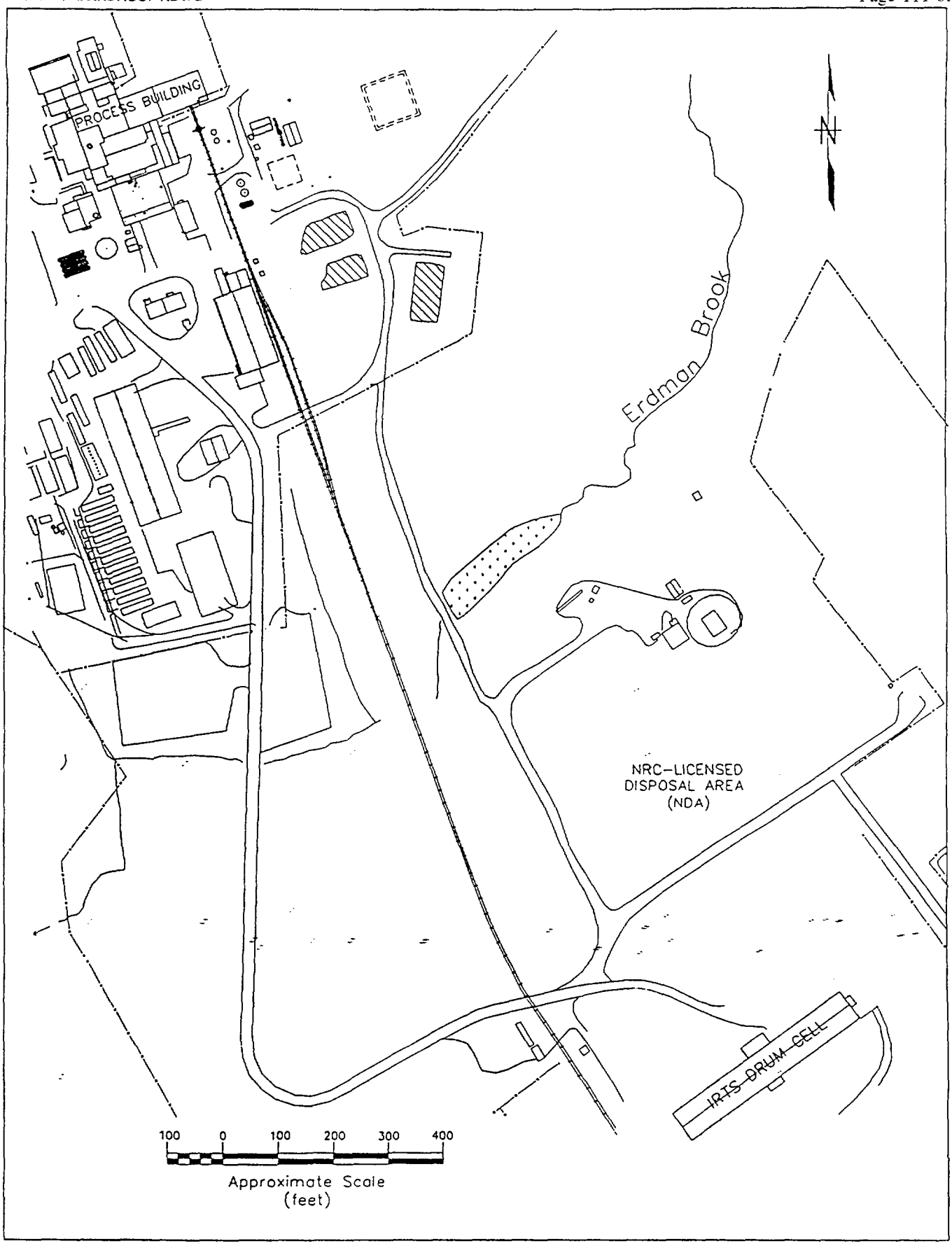


Figure 3-2. Location of the NDA in the South Plateau

DLK:94:020:NDAWTW.DWG

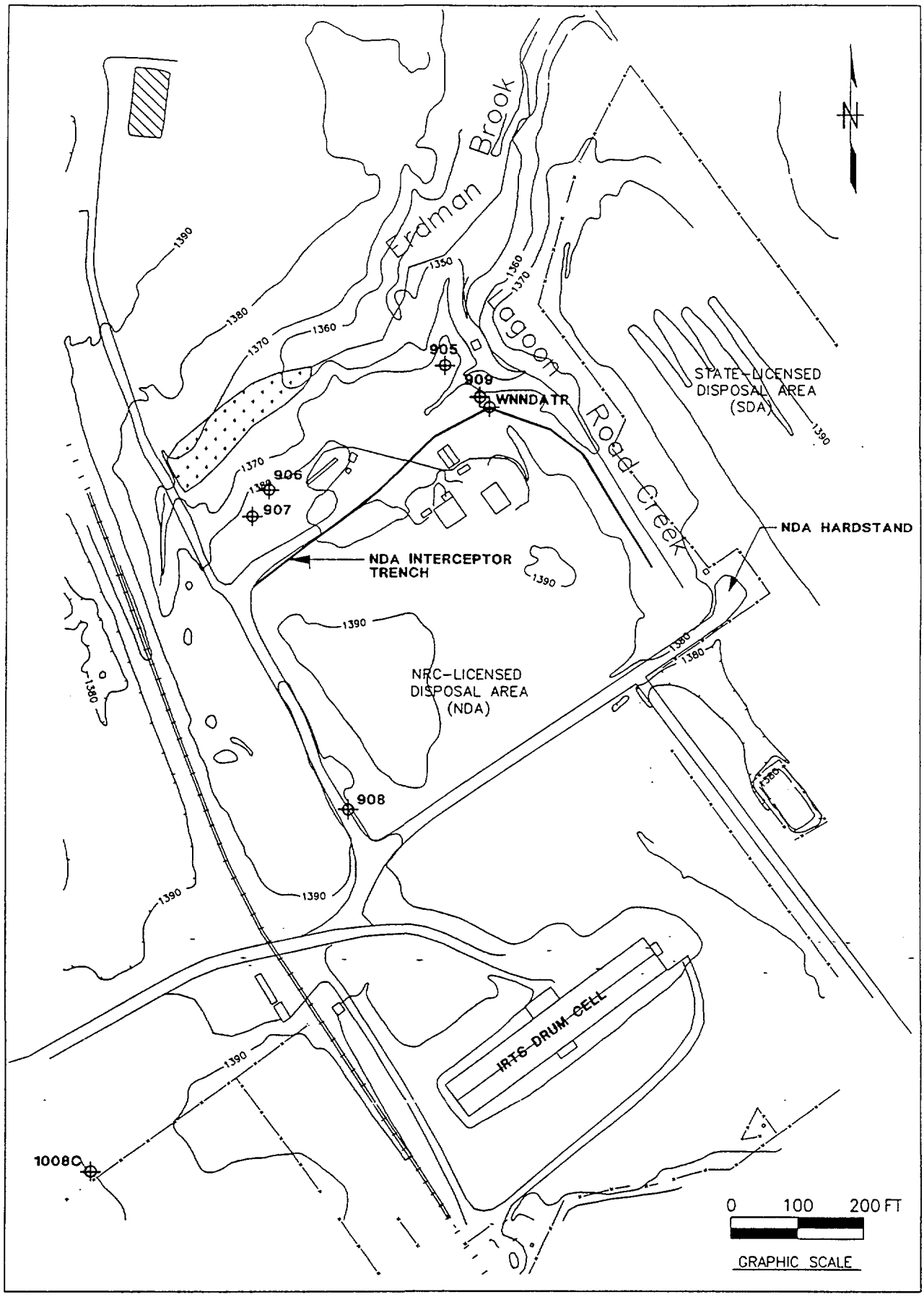
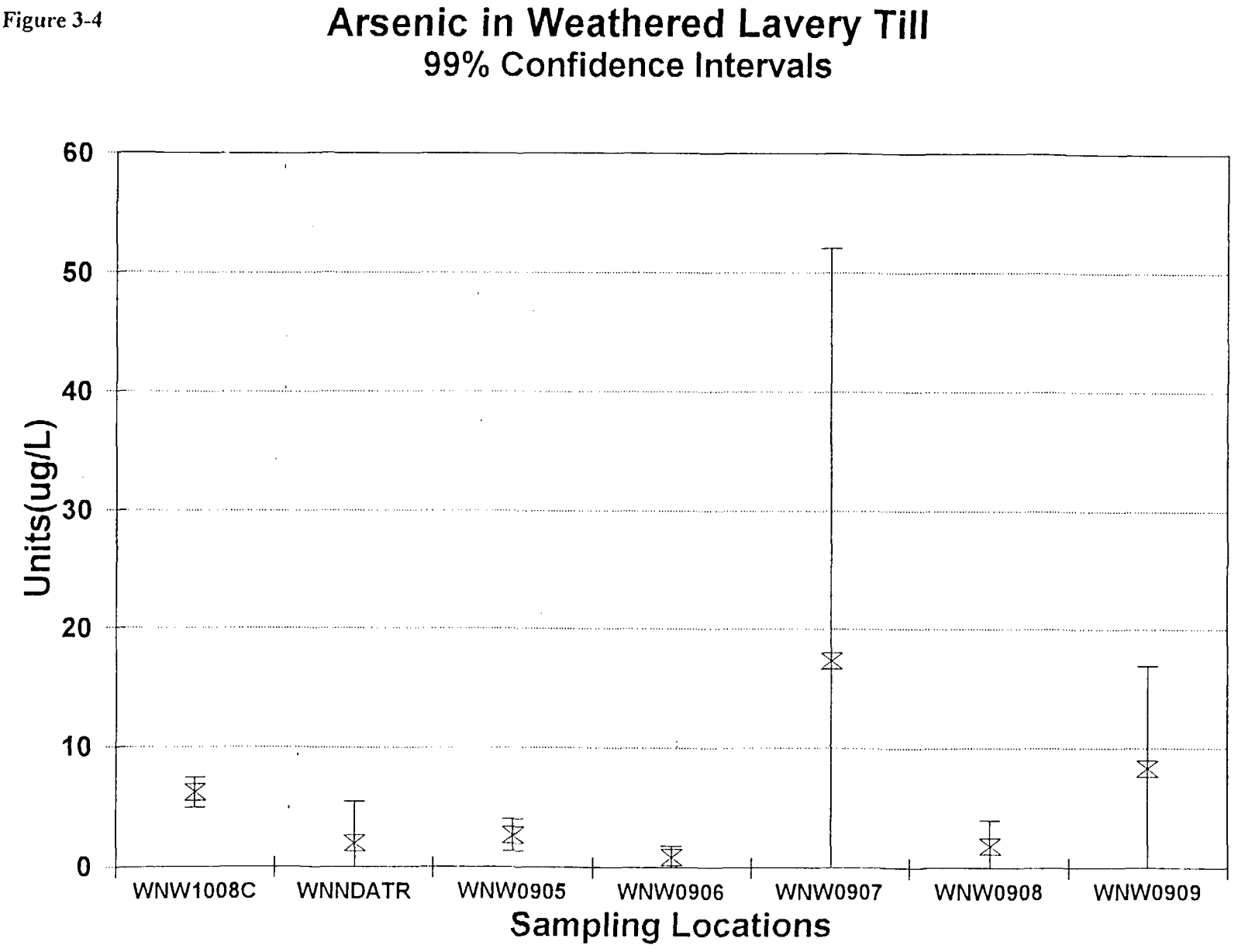


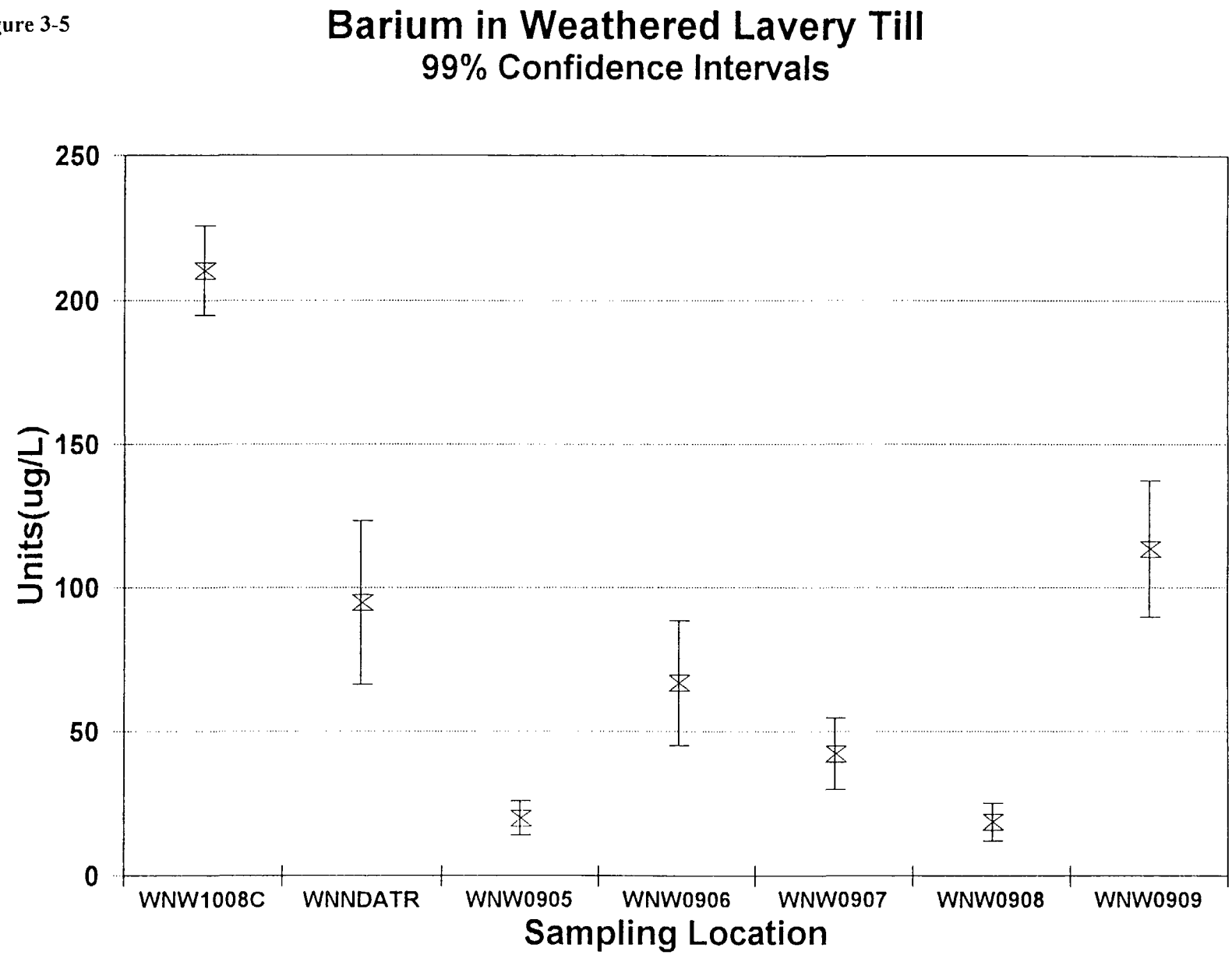
Figure 3-3. Weathered Lavery Till Groundwater Monitoring Wells at the NDA

Figure 3-4



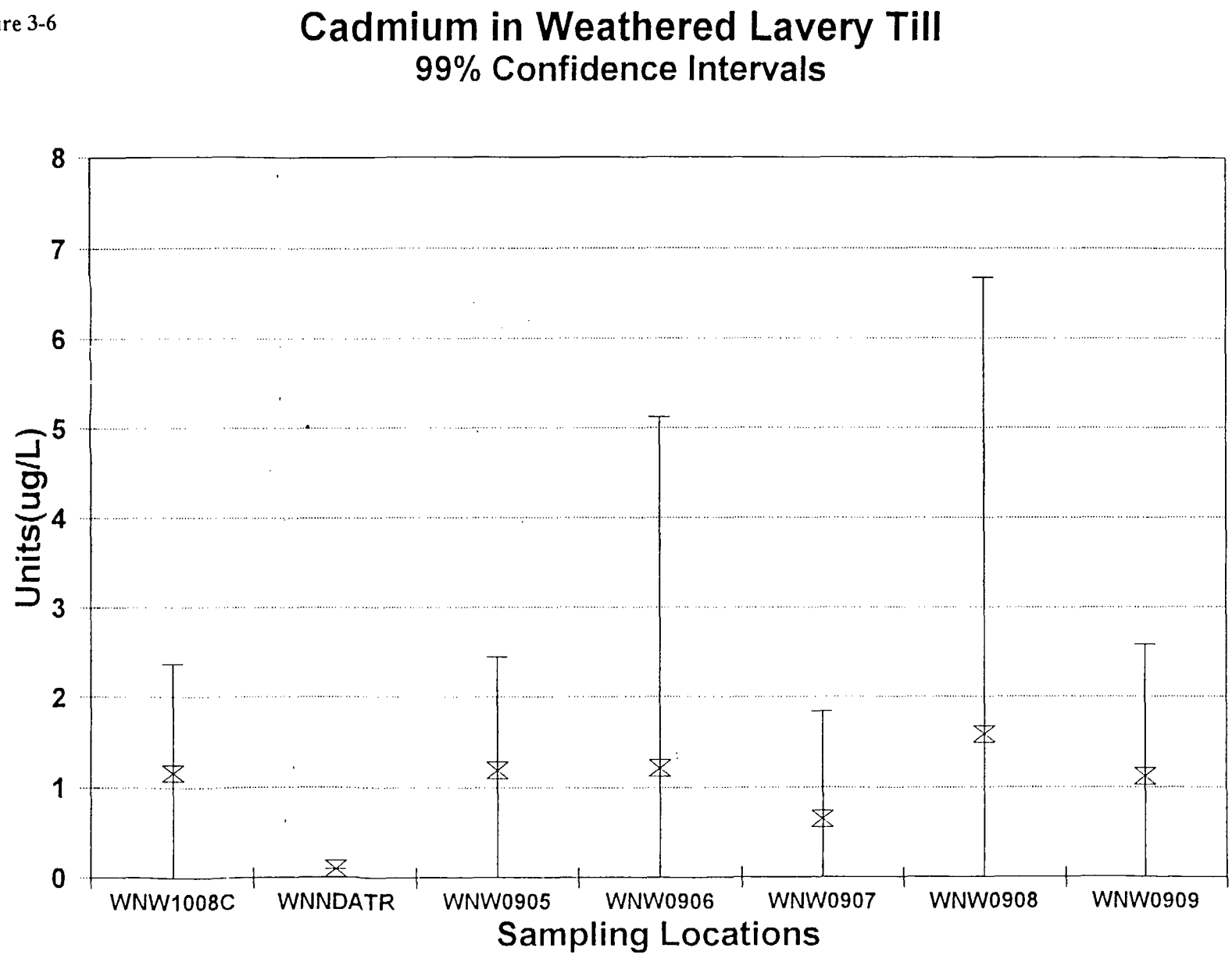
Note: WNW1008C is Background Well

Figure 3-5



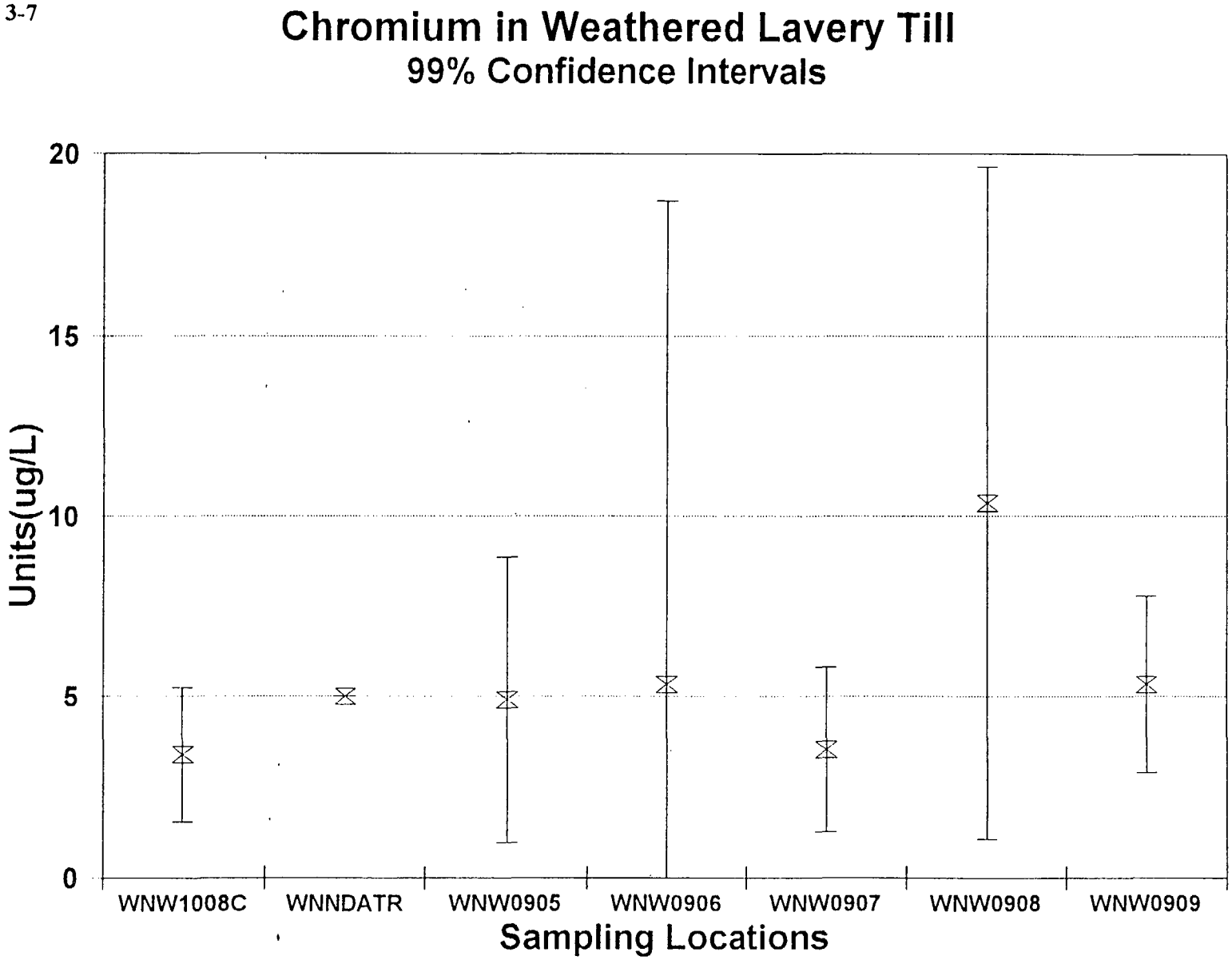
Note: WNW1008C is Background Well

Figure 3-6



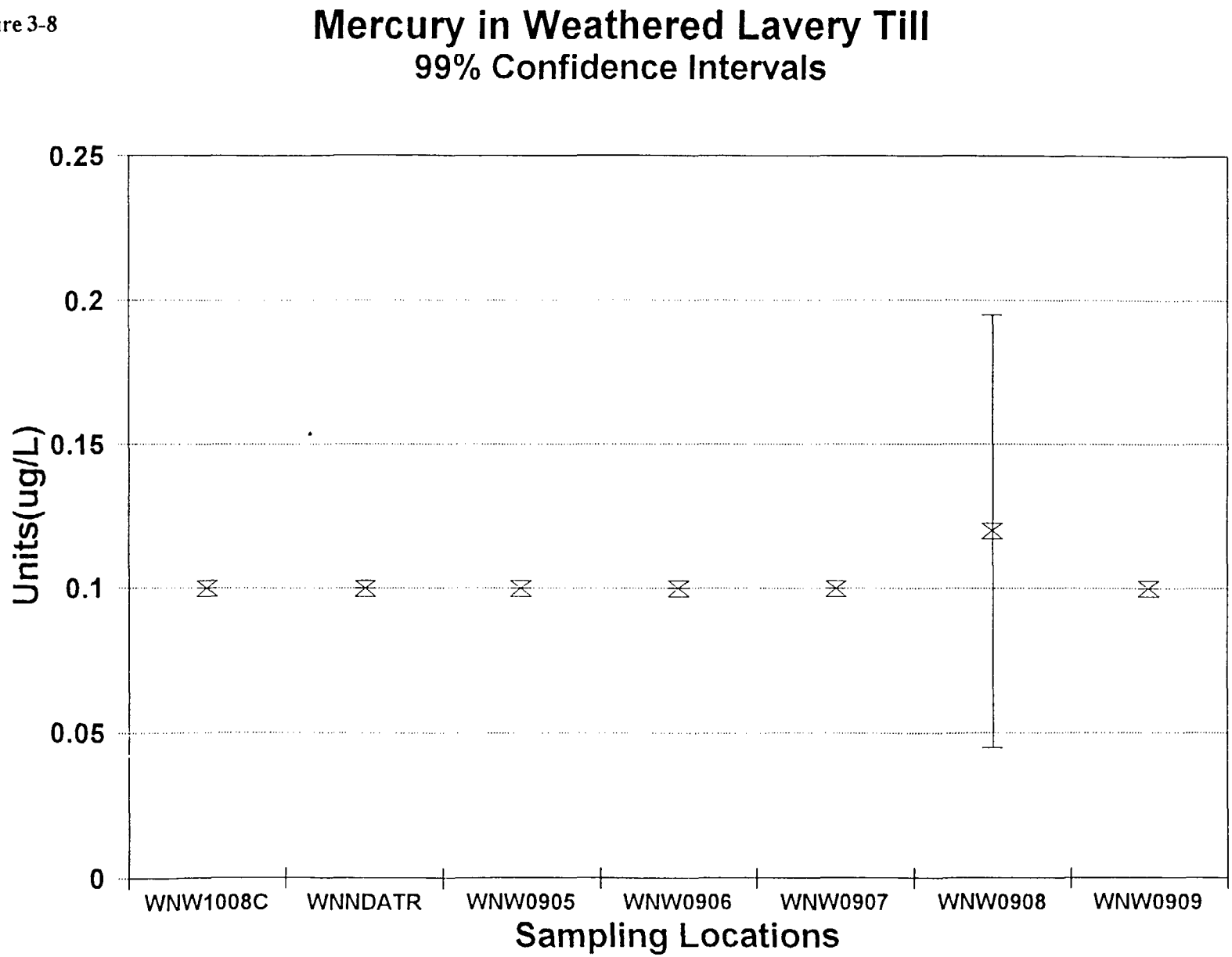
Note:WNW1008C is Background Well

Figure 3-7



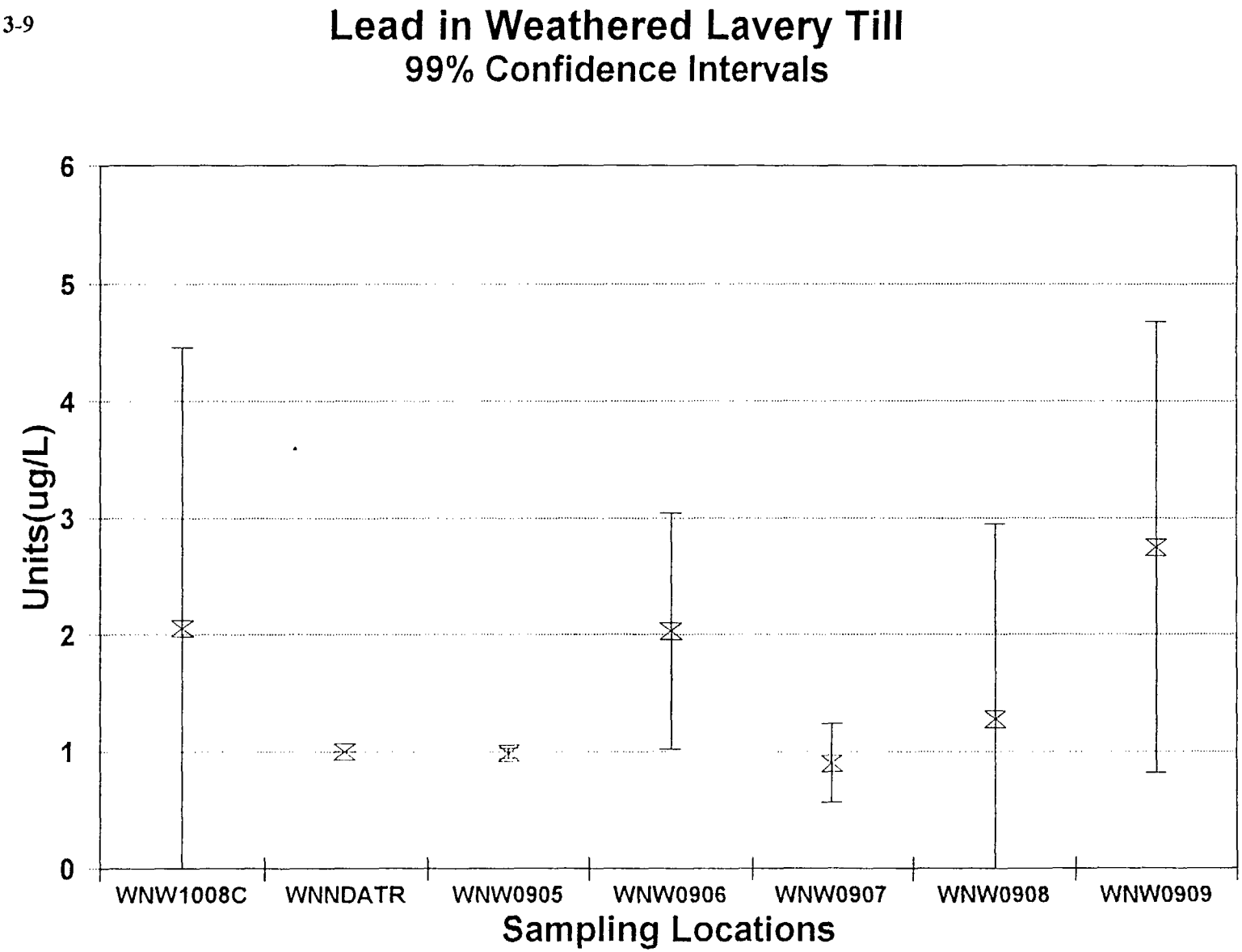
Note: WNW1008C is Background Well

Figure 3-8



Note: WNW1008C is Background Well

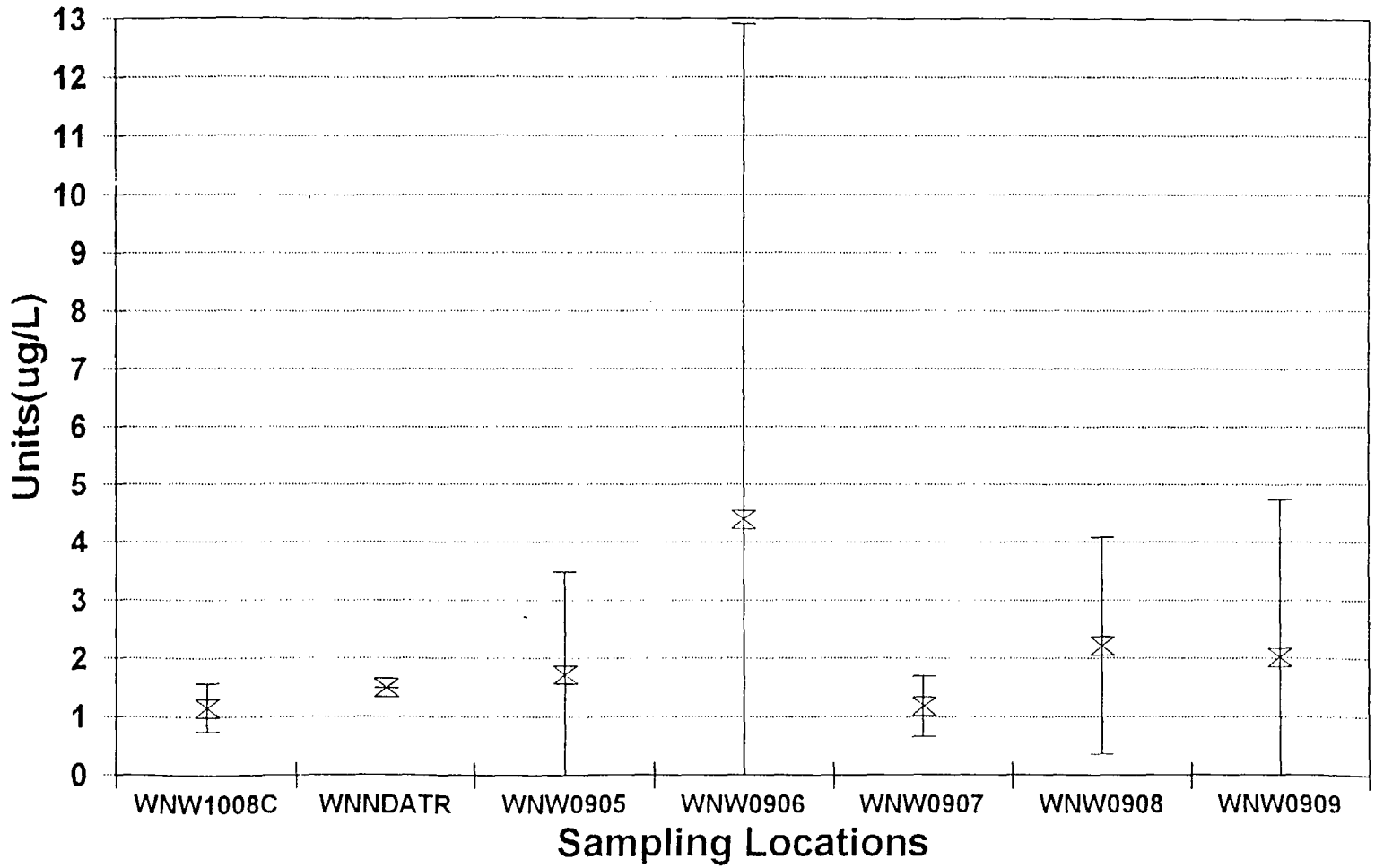
Figure 3-9



Note: WNW1008C is Background Well

Figure 3-10

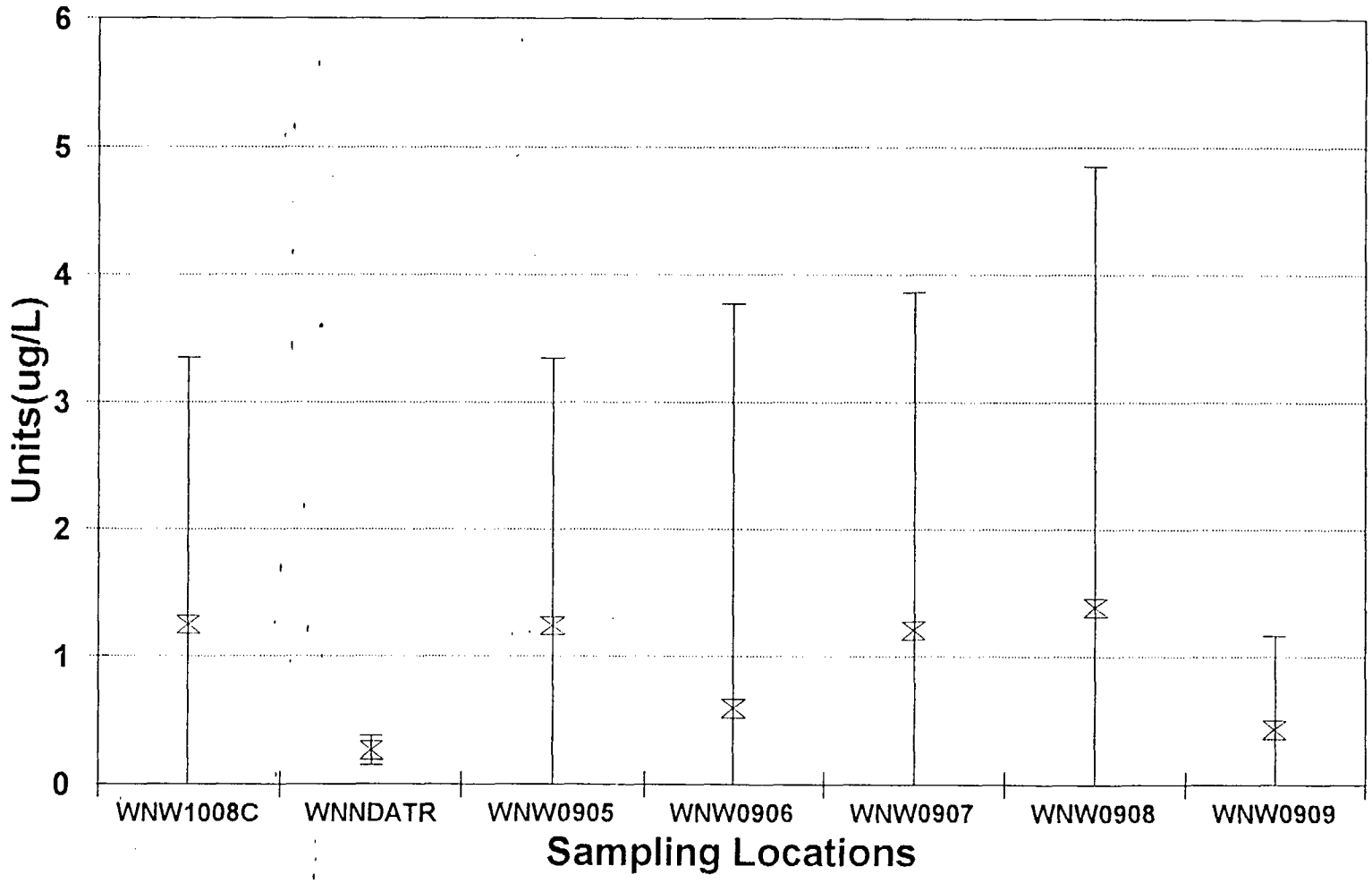
Selenium in Weathered Lavery Till
99% Confidence Intervals



Note: WNW1008C is Background Well

Figure 3-11

Silver in Weathered Lavery Till
99% Confidence Intervals



Note: WNW1008C is Background Well

DLK:94:RIF\NDA\NDAUWTW.DWG

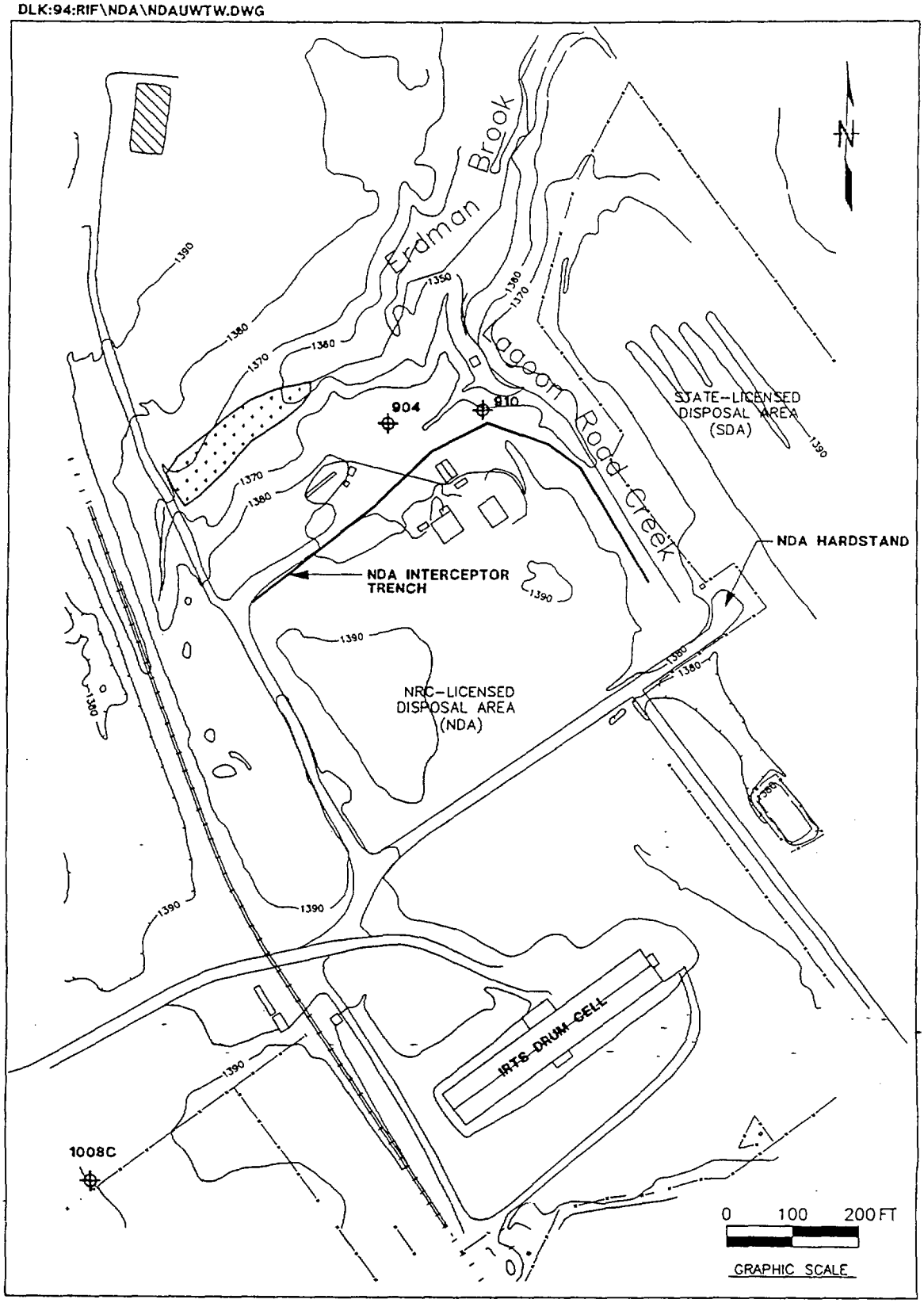
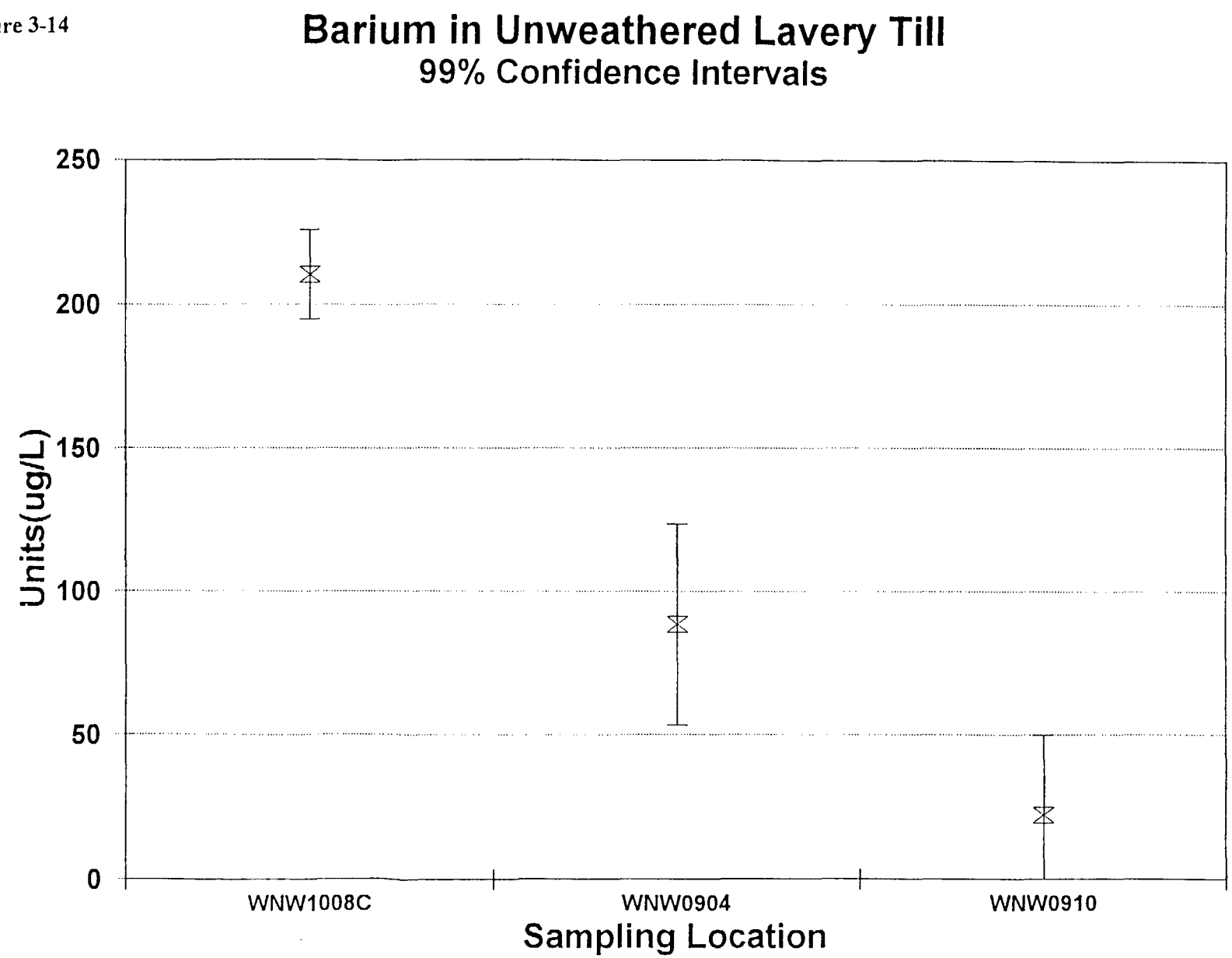


Figure 3-12. Unweathered Till Groundwater Monitoring Wells at the NDA

Figure 3-13

Note: WNW1008C is Background Well

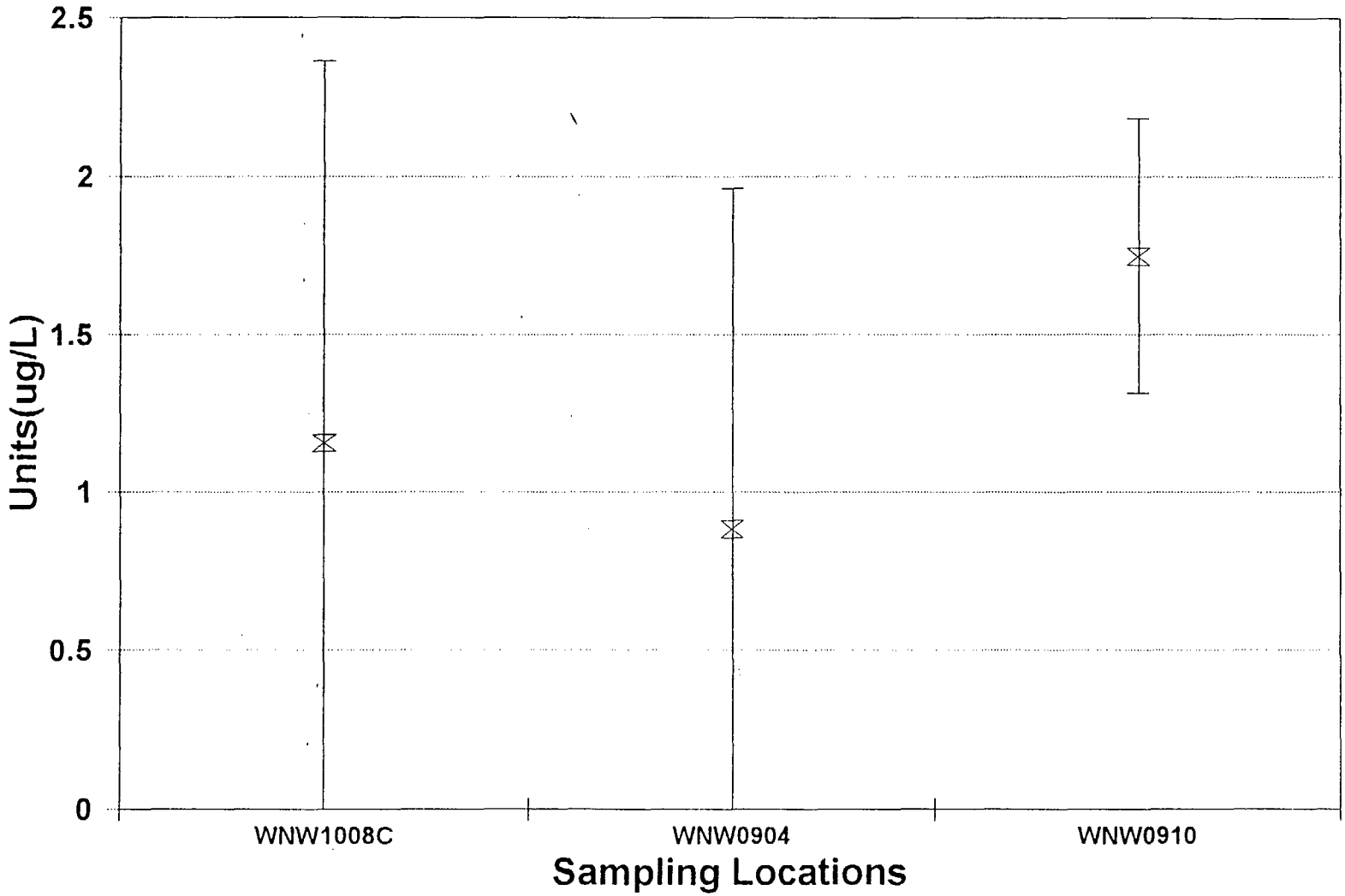
Figure 3-14



Note: WNW1008C is Background Well

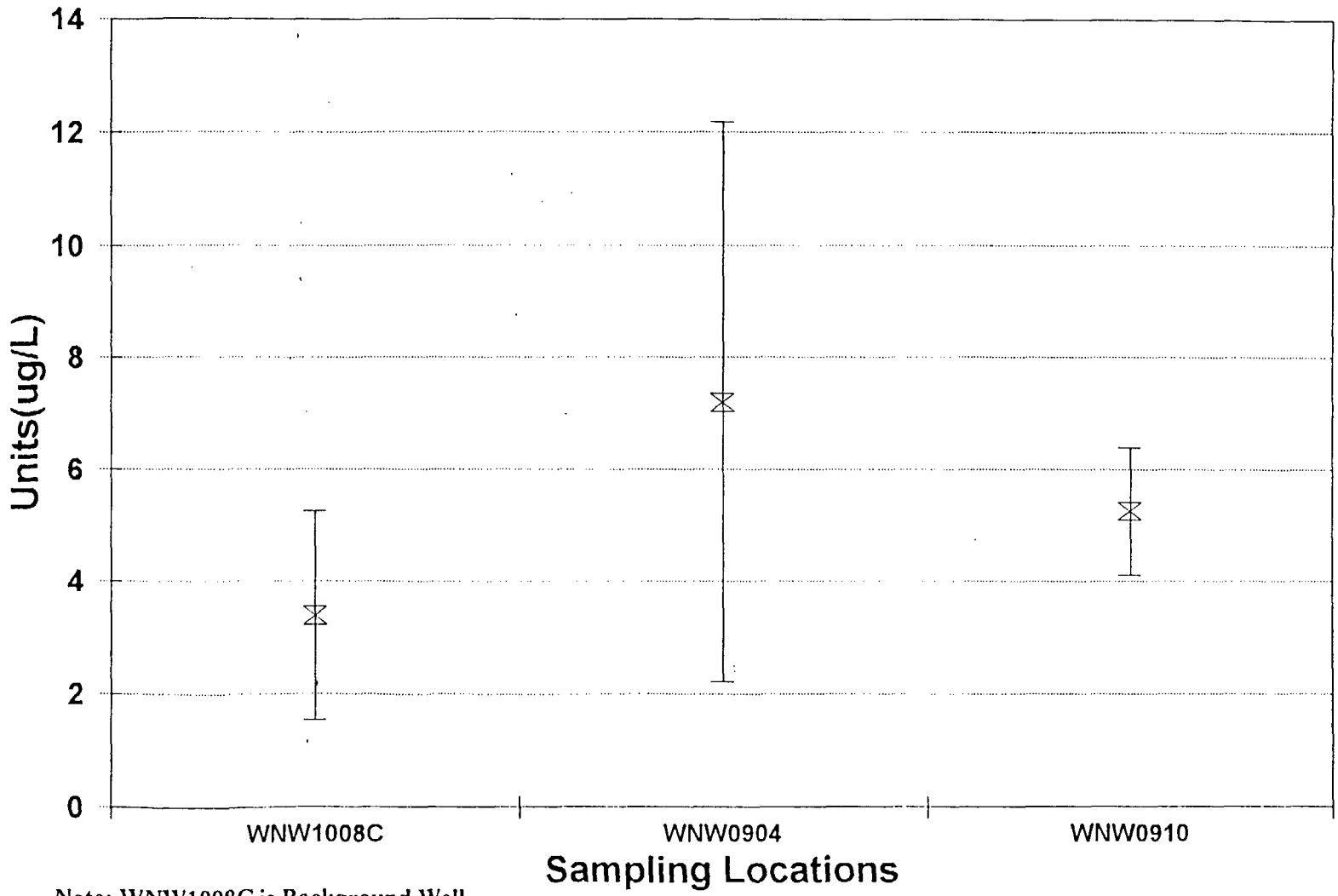
Figure 3-15

Cadmium in Unweathered Lavery Till
99% Confidence Intervals



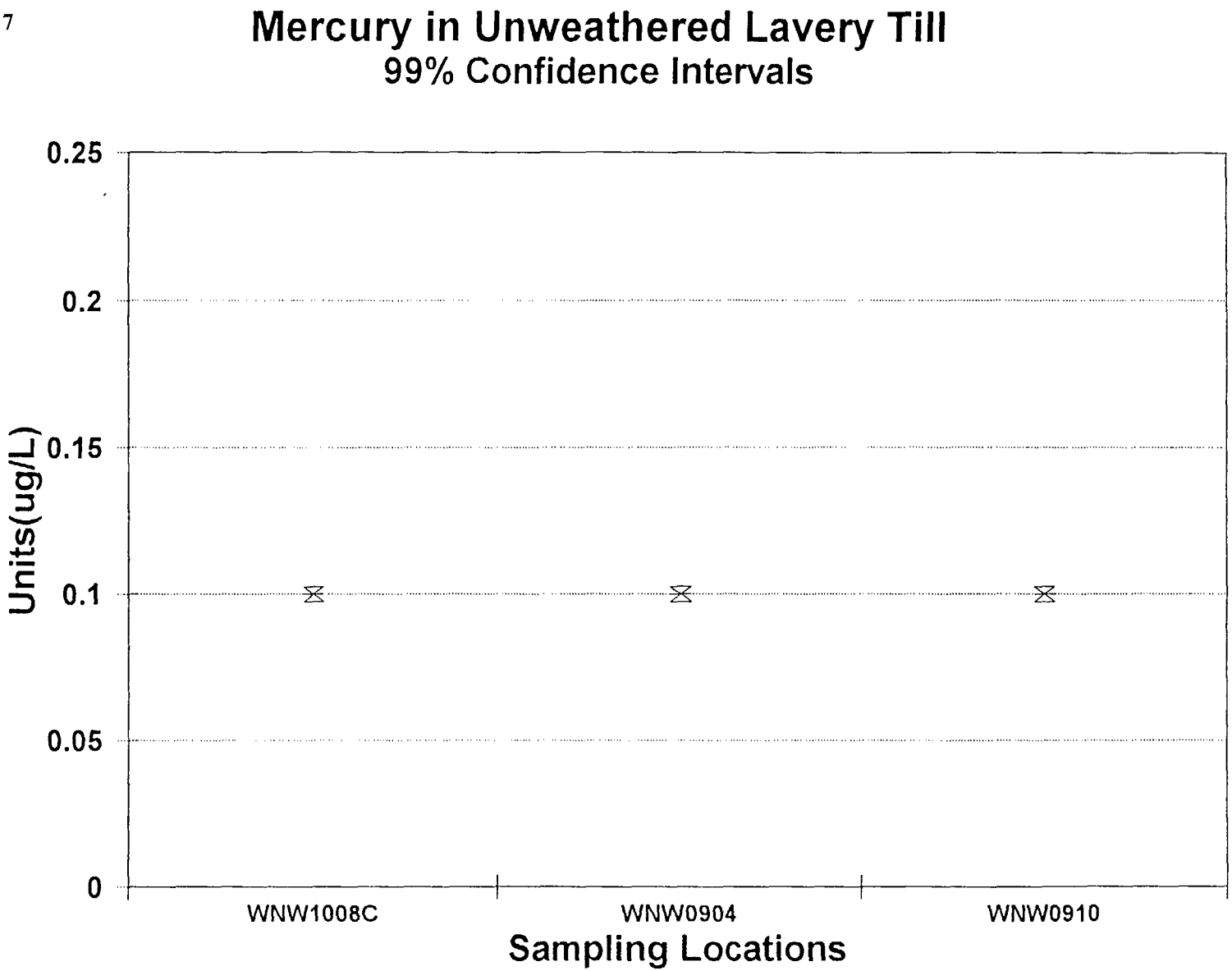
Note: WNW1008C is Background Well

Figure 3-16



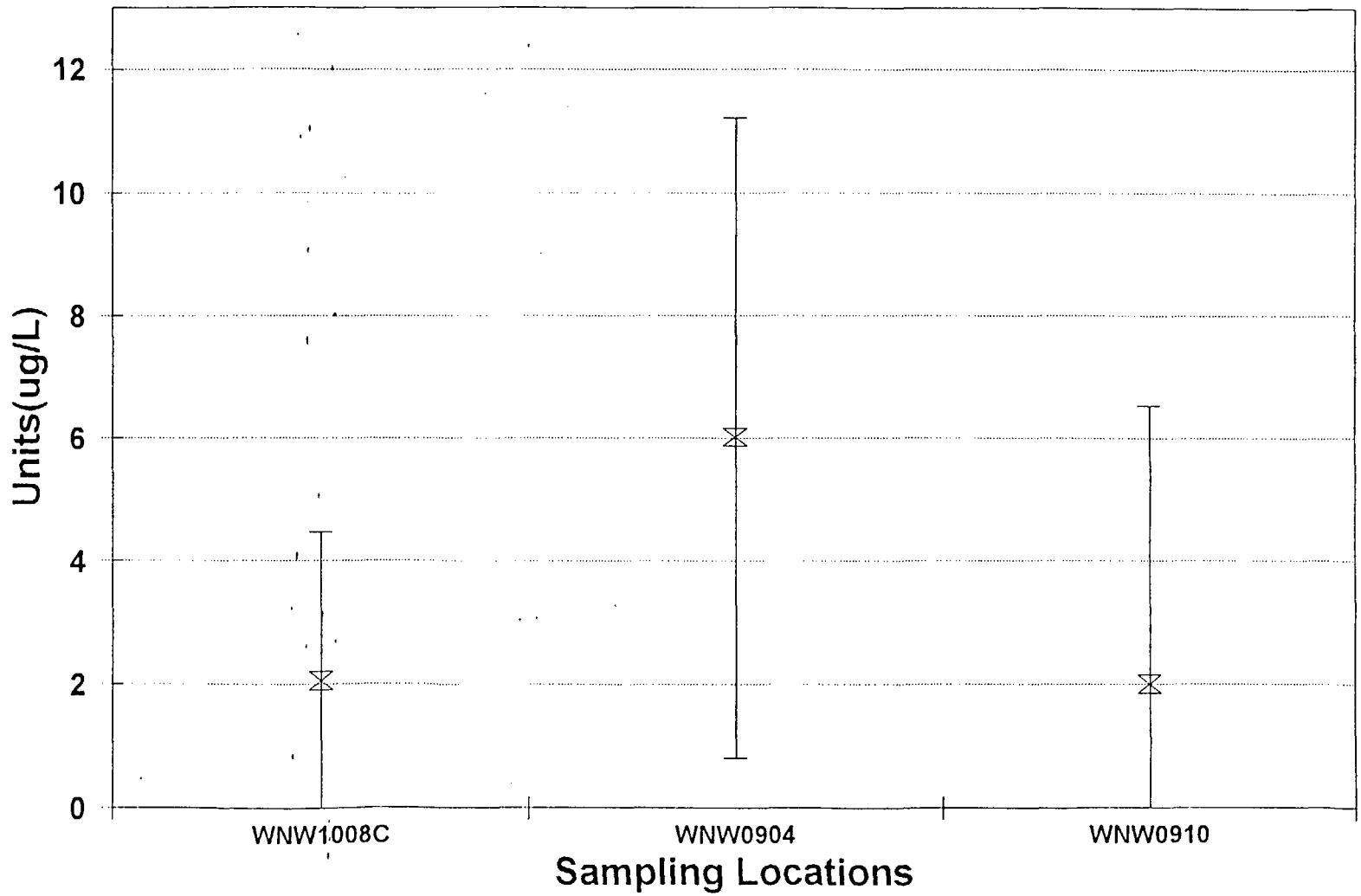
Note: WNW1008C is Background Well

Figure 3-17



Note: WNW1008C is Background Well

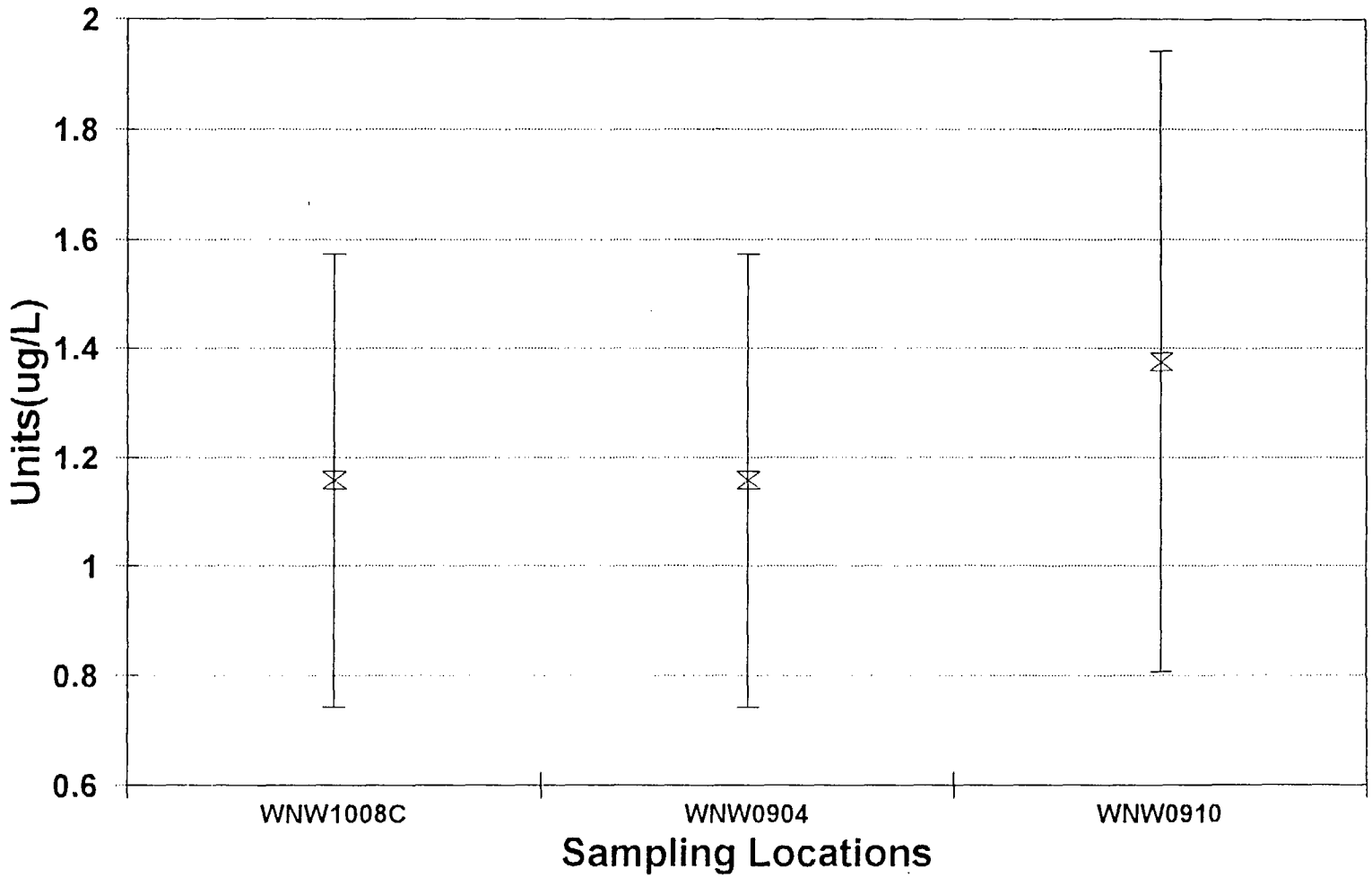
Figure 3-18



Note: WNW1008C is Background Well

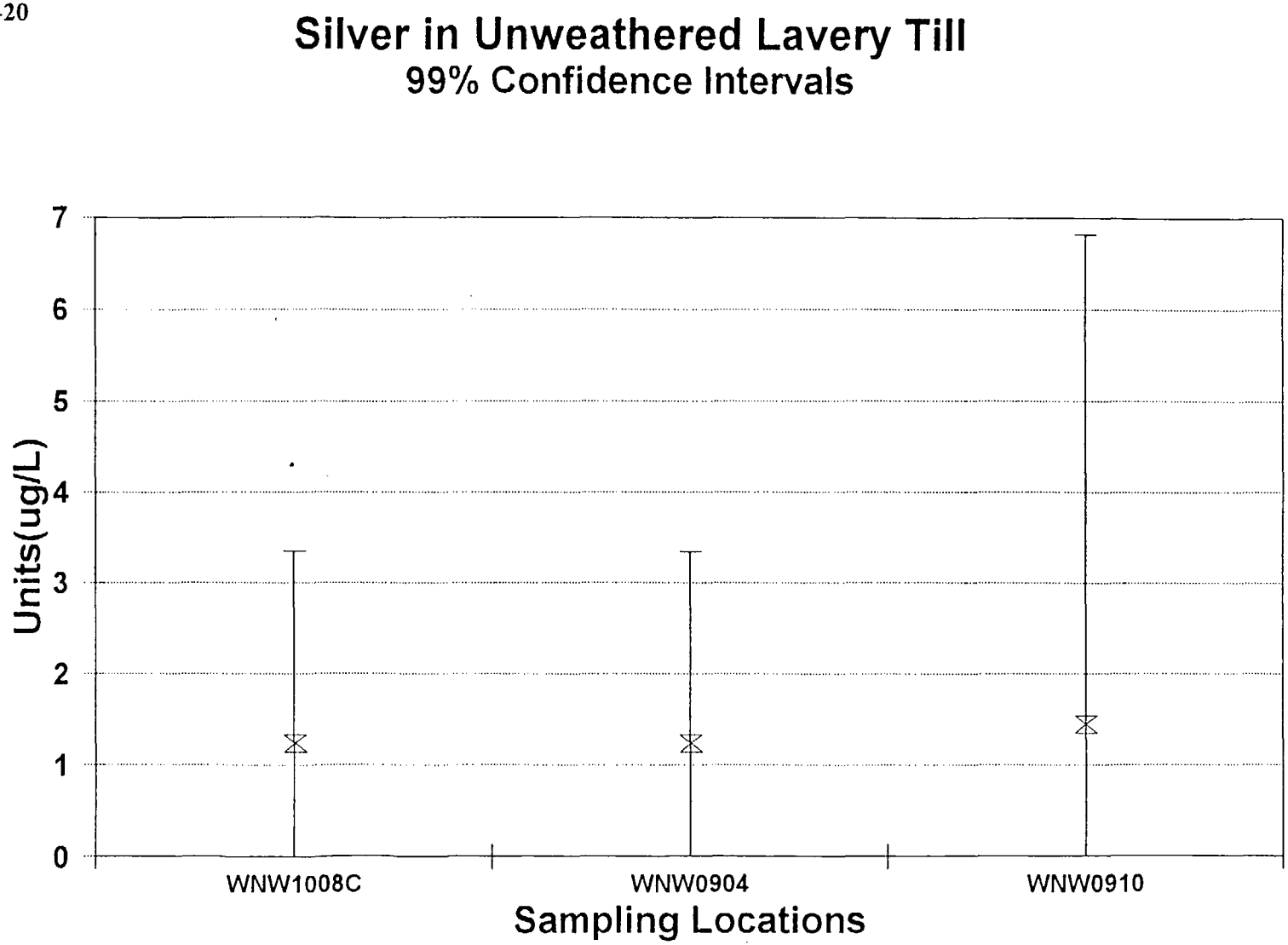
Figure 3-19

Selenium in Unweathered Lavery Till
99% Confidence Intervals



Note: WNW1008C is Background Well

Figure 3-20



Note: WNW1008C is Background Well

DLK:94:020:RFI\NDA\NDAKRW.DWG

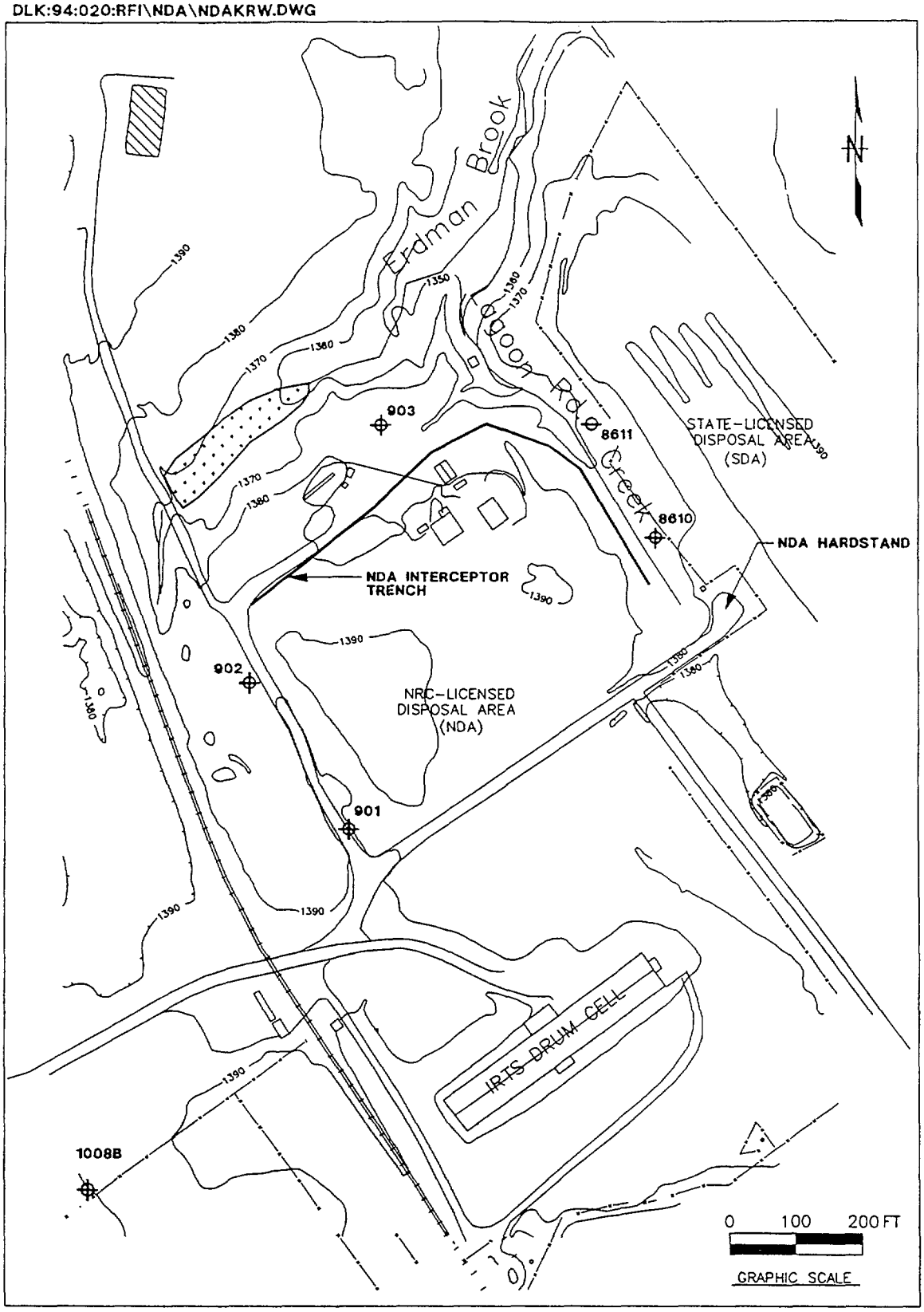
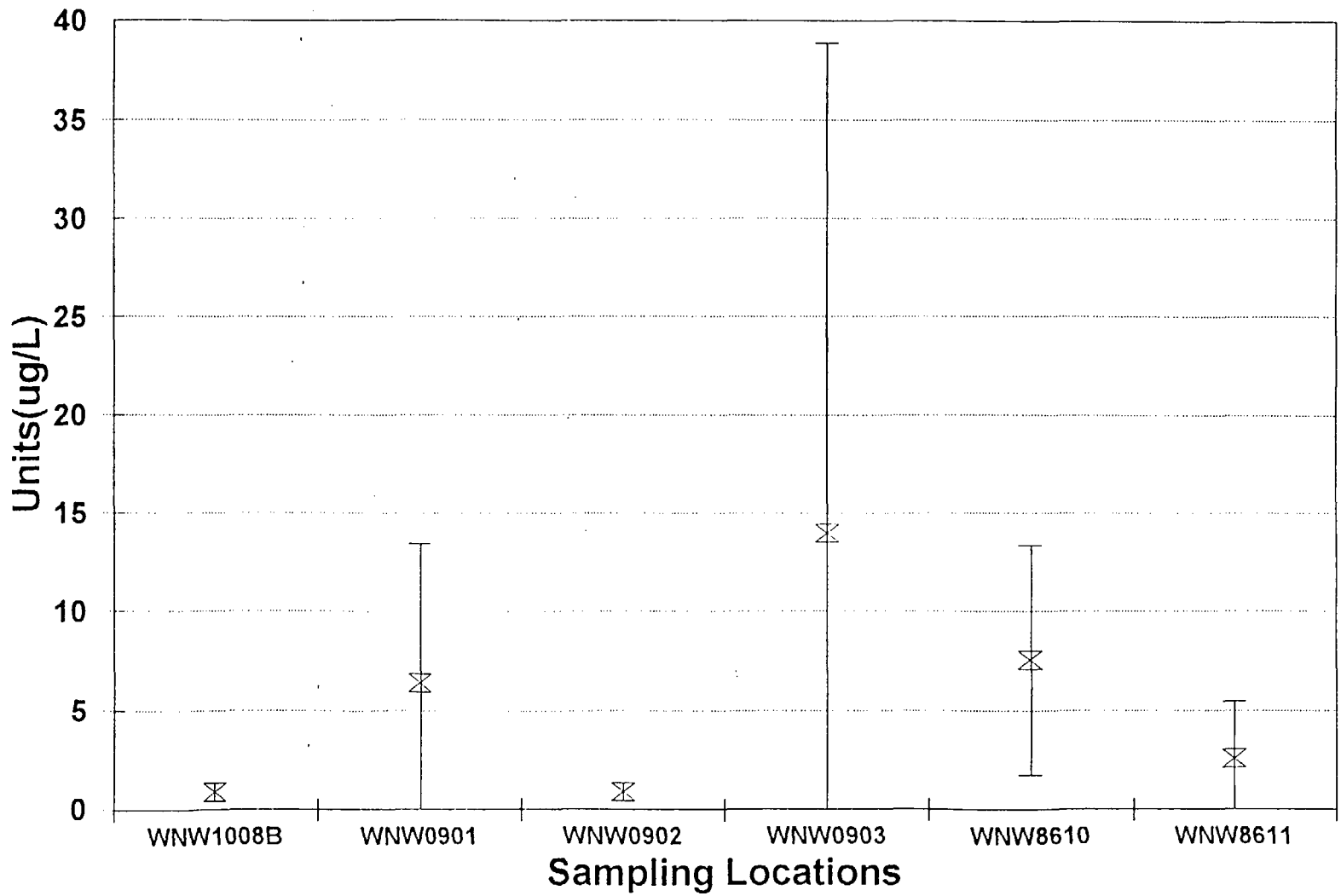


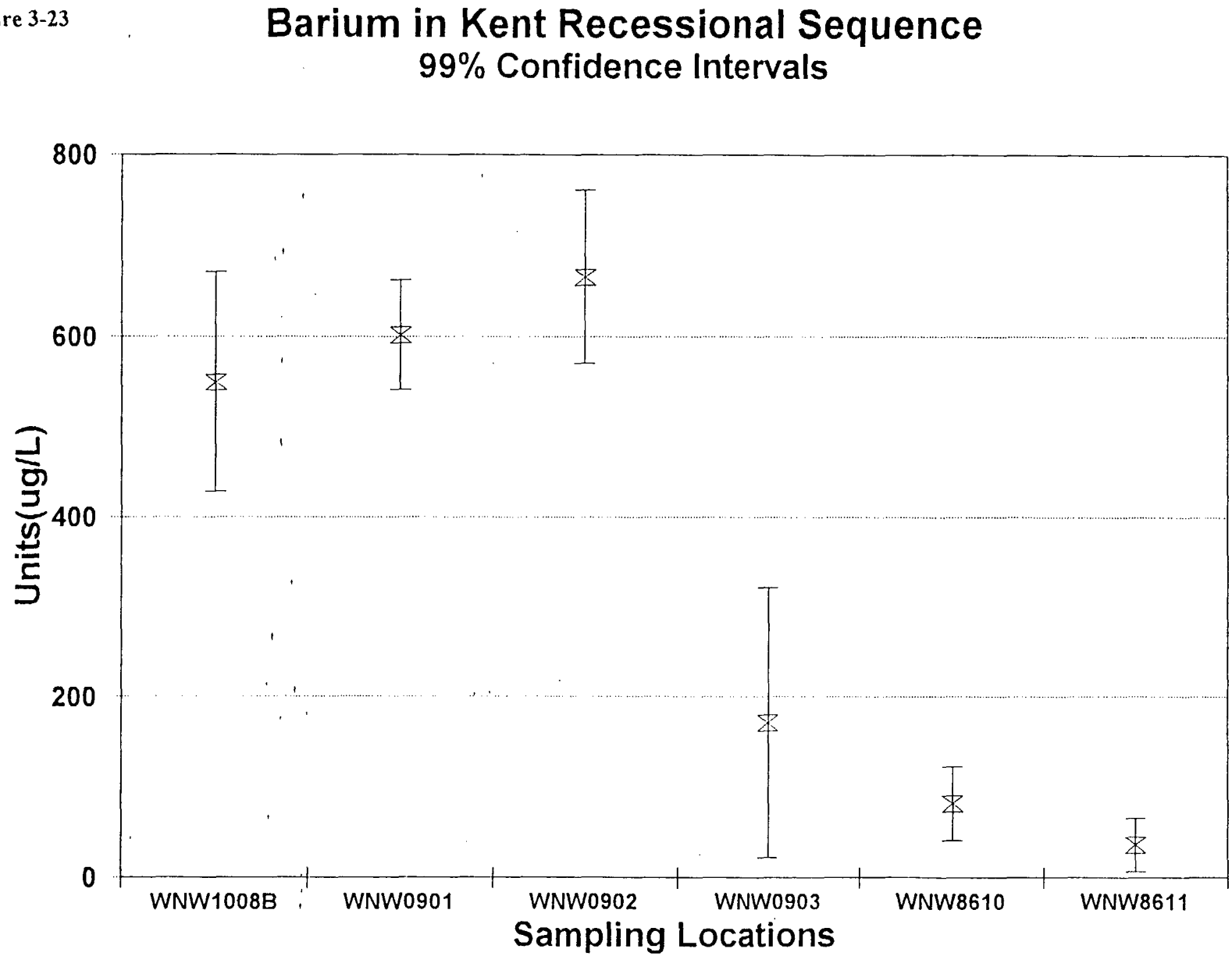
Figure 3-21. Kent Recessional Sequence Groundwater Monitoring Wells at the NDA

Figure 3-22



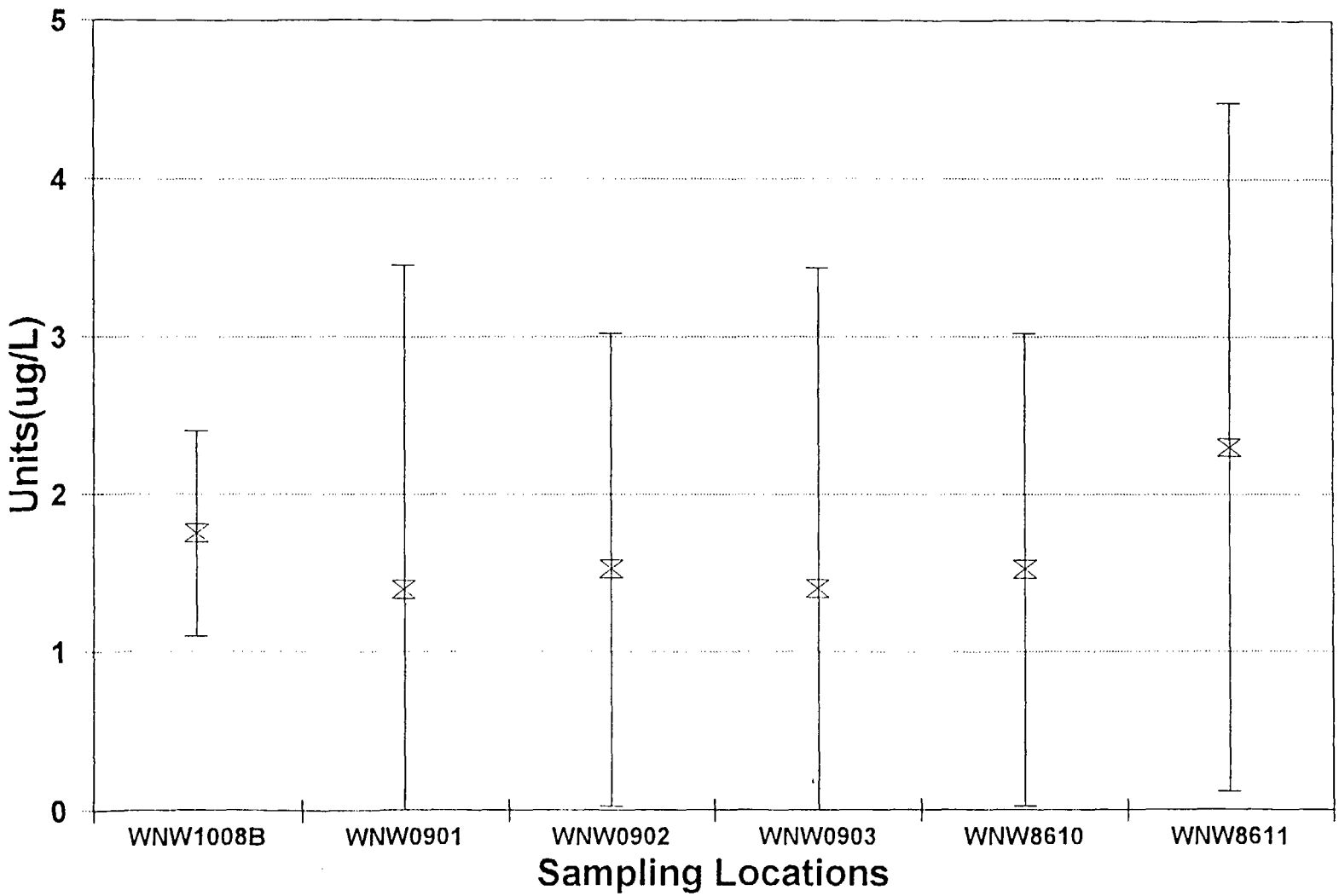
Note: WNW1008B is Background Well

Figure 3-23



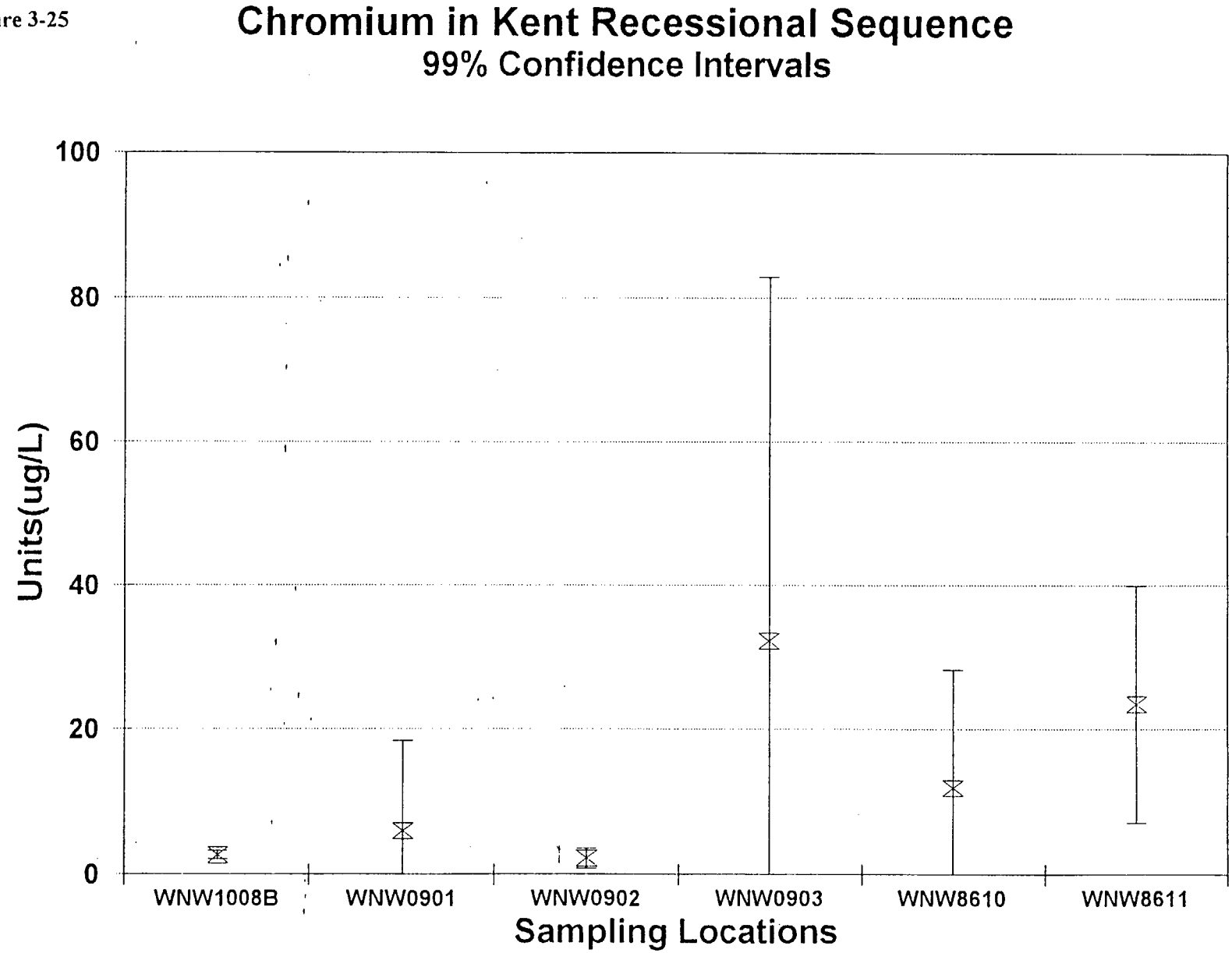
Note: WNW1008B is Background Well

Figure 3-24



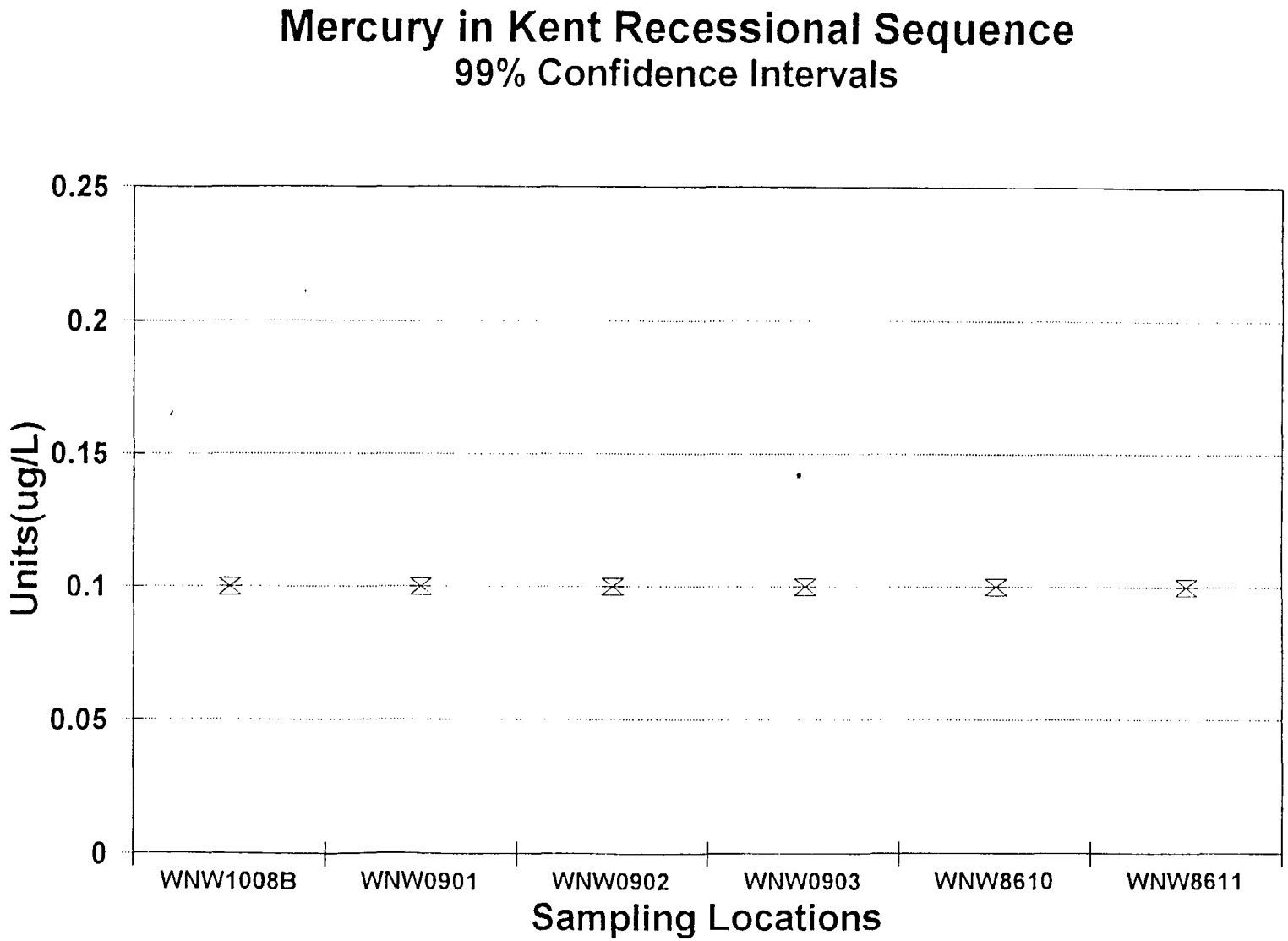
Note: WNW1008B is Background Well

Figure 3-25



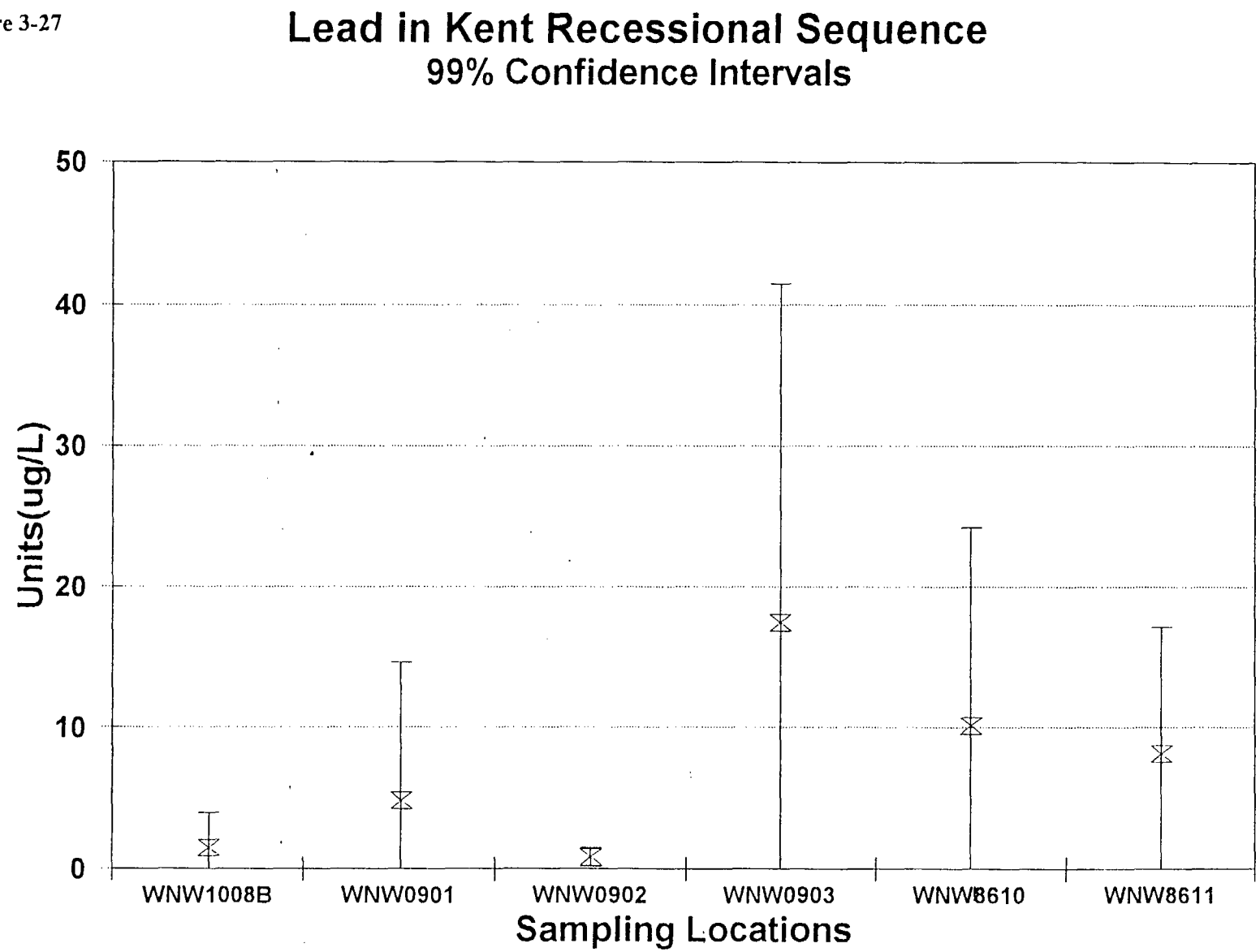
Note: WNW1008B is Background Well

Figure 3-26



Note: WNW1008B is Background Well

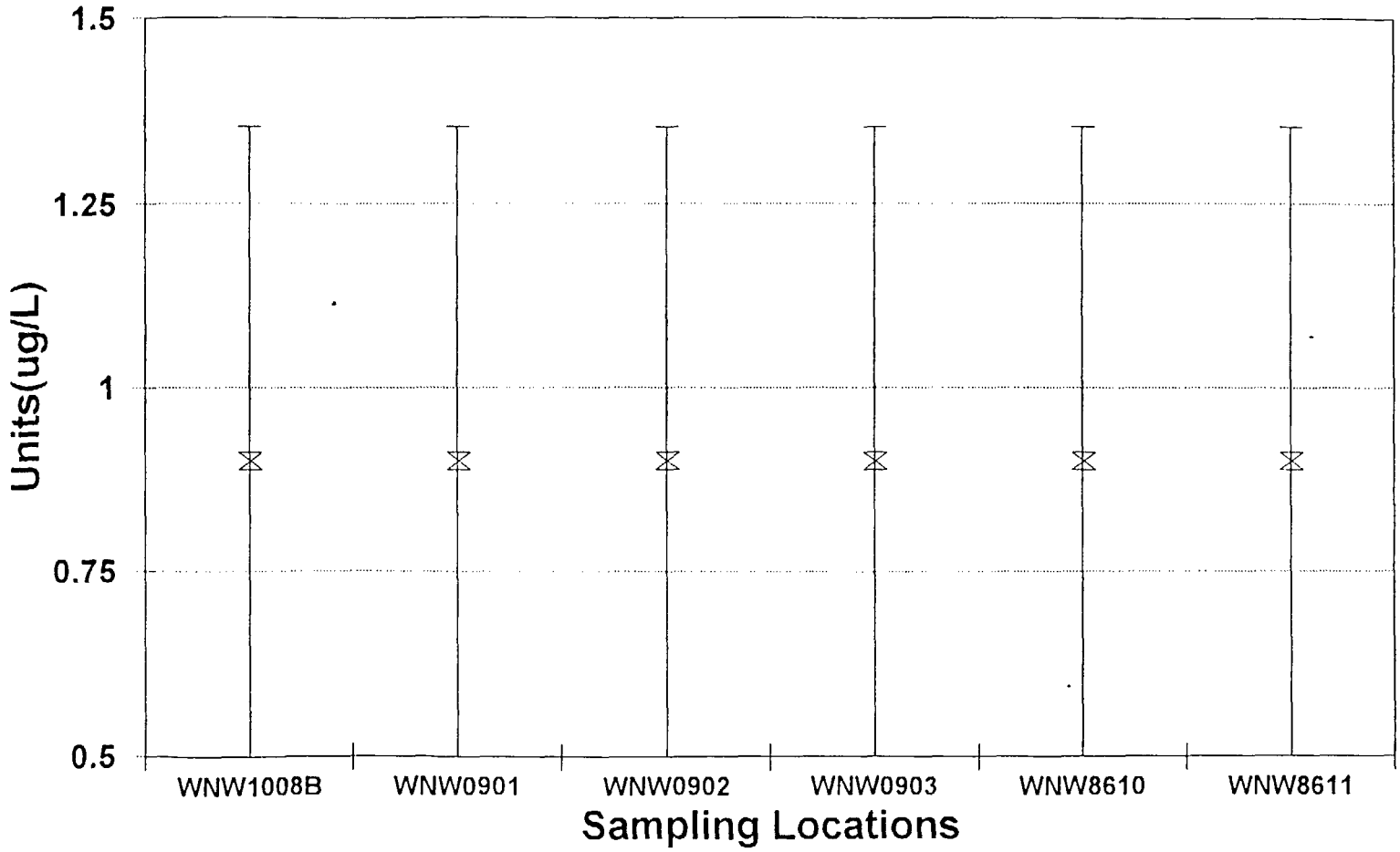
Figure 3-27



Note: WNW1008B is Background Well

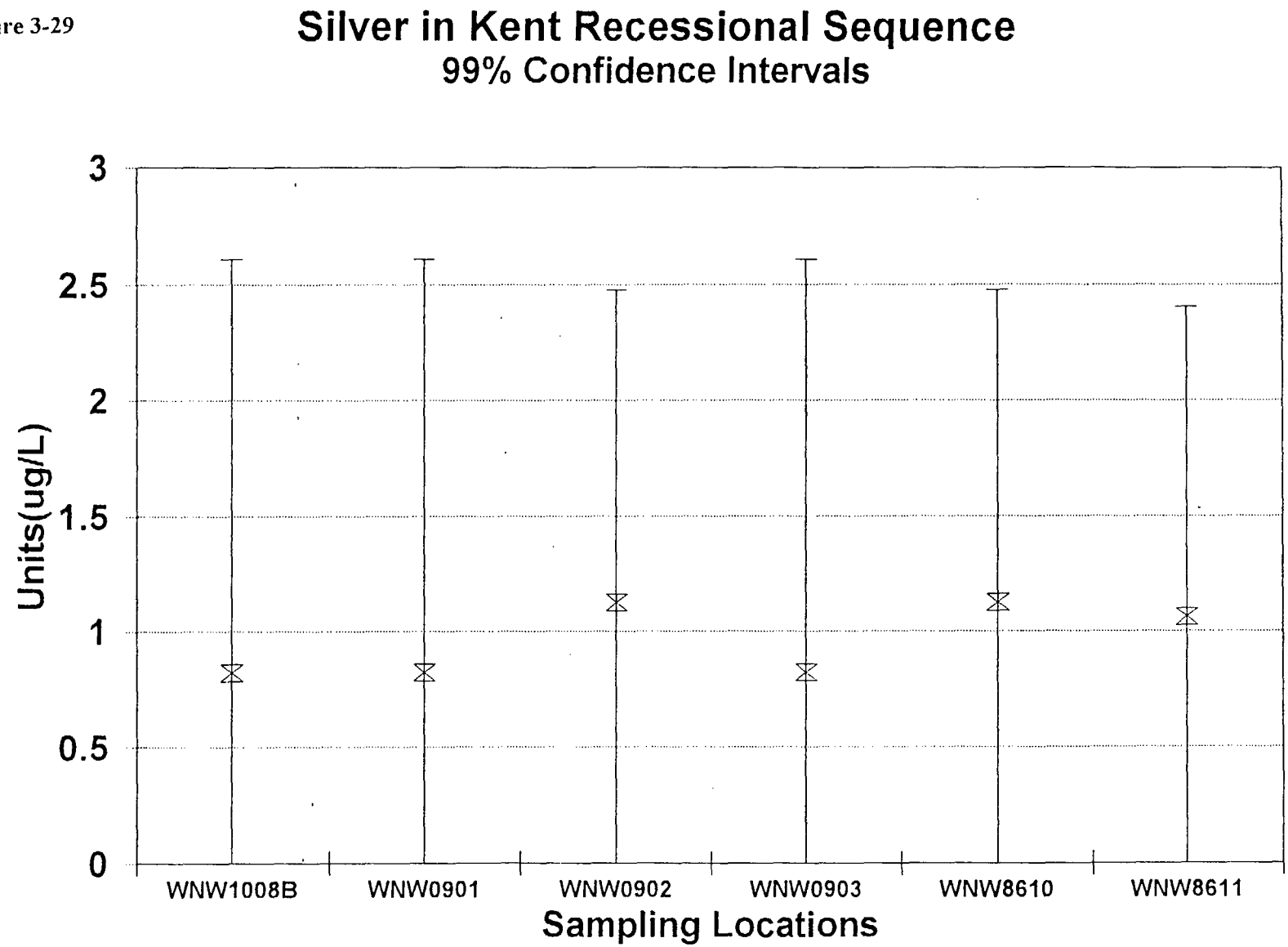
Figure 3-28

Selenium in Kent Recessional Sequence
99% Confidence Intervals



Note: WNW1008B is Background Well

Figure 3-29



Note: WNW1008B is Background Well

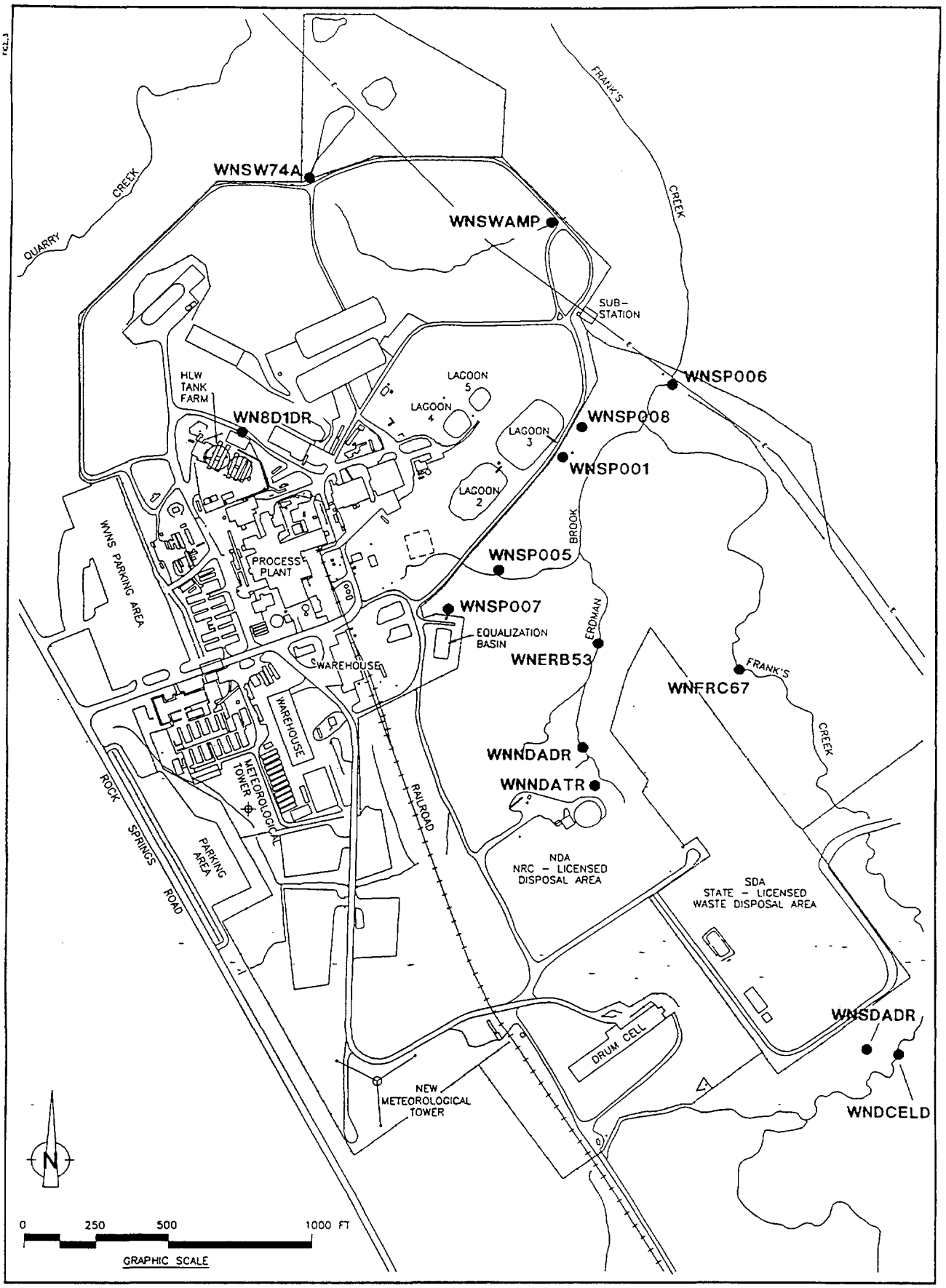


Figure 3-30. Sampling Locations for On-site Surface Water

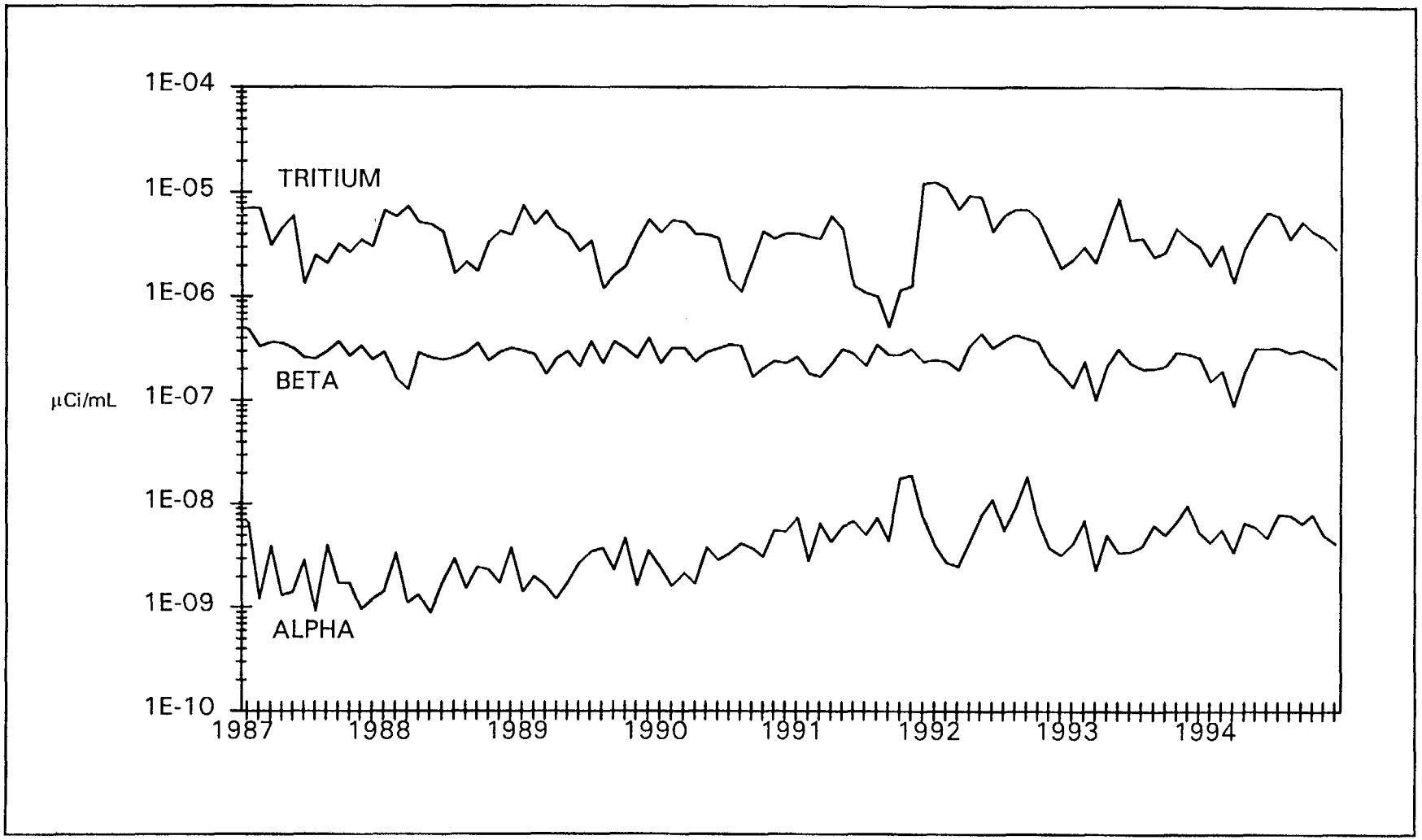


Figure 3-31. **Seven-Year Trends of Gross Alpha, Gross Beta, and Tritium Concentrations at Sampling Location WNNDADR.**

Appendix A

NDA Waste Profile; Drawing 900E-4974 (NDA Base Map);
Groundwater Surface in
Weathered Till Unit May 1993

THIS PAGE INTENTIONALLY LEFT BLANK

Appendix B

Characteristics of Chemical Constituents Known to be Disposed in the NDA

THIS PAGE INTENTIONALLY LEFT BLANK

Known Chemical Contaminant Inventory for the NDA

Based upon available documentation, disposal records, and employee interviews, the following materials have been identified as having been disposed in the NDA.

It was the general practice that liquids were absorbed with vermiculite before disposal. Therefore, in all instances where liquids have been identified in the following summary, it is assumed that they were disposed with absorbent unless otherwise noted.

Lead shielding
Monoethylamine
Mineral spirits and 30% TBP solvent
Dodecane and 30% TBP solvent
FRS ion exchange resins (cross-linked phenol formaldehyde polycondensate in granular form)
FRS Culligan filter units (activated carbon)
FRS diatomaceous filter media
FRS air filters
02 resins (two different kinds: Zeolite and Cs-100)
02 sludge - included with 02 Duolite resin quantity
Ruptured nuclear reactor fuel
Laboratory-associated wastes (Table 4-1)

THIS PAGE INTENTIONALLY LEFT BLANK

PHYSICAL AND CHEMICAL CHARACTERISTICS

THIS PAGE INTENTIONALLY LEFT BLANK

Lead

Physical and Chemical Characteristics

Physical Form - Metal, solid

Physical Description - Bluish grey, soft metal, heavy ductile, soft grey solid

Temperature - Ambient

pH - N/A

General Chemical Class - Metal

Molecular Weight - 207.19

Specific Gravity - 11.34

Boiling Point - 2013K Vapor Pressure - 1mm @ 973^{0}C Flash Point - N/A

Solubility in Water - Insoluble; dissolves slowly in water containing a weak acid

Cohesiveness of the Waste - Solid

Monoethylamine

Physical and Chemical Characteristics

Physical Form - Liquid

Physical Description - Colorless liquid with a strong ammonia-like odor

Temperature - Ambient

pH - N/A

General Chemical Class - Aliphatic amine

Molecular Weight - 45.10

Specific Gravity - 0.687 @ 15^0C

Boiling Point - 289.82K Vapor Pressure - 1.18 ATM Flash Point - 255K

Solubility in Water - Miscible

Cohesiveness of the Waste - Unknown due to insufficient disposal documentation

Amsco Mineral Spirits

Physical and Chemical Characteristics

Physical Form - Liquid

Physical Description - Odorless mineral spirits - odorless watery liquid

Temperature - Ambient

pH - N/A

General Chemical Class - Aliphatic hydrocarbon, petroleum distillates

Molecular Weight - N/A

Specific Gravity - .7550 @ 60^0 F

Boiling Point - 358^0 F Vapor Pressure - N/A Flash Point - 128^0 F

Solubility in Water - insoluble

Cohesiveness of the Waste - Unknown due to insufficient disposal documentation

NFS Technical Specification

Amsco Odorless Mineral Spirits (W-5)

1.	Specific Gravity at 60^{0}F	.7550
2.	API Gravity at 60^{0}F	54.5
3.	Aniline Cloud Point ^{0}F	185
4.	Kauri-Butanol Value No. cc	27.2
5.	Flash Point ^{0}F	128
6.	Color	+30
7.	Odor	Good
8.	Initial Boiling Point ^{0}F	358
	5%	360
	10%	361
	20%	362
	30%	364
	40%	365
	50%	366
	60%	368
	70%	369
	80%	372
	90%	378
	95%	384
	Dry End Point	390
	ASTM End Point	393

Tributyl Phosphate

Physical and Chemical Characteristics

Physical Form - Liquid

Physical Description - Colorless to pale yellow, odorless liquid

Temperature - Ambient

pH - N/A

General Chemical Class - $(CH_3(CH_2)_3O)_3$ PO organophosphate

Molecular Weight - 266

Specific Gravity - 0.977 - 0.979 20/20^{0}C

Boiling Point - 566.99K Vapor Pressure - Very low Flash Point - 438K

Solubility in Water - <1% by volume @ 25^{0}C

Cohesiveness of the Waste - Absorbed on vermiculite

See also NFS Technical Specification

NFS Technical Specification

Tributyl Phosphate

1.	Specific Gravity at 20/20^{0}C	0.977 - 0.979
2.	Acidity as Phosphoric Acid	0.01% by Wt. max.
3.	Water, Karl Fischer Test	0.3% max.
4.	Butanol	0.2% max.
5.	Color, APHA	15 max.
6.	Appearance	Clear and free from suspended matter
7.	Molecular Weight $(CH_3(CH_2)_3O)_3$ PO	266.316 (calc.)
8.	Boiling Point at 27mm	177^0 - 178^{0}C
9.	Freezing Point	<-80^{0}C
10.	Density at 25^{0}C	0.972 g/ml
11.	Weight per U.S. gallon at 68^{0}F	8.18 lb.
12.	Coefficient of Expansion	0.00093 per 1^{0}C 0.00052 per 1^{0}F
13.	Refractive Index, nd at 20^{0}C 25^{0}C	1.424 1.422
14.	Viscosity at 25^{0}C 85^{0}C	3.41 centipoise 38.6 Saybolt Seconds
15.	Latent Heat of Vaporization	55.1 cal/g
16.	Dielectric Constant at 30^{0}C	7.959
17.	Flash Point, Cleveland Open Cup	294^{0}F
18.	Solubility in Water at 25^{0}C	<1% by Volume
19.	Solubility of Water in Tributyl Phosphate at 25^{0}C	6.55% by Volume

n-Dodecane (Adakane - 12)

Physical and Chemical Characteristics

Physical Form - Liquid

Physical Description - Kerosene-like liquid

Temperature - Ambient

pH - N/A

General Chemical Class - Aliphatic hydrocarbon

Molecular Weight - 170.34

Specific Gravity - 0.7487

Boiling Point - 216.3^{0}C Vapor Pressure - 0.3 mmHg at 20° C Flash Point -74°C

Solubility in Water - Insoluble

Cohesiveness of the Waste - Low cohesiveness

See Material Safety Data Sheet and NFS Technical Specification

NFS Technical Specification

Adakane-12
(EM Spec 112)

1.	Flash Point, Tag Closed Cup	70^0C
2.	Specific Gravity at $25^0C/25^0C$	0.77 max.
3.	Viscosity, at 25^0C	2.0 cp., max.
4.	Compositions, n-paraffins	C_{12} - 80% min.
		C_{14} - 15% max.
		C_{16} - 2% max.
		Higher - 1% max.
		Odd Chain Length n-paraffins - 1% max.
5.	Olefin content	Equivalent to iodine number of 0.1 max.
6.	Aromatic content	1.0 max., ultraviolet absorbance at 2800 angstroms for 1 cm cell.
7.	Alcohol content	0.05% max.
8.	Solids	None visible
9.	Color	Colorless
10.	Disengaging of 80 volume % Hydrocarbon-20% tributyl phosphate from:	1 M NaOH - 80 sec., max. 1 M HNO_3 - 50 sec., max.

FRS Ion Exchange Resin (Duolite C-3 Resin-Raohnmsand Haas)

Physical and Chemical Characteristics

Physical Form - Solid

Physical Description - Beads

Temperature - Ambient

pH - Acidic

General Chemical Class - Methylene Sulfonic Functional Group

Molecular Weight - Not applicable

Specific Gravity - 1.24

Boiling Point - Not applicable Vapor Pressure - Less than 1 Flash Point - Not known

Solubility in Water - Negligible

Cohesiveness of the Waste - Moderately cohesive

Composition:

40% - 50% P (form/phenol) Sulfomethylated
50% - 60% water

Highly porous acidic cation resin crosslinked phenol formaldehyde polycondensate in granular form

02 Ion Exchange Resin - CS-100

Physical and Chemical Characteristics

Physical Form - Solid

Physical Description - Bead-like, granular, reddish brown

Temperature - Ambient

pH - 4-6

General Chemical Class - Carboxy metholated phenol formaldehyde polymer

Molecular Weight - Not applicable

Specific Gravity - Not known

Boiling Point - NA Vapor Pressure - NA Flash Point - NA

Solubility in Water - NA

Cohesiveness of the Waste - Low cohesiveness

Composition:

43% - 48% water
45% - 50% polymer

O2 Water Treatment Sludge

Physical and Chemical Characteristics

Physical Form - Semisolid

Physical Description - Sludge-like substance

Temperature - Ambient

pH - Acidic

General Chemical Class - Not applicable

Molecular Weight - Not applicable

Specific Gravity - 5 gr/ml

Boiling Point - NA Vapor Pressure - NA Flash Point - NA

Solubility In Water - NA

Cohesiveness of the Waste - Low cohesiveness

% Moisture - 83 - 86%

Sludge was sampled and analyzed in June 1990 for TCLP metals, TCL volatiles, TCL semivolatiles, pesticides/PCBs, herbicides, EPTOX metals, phenols, cyanide, and dioxin/furan. The data does not indicate that any constituents were detected in concentrations exceeding MCLs stipulated in 40 CFR 261.24 for RCRA toxicity characteristic hazardous wastes.

Spent Nuclear Fuel

Physical and Chemical Characteristics

Physical Form - Solid

Physical Description - Metal assemblies in three 30-gallon drums

Temperature - Ambient

pH - Not applicable

General Chemical Class - Not applicable

Molecular Weight - Not applicable

Specific Gravity - Not applicable

Boiling Point - NA Vapor Pressure - NA Flash Point - NA

Solubility In Water - NA

Cohesiveness of the Waste - High cohesiveness

% Moisture - Not applicable

Spent nuclear fuel was buried in Hole 48 on April 23, 1969. The buried fuel consisted of 42 NPR fuel assemblies with ruptured cladding from NFS reprocessing campaign 12. These fuel assemblies were packaged for disposal in three 30-gallon drums — numbers 134, 144, and 155 — with a total waste volume of 12.03 ft^3. According to Duckworth (WVNS-CAL-200), the buried fuel was estimated to contain 820 kilograms of plutonium, 3,330 grams of uranium-235, 458 kilograms of uranium metal, and had a dose rate of 8,000 rad per hour. The fuel came from the N-Reactor operated by the DOE in Hanford, Washington. The fuel arrived at WVNS with ruptured cladding, rendering it impossible to reprocess (West Valley Nuclear Services 1993).

Appendix C

Boring Logs for BH-41, BH-42, and BH-39

THIS PAGE INTENTIONALLY LEFT BLANK

SHEET 1 OF: 2 DATE STARTED: 10/14/93 DATE FINISHED: 10/14/93 DRILLER:BUFFALO DRILLING CO. INSPECTOR: ROBERT H. TEIFKE	BORING LOG DAMES & MOORE	BOREHOLE NO.: BH-39 SURFACE ELEVATION (FT.): 1,405.29 NORTHING: 890,851.01 EASTING: 481,067.39
PROJECT: 1993 SOILS PROGRAM JOB NUMBER: 10805-827-8350		LOCATION: NEW MET TOWER

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/22	SS-1	4	8	10	13		Brown pebbly SILT; damp, stiff. (0.4') (ML) Gray brown pebbly clayey SILT; damp, stiff. (1.4') (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	24/19	SS-2	10	16	19	20		Orange brown locally gray pebbly clayey SILT and fine SAND; damp, very stiff. (ML/SM) (Hnu:<0.1ppm, beta/gamma:BB)
5	24/24	SS-3	13	26	33	40		Orange brown pebbly clayey SILT; gray around root networks, closely spaced horizontal partings; damp, hard. (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	24/19	SS-4	19	31	30	30		Orange brown and gray mottled pebbly and cobbly clayey SILT; damp, hard. (1.2') (ML)
	24/19	SS-5	11	17	21	22		Gray pebbly and cobbly clayey SILT; moist, hard. (0.4') (Hnu:<0.1ppm, beta/gamma:BB) (ML) Gray pebbly and cobbly silty CLAY; damp, very stiff. (Hnu:<0.1ppm, beta/gamma:BB) (CL)
10	24/20	SS-6	10	17	20	23		Gray and brown gray pebbly clayey SILT; few laminae, orange coarse silt and fine sand; damp to moist, (ML) very stiff. (Hnu:<0.1ppm, beta/gamma:BB)
	24/24	SS-7	17	28	31	31		Brown gray very pebbly moderately clayey SILT; damp, hard. (ML) (Hnu:<0.1ppm, beta/gamma:BB)
15	24/24	SS-8	11	31	28	32		As above.
	24/24	SS-9	16	25	36	34		Tan gray very pebbly moderately clayey SILT; damp, hard. (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	24/13	SS-10	64	79	93	84		As above, but cobbly. (con't pg 2)

CLASSIFICATION: VISUAL (Modified Burmister) and USCS

METHOD OF SAMPLING: 140 LB. HAMMER
3" O.D. SPLITSPOON SAMPLER

SHEET 2 OF: 2 DATE STARTED: 10/14/93 DATE FINISHED: 10/14/93 DRILLER:BUFFALO DRILLING CO. INSPECTOR: ROBERT H. TEIFKE	BORING LOG DAMES & MOORE	BOREHOLE NO.: BH-3 SURFACE ELEVATION (FT.): 1,405.26 NORTHING: 890,851.01 EASTING: 481,067.39
PROJECT: 1993 SOILS PROGRAM JOB NUMBER: 10805-827-8350		LOCATION: NEW MET TOWER

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
								AUGERED TO 18 FT. SAMPLED TO 20 FT. BOREHOLE BACKGROUTED TO GRADE BACKGROUND READINGS: Hnu = <0.1ppm beta/gamma = 50-60cpm
25								
30								
35								

CLASSIFICATION: VISUAL (Modified Burmister) and USCS

METHOD OF SAMPLING: 140 LB. HAMME
3" O.D. SPLITSPOON SAMPLER

SHEET 1 OF: 2 DATE STARTED: 10/18/93 DATE FINISHED: 10/19/93 DRILLER:BUFFALO DRILLING CO. INSPECTOR: ROBERT H. TEIFKE	BORING LOG DAMES & MOORE	BOREHOLE NO.: BH-41 SURFACE ELEVATION (FT.): 1,386.70 NORTHING: 891,669.37 EASTING: 481,386.24

PROJECT: 1993 SOILS PROGRAM
JOB NUMBER: 10805-827-8350
LOCATION: SW CORNER OF NDA

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/22	SS-1	4	10	14	20		Brown slightly pebbly slightly clayey SILT; damp, hard. (Hnu:<0.1ppm, beta/gamma:BB) (ML)
	24/24	SS-2	17	36	50	74		Brown and gray pebbly slightly clayey SILT; damp, hard. (Hnu:<0.1ppm, beta/gamma:BB) (ML)
	12/10	DM-1						Brown pebbly slightly clayey SILT; damp. (Hnu:<0.1ppm, beta/gamma:BB) (ML)
5	12/10	DM-2						Brown and gray pebbly clayey SILT; damp. (Hnu:<0.1ppm, beta/gamma:BB) (ML)
	24/24	SS-3	9	17	22	74		Gray and brown silty CLAY, with orange silt locally; damp, very stiff. (1.4') (CL)
	24/23	SS-4	4	7	10	12		Gray silty CLAY; damp, very stiff. (0.6') (Hnu:<0.1ppm, beta/gamma:BB) (CL) Brown gray slightly silty plastic CLAY; moist, medium stiff. (CL) (Hnu:<0.1ppm, beta/gamma:BB)
10	24/23	SS-5	4	6	8	10		Brown gray slightly pebbly plastic CLAY; saturated, medium stiff. (CL) (Hnu:<0.1ppm, beta/gamma:BB)
	24/23	SS-6	10	13	17	20		As above, but moist to wet.
	12/10	DM-3						Gray slightly pebbly clayey SILT; moist. (Hnu:<0.1ppm, beta/gamma:BB) (ML)
15	24/23	SS-7	7	12	15	20		Brown gray pebbly silty CLAY; saturated, stiff. (Hnu:<0.1ppm, beta/gamma:BB) (CL) Gray brown pebbly sandy silty CLAY; wet, very stiff. (0.6') (CL) Gray brown clayey SILT; saturated, very stiff. (1.3') (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	24/19	SS-8	14	18	17	19		As above. (0.6') Brown gray pebbly silty CLAY; wet, stiff. (CL) (Hnu:<0.1ppm, beta/gamma:BB)
	24/23	SS-9	4	9				

CLASSIFICATION: VISUAL (Modified Burmister) and USCS

METHOD OF SAMPLING: 140 LB. HAMME
3" O.D. SPLITSPOON SAMPLER

SHEET 2 OF: 2 DATE STARTED: 10/18/93 DATE FINISHED: 10/19/93 DRILLER:BUFFALO DRILLING CO. INSPECTOR: ROBERT H. TEIFKE	BORING LOG DAMES & MOORE	BOREHOLE NO.: 41 SURFACE ELEVATION (FT.): 1,386.70 NORTHING: 891,669.37 EASTING: 481,386.24
PROJECT: 1993 SOILS PROGRAM JOB NUMBER: 10805-827-8350		LOCATION: SW CORNER OF NDA

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6 12 / 18	BLOWS ON SAMPLER 6 / 12 18 / 24	LITHOLOGY	DESCRIPTION / NOTES
			14	17		
						AUGERED TO 19 FT. SAMPLED TO 21 FT. BOREHOLE BACKGROUTED TO GRADE BACKGROUND READINGS: Hnu = <0.1ppm beta/gamma = 60-70cpm
25						
30						
35						

CLASSIFICATION: VISUAL (Modified Burmister) and USCS

METHOD OF SAMPLING: 140 LB. H ER
3" O.D. SPLITSPOON SAMPLER

SHEET 1 OF: 2 DATE STARTED: 12/7/93 DATE FINISHED: 12/7/93 DRILLER: BUFFALO DRILLING CO. INSPECTOR: ROBERT H. TEIFKE	BORING LOG DAMES & MOORE	BOREHOLE NO.: BH-42 SURFACE ELEVATION (FT.): 1,371.67 NORTHING: 892,037.51 EASTING: 480,382.67
PROJECT: 1993 SOILS PROGRAM JOB NUMBER: 10805-827-8350		LOCATION: NORTH NOA

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/20	SS-1	6	11	13	16		Dark brown SILT, slightly clayey, with broken rock throughout and root mass in uppermost 0.2'; wet. (ML) Orange brown mottled gray moderately pebbly clayey SILT; damp, dense. (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	12/10	DM-1						Orange brown pebbly silty CLAY; damp. (CL) Orange brown moderately pebbly silty CLAY; dry to damp. (1.3') Gray brown moderately pebbly silty CLAY; dry to damp. (0.2') (Hnu:<0.1ppm, beta/gamma:BB) (CL)
	24/18	SS-2	7	17	29	34		Brown gray silty CLAY, slightly pebbly; moist. (CL)
5	12/12	DM-2						
	12/12	DM-3						Brown gray clayey SILT, moderately pebbly; moist. (ML)
	24/19	SS-3	3	9	17	17		Brown gray clayey SILT, moderately pebbly; moist to wet, dense. (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	12/12	DM-4						
10	24/20	SS-4	4	10	12	13		Brown gray silty CLAY, slightly to moderately pebbly, with pockets brown orange clayey sand; wet. (CL) (Hnu:<0.1ppm, beta/gamma:BB) Brown gray clayey SILT to very fine SAND, with abundant fine (2-8mm) pebbles; sand:clay decreases downward; wet. (Hnu:<0.1ppm, beta/gamma:BB) (ML/SM)
	24/22	SS-5	6	10	13	16		Brown gray pebbly clayey SILT, with seams and pockets gray brown fine sand and coarse to very coarse sand, shale fragments common; moist to wet, dense, friable. (ML) (Hnu:<0.1ppm, beta/gamma:BB)
	12/12	DM-5						Brown gray clayey SILT, slightly to moderately pebbly; moist to wet, foliated. (ML)
15	12/12	DM-6						As above. (Hnu:<0.1ppm, beta/gamma:BB)
	24/24	SS-6	6	10	14	19		Brown gray silty CLAY, with abundant subrounded granules and few subangular pebbles; moist to wet, foliated. (Hnu:<0.1ppm, beta/gamma:BB) (CL)
	24/24	SS-7	5	10	16	17		As above. (Hnu:<0.1ppm, beta/gamma:BB)

CLASSIFICATION: VISUAL (Modified Burmister) and USCS

METHOD OF SAMPLING: 140 LB. HAMMER
3" O.D. SPLITSPOON SAMPLER

SHEET 2 OF: 2 DATE STARTED: 12/7/93 DATE FINISHED: 12/7/93 DRILLER:BUFFALO DRILLING CO. INSPECTOR: ROBERT H. TEIFKE	BORING LOG DAMES & MOORE	BOREHOLE NO.: BH- SURFACE ELEVATION (FT.): 1,371.67 NORTHING: 892,037.51 EASTING: 480,382.67
PROJECT: 1993 SOILS PROGRAM JOB NUMBER: 10805-827-8350		LOCATION: NORTH NDA

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	12/12	DM-7						As above. (Hnu:<0.1ppm, beta/gamma:BB)
	24/24	SS-8	5	10	16	19		As above, but with rare small lenses coarse well sorted sand. (Hnu:<0.1ppm, beta/gamma:BB)
	24/22	SS-9	3	9	14	19		As above. (Hnu:<0.1ppm, beta/gamma:BB)
25	24/24	SS-10	6	12	17	21		
30								AUGERED TO 25 FT. SAMPLED TO 27 FT. BOREHOLE BACKGROUTED TO GRADE BACKGROUND READINGS: Hnu = <0.1ppm beta/gamma = 40cpm
35								

CLASSIFICATION: VISUAL (Modified Burmister) and USCS

METHOD OF SAMPLING: 140 LB. HAMMEI
3" O.D. SPLITSPOON SAMPLER

Appendix D

Boring Logs and Construction Diagrams for the Weathered Till, Unweathered Till, and the Kent Recessional Sequence

THIS PAGE INTENTIONALLY LEFT BLANK

SHEET 1 OF: 4 DATE STARTED: 1/29/90 DATE FINISHED: 2/2/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0901 SURFACE ELEVATION: 1,390.18 NORTHING 891,417.11 EASTING 481,561.55
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-23		LOCATION: S.W.CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/12	SS-1	5	10	10	9		Organic layer w/grass and TOPSOIL. (OL)
	24/18	SS-2	5	7	12	11		Dry, light brownish-gray SILT, some to little clay, trace fine to medium subangular gravel (black and green shale), trace very fine sand. (ML)
5	24/1	SS-3	5	7	5	7		
	24/18	SS-4	3	3	6	8		Damp, brown to gray, CLAY and SILT, trace fine subangular gravel (black shale). (ML/CL)
	24/6	SS-5	3	5	7	13		Damp, gray, CLAY, some silt, trace fine to medium subangular gravel (black shale), trace fine sand. (CL)
10	24/18	SS-6	2	5	11	16		
	24/18	SS-7	4	5	9	12		
15	24/19	SS-8	4	6	8	9		Wet to saturated, gray, CLAY, some silt, trace fine gravel, stiff, slightly plastic. (CL)
	24/19	SS-9	3	3	6	7		
	24/12	SS-10	3	6	8	11		
20	24/11	SS-11	3	5	8	7		
	24/17	SS-12	5	6	5	7		
25	24/20	SS-13	1	4	6	10		Saturated, gray, CLAY, little to some silt, trace fine to coarse subangular gravel. (CL)
	24/18	SS-14	5	5	8	8		
	24/20	SS-15	2	5	8	10		
30	24/20	SS-16	3	4	8	9		
	24/10	SS-17	4	9	12	15		Saturated, gray, SILT and CLAY, trace fine to medium subangular gravel. (CL)
35	24/21	SS-18	3	7	10	17		Saturated, gray, SAND, some silt, trace clay - 3 inch. (SM)
	24/17	SS-19	6	5	11	17		Wet to saturated, gray, CLAY and SILT, trace fine to medium subangular gravel, trace very fine sand. (CL)
	24/12	SS-20	4	6	9	10		

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 2 OF: 4 DATE STARTED: 1/29/90 DATE FINISHED: 2/2/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0901 SURFACE ELEVATION: 1,390.18 NORTHING 891,417.11 EASTING 481,561.55
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-23		LOCATION: S.W.CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/18	SS-21	5	7	12	13		
	24/19	SS-22	4	6	11	13		
45	24/15	SS-23	5	6	12	14		Moist, gray, SILT and CLAY, trace to little fine to medium subangular gravel, trace very fine to fine sand. (CL)
	24/22	SS-24	6	10	13	17		
	24/20	SS-25	8	9	13	18		Dry to moist, brownish-gray, SILT, trace to little fine to medium subangular to subrounded gravel, trace to little clay, trace very fine sand, mottled orange and yellow. (ML)
50	24/21	SS-26	4	7	9	15		
	24/23	SS-27	7	9	11	14		
55	24/18	SS-28	6	8	10	15		
	24/17	SS-29	7	12	14	18		
	24/24	SS-30	5	8	11	12		Moist, gray, CLAY and SILT, trace fine to medium subangular gravel (black and green shale), trace very fine sand. (CL)
60	24/18	SS-31	4	8	12	17		
	24/22	SS-32	12	10	21	30		
65	24/24	SS-33	10	24	16	12		Dry, brownish-gray, SILT, trace to little very fine to fine sand, trace to little clay, trace fine to medium subangular to subrounded gravel, yellowish mottling. (CL)
	24/21	SS-34	6	5	12	16		
	24/24	SS-35	6	7	13	15		
70	24/24	SS-36	6	13	13	20		Damp, brownish-gray, SILT, little to some clay, trace fine to medium subangular to subrounded gravel (variable). (ML/CL)
	24/22	SS-37	7	13	24	24		
75	24/13	SS-38	11	14	26	25		
	24/8	SS-39	17	16	27	30		
	24/5	SS-40	–	19	19	26		Moist, brown to gray, CLAY and SILT, trace fine to medium gravel, trace very fine sand. (CL)

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 3 OF: 4 DATE STARTED: 1/29/90 DATE FINISHED: 2/2/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0901 SURFACE ELEVATION: 1,390.18 NORTHING 891,417.11 EASTING 481,561.55
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-23		LOCATION: S.W.CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/24	SS-41	6	15	20	24		Moist to saturated, gray, SILT, little very fine sand, trace to no clay. (ML/SM)
	24/24	SS-42	8	14	17	26		
85	24/24	SS-43	8	14	26	27		
	24/18	SS-44	8	18	26	54		Moist, gray, SILT, little clay, trace fine to coarse subangular to subrounded gravel, trace very fine sand. (CL)
	24/18	SS-45	10	19	27	45		
90	24/21	SS-46	5	8	24	30		
	24/24	SS-47	17	23	25	32		Dry, grayish-brown, fine to medium GRAVEL and fine to coarse SAND, some silt, trace clay, dense. (GM)
95	24/18	SS-48	8	20	25	36		Dry, brownish-gray, SILT, trace to little fine to coarse subangular gravel, trace clay, trace fine sand. (ML)
	24/3	SS-49	18	28	50	27		
	24/24	SS-50	10	12	16	22		
100	24/18	SS-51	6	14	19	40		
	24/24	SS-52	8	15	23	42		Dry, brownish-gray, SILT, trace fine to medium subangular gravel, trace very fine sand. (ML)
105	24/19	SS-53	wor	16	18	23		Dry, gray, SILT, trace very fine sand, trace to no clay. (ML)
	24/18	SS-54	32	30	30	35		
	24/18	SS-55	8	9	13	20		
110	24/24	SS-56	15	15	25	32		Moist, gray, SILT, trace very fine sand. (ML/SM)
	24/20	SS-57	12	14	22	32		
115	24/24	SS-58	5	6	11	13		
	24/24	SS-59	8	9	14	18		Dry to moist, gray, SILT, trace clay. (ML/SM)
	24/24	SS-60	5	9	13	16		

CLASSIFICATION: VISUAL (Modified Burmister),USCS METHOD OF SAMPLING: ASTM D1586-84,

SHEET 4 OF: 4 DATE STARTED: 1/29/90 DATE FINISHED: 2/2/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0901 SURFACE ELEVATION: 1,390.18 NORTHING 891,417.11 EASTING 481,561.55
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-23		LOCATION: S.W.CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/24	SS-61	10	12	13	27		Saturated, reddish-brown to gray, fine to medium SAND, trace silt, trace clay. (ML/SM)
	24/20	SS-62	wor	wor	4	5		
125	24/24	SS-63	wor	5	10	15		Wet to saturated, gray, SILT, some fine to medium sand, trace clay, soft. (ML/SM)
	24/22	SS-64	wor	6	14	24		
	24/20	SS-65	wor	wor	13	16		
130	24/18	SS-66	5	12	14	16		Saturated, gray, fine to coarse SAND, trace fine to medium subangular gravel, trace clay trace silt. (GM)
	24/24	SS-67	5	8	6	8		
135	24/24	SS-68	10	11	9	8		Saturated, gray, SILT, some very fine to fine sand, trace fine to medium subangular to subrounded gravel, trace clay. (ML/SM)
	24/24	SS-69	10	13	10	6		
140								AUGERED TO 138 FT. SAMPLED TO 138 FT. THE WATER LEVEL WAS MEASURED AT 122 FT.B.G.S.- WHILE THE BOTTOM OF THE AUGERS WERE 124.0 FT. B.G.S.. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
145								
150								
155								

CLASSIFICATION: VISUAL (Modified Burmister),USCS METHOD OF SAMPLING: ASTM D1586-84,

SHEET 1 OF: 4 DATE STARTED: 02/07/90 DATE FINISHED: 02/09/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0902 SURFACE ELEVATION: 1,387.92 NORTHING 891,638.89 EASTING 481,411.69
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NW. CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/5	SS-1	2	1	5	9		Organic layer w/grass
	24/12	SS-2	8	15	16	15		Moist, brownish-gray, SILT, some clay, trace fine to medium subangular gravel, trace very fine sand, stiff, slightly plastic, oxidized. (ML/CL)
5	24/18	SS-3	7	11	14	14		
	24/24	SS-4	7	18	17	19		Moist, brownish-gray, SILT, some clay, trace fine to medium subangular to subrounded gravel, trace very fine sand, stiff, trace orange staining. (ML/CL)
	24/20	SS-5	4	7	17	19		Moist, brownish-gray, SILT, some clay, trace fine to medium subangular to subrounded gravel, trace fine sand, stiff, trace orange staining around black shale. (ML/CL)
10	24/24	SS-6	4	7	15	17		
	24/18	SS-7	5	8	17	19		Moist, gray, SILT and CLAY, little fine sand, little fine to coarse subangular to subrounded gravel, stiff, slightly plastic. (CL)
15	24/18	SS-8	5	12	18	21		Small gravelly SAND lens - possible fracture.
	24/24	SS-9	7	7	17	14		Moist, gray, silty fine SAND, little fine to medium subangular gravel, trace clay. (SM/ML)
	24/22	SS-10	2	6	8	10		Moist, gray, SILT, some clay, trace very fine sand, trace fine gravel, medium stiff, medium plasticity. (CL)
20								
25	24/18	SS-11	5	7	8	11		Moist, gray, SILT, some clay, trace fine to coarse subangular gravel, trace very fine to fine sand, medium stiff, medium plasticity. (CL)
30	24/18	SS-12	5	6	9	9		Moist, gray, CLAY, some silt, trace fine to medium subangular gravel, trace fine to very fine sand, medium stiff, plastic. (CL)
35	24/22	SS-13	3	10	11	16		Moist, gray, SILT, some clay, trace fine to coarse subangular gravel (limestone, shale, siltstone), trace very fine sand. (ML/CL)

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 2 OF: 4 DATE STARTED: 02/07/90 DATE FINISHED: 02/09/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0902 SURFACE ELEVATION: 1,387.92 NORTHING 891,638.89 EASTING 481,411.69
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NW. CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/20	SS-14	5	9	11	15		Moist, gray, CLAY, some silt, trace fine to medium subangular gravel. (CL)
45	24/19	SS-15	6	9	13	17		Moist, gray, CLAY, some silt, trace fine to medium subangular gravel, trace orange and green mottling. (CL)
50	24/6	SS-16	10	16	20	32		Moist, brownish-gray, sandy SILT, some fine to coarse subangular gravel (shale, limestone), some clay, stiff to hard, trace mottling. (ML/CL)
55	24/24	SS-17	6	11	19	21		Moist, brownish-gray, very fine sandy SILT, some clay, little fine to coarse subangular to subrounded gravel, (trace exotics), trace orange-yellowish and green mottling, stiff. (ML/CL)
60	24/24	SS-18	6	15	17	20		Moist, gray, SILT, some clay, trace to little fine to medium subangular gravel (trace exotics), trace fine sand, stiff to hard. (CL)
65	24/24	SS-19	5	5	9	10		Moist, gray, SILT, some to little clay, trace to little fine sand. (ML)
	24/24	SS-20	5	7	9	11		Moist to wet, gray, CLAY and SILT, trace fine sand. (ML)
70	24/21	SS-21	5	8	12	13		
	24/24	SS-22	4	10	13	14		
75	24/24	SS-23	4	7	11	12		Moist to wet, gray, SILT and CLAY, trace very fine sand. (ML)

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 3 OF: 4 DATE STARTED: 02/07/90 DATE FINISHED: 02/09/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0902 SURFACE ELEVATION: 1,387.92 NORTHING 891,638.89 EASTING 481,411.69
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NW. CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/24	SS-24	9	14	19	22		Damp, brownish-gray, SILT, little clay, little fine to medium subangular to subrounded gravel (trace exotics), trace very fine sand, trace orange-yellow and green mottling, stiff to hard. (ML/CL)
85	24/20	SS-25	19	39	32	32		Dry, gray, SILT, trace to little fine to coarse subangular gravel (limestone, shale), weathered, green mottling. (ML)
90	24/24	SS-26	14	17	19	20		Dry to moist, gray, SILT, trace very fine sand. (ML/SM)
95	24/24	SS-27	15	25	35	52		Dry, gray, SILT, trace very fine sand, trace clay. (ML/SM)
100	24/24	SS-28	20	27	30	38		
105	24/24	SS-29	24	36	36	40		Dry, gray, SILT, trace very fine sand, trace clay. (ML/SM)
110	24/24	SS-30	14	18	24	30		Dry to damp, gray, SILT, trace very fine sand, trace clay, trace fine to medium subangular to subrounded gravel, lamination noted throughout sequence. (ML)
115	24/18	SS-31	23	24	19	18		Moist to wet, gray, SILT, little very fine sand, trace to little clay. (ML)

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 4 OF: 4 DATE STARTED: 02/07/90 DATE FINISHED: 02/09/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0902 SURFACE ELEVATION: 1,387.92 NORTHING 891,638.89 EASTING 481,411.69
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NW. CORNER OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/24	SS-32	5	5	6	8		Saturated, grayish-black to orange, fine to coarse SAND, trace silt. (SM)
	24/24	SS-33	6	8	9	17		Saturated, gray, SILT and CLAY, little very fine sand, trace fine gravel (gradational). (ML/CL)
125	24/21	SS-34	.5wor	10	20	40		
	24/18	SS-35	28	38	100/.4			Wet, gray, SILT, little fine to coarse sand, little clay, trace fine to medium subangular gravel. (ML)
	24/24	SS-36	80	45	110	100/.2		Saturated, gray, fine to coarse sandy SILT, little fine to coarse subangular gravel, trace clay. (ML/SM)
130								Augered to 128.0 ft. Sampled to 130.0 ft. The water level was measured at 110.5 ft. b.g.s - While the bottom of the augers were 128.0 ft. b.g.s.. No radiation above background was detected by R/S.
135								
140								
145								
150								
155								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 1 OF: 4 DATE STARTED: 1/18/90 DATE FINISHED: 1/26/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0903dl SURFACE ELEVATION: 1378.27 NORTHING 892031.57 EASTING 481611.67
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/18	SS-1	2	2	3	10		Organic layer w/grass
	24/12	SS-2	10	8	6	12		Saturated, brownish-gray, SILT, some clay, trace fine fine sand, trace fine gravel, oxidized. (ML)
5	24/18	SS-3	5	8	13	14		Dry, brownish-gray, SILT, some clay, trace fine to medium subangular gravel, mottled. (ML)
	24/22	SS-4	8	12	15	16		Dry, brownish-gray, silty CLAY, trace fine to medium subangular gravel. (ML)
	24/24	SS-5	7	11	13	14		Dry, gray, CLAY, some silt, trace fine gravel. (CL)
10	24/11	SS-6	4	6	9	12		
	24/18	SS-7	4	7	10	14		Dry, gray, CLAY, some silt, trace fine gravel. (CL)
15	24/20	SS-8	5	6	8	12		
	24/24	SS-9	7	10	14	20		
	24/18	SS-10	3	8	7	9		
20	24/20	SS-11	3	3	6	8		
	24/24	SS-12	3	5	7	11		
25	24/20	SS-13	3	6	9	12		Dry, gray, CLAY, some silt, trace fine to medium subangular gravel. (CL)
	24/24	SS-14	3	8	11	13		
	24/24	SS-15	3	7	10	15		
30	24/24	SS-16	3	6	10	15		Dry, gray, CLAY, some silt, trace fine to medium subangular gravel, trace fine sand. (CL)
	24/24	SS-17	3	6	8	12		
35	24/24	SS-18	3	7	9	14		
	24/24	SS-19	4	6	10	13		
	24/24	SS-20	1	6	11	10		

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84

SHEET 2 OF: 4 DATE STARTED: 1/18/90 DATE FINISHED: 1/26/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0903dl SURFACE ELEVATION: 1378.27 NORTHING 892031.57 EASTING 481611.67
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/18	SS-21	2	8	14	14		Moist, gray, CLAY, little to some silt, trace fine sand, trace fine to medium subangular gravel. (CL)
	24/18	SS-22	4	9	6	12		
45	24/20	SS-23		4	15	15		
	24/24	SS-24	8	10	17	21		
	24/24	SS-25	wor	10	16	17		
50	24/24	SS-26	5	7	12	16		
	24/24	SS-27	4	8	13	35		
55	24/20	SS-28	6	11	13	20		Moist, gray, CLAY, some silt, trace fine to medium subangular to subrounded gravel (exotics), trace very fine sand. (CL)
	24/24	SS-29	6	10	16	18		
	24/20	SS-30	6	9	16	18		
60	24/24	SS-31	5	9	14	22		
	24/24	SS-32	8	11	16	16		
65	24/24	SS-33	7	12	20	10		
	24/24	SS-34	6	4	18	6		Moist, gray, CLAY and SILT, trace fine to medium subangular to subrounded gravel, trace very fine sand. (CL)
	24/18	SS-35	5	8	15	14		
70	24/24	SS-36	7	8	14	21		
	24/24	SS-37	6	9	14	20		
75	24/24	SS-38	7	8	15	20		
	24/24	SS-39	11	10	15	20		
	24/24	SS-40	4	10	16	17		Moist, gray, CLAY, some to little silt, trace fine to medium subangular gravel. (CL)

CLASSIFICATION: VISUAL (Modified Burmister),USCS METHOD OF SAMPLING: ASTM D1586-84

SHEET 3 OF: 4 DATE STARTED: 1/18/90 DATE FINISHED: 1/26/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0903dl SURFACE ELEVATION: 1378.27 NORTHING 892031.57 EASTING 481611.67
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/24	SS-41	4	9	12	14		Moist to wet, gray, CLAY, some silt, trace to little sand, trace fine subangular gravel. (CL)
	24/24	SS-42	3	7	12	20		
85	24/24	SS-43	5	7	10	12		
	24/24	SS-44	10	30	30	27		Wet, gray, SILT, little clay, trace very fine sand. (ML)
	24/24	SS-45	10	15	16	17		
90	24/24	SS-46	9	6	16	18		Wet, gray, SILT, some very fine sand, trace clay. (SM/ML)
	24/24	SS-47	6	12	14	17		
95	24/24	SS-48	9	9	9	14		
	24/18	SS-49	11	34	41	56		Moist, light gray, fine SAND, little silt. (SM)
	24/18	SS-50	11	16	32	43		
100	24/24	SS-51	wor	8	11	21		
	24/24	SS-52	8	11	13	21		Saturated, gray, SILT, little to some fine sand, little clay. (ML)
105	24/24	SS-53	7	13	14	22		
	24/24	SS-54	6	11	12	15		Moist, gray, SILT and CLAY, trace fine to medium subangular to subrounded gravel, trace very fine sand. (CL)
	24/24	SS-55	wor	wor	11	16		
110	24/18	SS-56	7	11	18	20		Moist to wet, gray, SILT, some clay, trace to little fine to medium subangular gravel (black and green shale), stiff, slightly plastic. (CL)
	24/24	SS-57	8	13	20	24		
115	24/24	SS-58	5	11	13	9		Saturated, gray, SILT, some to little clay, trace very fine sand. (CL)
	24/24	SS-59	4	10	12	11		Saturated, gray SILT, little clay, trace very fine sand. (SM/ML)
	24/24	SS-60	3	8	12	20		

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84

SHEET 4 OF: 4 DATE STARTED: 1/18/90 DATE FINISHED: 1/26/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0903dl SURFACE ELEVATION: 1378.27 NORTHING 892031.57 EASTING 481611.67

PROJECT: WVDP DOE/RCRA wells
JOB NUMBER: 10805-410-023

LOCATION: NORTH OF NDA
SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/24	SS-61	5	11	14	19		Saturated, gray, SILT, trace to little clay, trace very fine sand. (SM)
	24/18	SS-62	11	23	33	40		Saturated, grayish-black, fine to medium subrounded GRAVEL and fine to coarse SAND, trace silt, trace clay. (GC)
125	24/18	SS-63	.2/25					
	24/24	SS-64	69	41	49	40		Saturated, gray, fine to medium GRAVEL, some to little fine to coarse sand, trace silt. (GC)
	24/18	SS-65	14	15	19	23		Moist, gray, SILT and CLAY, trace fine to medium subangular gravel, stiff, slightly plastic. (CL)
130								AUGERED TO 128 FEET. SAMPLED TO 130 FEET. WATER MEASURED AT 100.5 FT. - CASING AT 122 FT. B.G.S. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
135								
140								
145								
150								
155								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84

SHEET 1 OF: 1 DATE STARTED: 3/15/90 DATE FINISHED: 3/15/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0904 SURFACE ELEVATION: 1,378.46 NORTHING 892,033.32 EASTING 481,621.26
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6 12 / 18	BLOWS ON SAMPLER 6 / 12 18 / 24	LITHOLOGY	DESCRIPTION / NOTES
						Organic layer w/grass and TOPSOIL. (OL)
						Dry, brownish-gray, SILT, some clay, trace fine gravel, trace fine sand, trace mottling, oxidized. (ML)
5						
						Dry to damp, gray, CLAY, some silt, trace fine to medium subangular gravel (black shale), stiff, slightly plastic. (CL)
10						
15						
20						
25						
						AUGERED TO 26 FT. NO SAMPLES TAKEN DESCRIPTION FROM BORING 0903. THE WATER LEVEL WAS MEASURED AT 25.5 FT. B.G.S.- WHILE THE BOTTOM OF THE AUGRES WERE 26.0 FT. B.G.S.. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
30						
35						

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: SEE 0903DL

SHEET 1 OF: 1 DATE STARTED: 03/26/90 DATE FINISHED: 03/26/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0905 SURFACE ELEVATION: 1,374.07 NORTHING 892,097.98 EASTING 481,705.78
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/16	SS-1	3	6	10	10		Organic layer w/grass and TOPSOIL. (OL)
	24/21	SS-2	4	6	7	10		Damp, light rusty brown, fine SAND and GRAVEL, some silt, trace clay. (SM)
5	24/16	SS-3	5	10	14	16		Damp to dry, medium brown, CLAY, little silt, trace gravel, trace sand. (ML/CL)
	24/15	SS-4	11	20	21	14		Wet, brown, SAND and fine to coarse angular GRAVEL, some clay, trace silt. (GM)
	24/12	SS-5	9	15	14	9		Wet, brown, coarse, SAND, some fine to coarse gravel, little clay. (GM)
10	24/16	SS-6	5	20	18	11		
	24/21	SS-7	20	21	18	13		Saturated, brown, fine to medium SAND, some clay, little fine to medium rounded gravel. (GM)
15	24/18	SS-8	9	10	12	8		Moist, gray, CLAY, little silt, little fine to medium rounded gravel. (CL)
	24/18	SS-9	8	14	12	8		Wet, gray, coarse SAND, little fine to coarse gravel, trace clay. (SM)
	24/18	SS-10	9	15	15	16		Wet, gray, fine to medium GRAVEL, trace to little clay. (GM)
20	24/15	SS-11	8	9	13	15		Wet, dark gray, fine to medium GRAVEL, some medium to coarse sand, trace clay. (GM)
	24/16	SS-12	5	6	9	12		Moist, gray, CLAY, little silt, trace sand, trace gravel. (CL)
25								AUGERED TO 22.0 FT. SAMPLED TO 24.0 FT. THE WATER LEVEL WAS MEASURED AT 10.8 FT. B.G.S.- AFTER COMPLETION OF WELL INSTALLATION. NO RADIATION WAS DETECTED ABOVE BACKGROUND BY R/S
30								
35								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84

SHEET 1 OF: 2 DATE STARTED: 11/22/89 DATE FINISHED: 11/27/89 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0906A SURFACE ELEVATION: est. 1381.00 NORTHING est. 891901.35 EASTING est. 481416.24
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/23	SS-1	1	3	6	11		Organic layer w/grass and TOPSOIL. (OL)
	24/24	SS-2	10	44	12	8		Damp, medium brown, SILT, little fine sand, trace clay. (ML)
5	24/24	SS-3	8	9	11	13		Damp, medium brown, silty SAND and GRAVEL, trace clay. (GM)
	24/24	SS-4	5	8	12	12		Dry, dark brown, SILT and CLAY, little angular gravel. (ML)
10	24/23	SS-5	4	6	7	8		Damp, brownish, SILT and CLAY, trace fine to medium subangular to subrounded gravel, trace fine sand. (ML)
	24/24	SS-6	3	3	4	5		Moist, dark gray, CLAY, trace gravel. (CL)
	24/23	SS-7	3	2	3	5		
15	24/24	SS-8	2	4	5	6		
	24/19	SS-9	2	3	5	5		
20	24/20	SS-10	1	3	4	7		Moist, dark gray, CLAY and SILT, trace gravel. trace fine sand. (CL)
	24/12	SS-11	2	3	5	7		
	24/17	SS-12	0	0	2	8		
25	24/20	SS-13	2	4	6	13		Damp, silty SAND lens - 1 inch.
	24/23	SS-14	2	3	4	6		
30	24/21	SS-15	3	4	6	7		Damp, gray, CLAY and SILT, trace fine gravel. (CL)
	24/24	SS-16	3	4	7	11		
	24/24	SS-17	5	3	5	7		
35	24/18	SS-18	1	3	6	18		Damp, gray, CLAY and SILT, trace fine gravel, trace very fine sand. (CL)
	24/23	SS-19	4	5	6	7		
	24/22	SS-20	0	2	7	11		

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 2 OF: 2 DATE STARTED: 11/22/89 DATE FINISHED: 11/27/89 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0906A SURFACE ELEVATION: est. 1381.00 NORTHING est. 891901.35 EASTING est. 481416.24
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/6	SS-21	5	10	11	15		
	24/1	SS-22	3	9	16	9		
45	24/23	SS-23	9	20	18	22		Damp, gray, CLAY and SILT, trace gravel, trace fine sand. (CL)
50								AUGERED TO 44.0 FT. SAMPLED TO 46.0 FT. THE WATER LEVEL WAS MEASURED AT 4.0 FT. B.G.S. - WHILE THE BOTTOM OF THE AUGERS WERE 38.0 FT. B.G.S.. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S. THE BOREHOLE WAS GROUTED TO THE SURFACE UPON COMPLETION. THE COARSE SAND AND GRAVEL (TILL-SAND WAS NOT ENCOUNTERE
55								
60								
65								
70								
75								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 1 OF: 1 DATE STARTED: 11/29/89 DATE FINISHED: 11/29/89 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0906B SURFACE ELEVATION: 1,380.94 NORTHING 891,909.55 EASTING 481,436.79
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
								Organic layer w/grass and TOPSOIL. (OL)
								Damp, medium brown, SILT, little sand, little gravel, trace clay. (ML)
								Damp, medium brown, silty SAND and GRAVEL. (GM)
5								Dry, dark brown, SILT and CLAY, little gravel. (ML)
								Damp, dark gray-brown, SILT and CLAY, trace gravel. (ML)
10								AUGERED TO 10.0 FT. SEE 0906DTA FOR SAMPLING DATA. THE BOREHOLE WAS DRY UPON COMPLETION. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
15								
20								
25								
30								
35								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: SEE 0906DTA

SHEET 1 OF: 1 DATE STARTED: 11/29/89 DATE FINISHED: 11/30/89 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0907 SURFACE ELEVATION: 1,382.78 NORTHING 891,868.58 EASTING 481,411.80
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: NORTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/23	SS-1	2	4	10	7		Organic layer w/grass and TOPSOIL. (OL) Damp, brownish, CLAY and SILT, trace sand. (ML/CL)
	24/18	SS-2	6	11	16	19		Dry, dark brown, CLAY and SILT, little gravel, trace mottling. (CL)
5	24/20	SS-3	6	8	14	13		
	24/23	SS-4	7	11	14	18		Damp, brownish-gray, CLAY and SILT, trace fine to medium gravel. (CL)
	24/18	SS-5	4	8	11	13		
10	24/19	SS-6	2	4	5	7		Moist, dark gray, CLAY and SILT, trace fine to medium gravel. (CL)
	24/24	SS-7	2	3	4	7		
15	24/19	SS-8	2	6	9	12		
	24/20	SS-9	3	5	7	9		Moist, dark gray, CLAY and SILT, trace fine to medium gravel. (CL)
20								AUGERED TO 16.0 FT. SAMPLED TO 18.0 FT. THE BOREHOLE WAS DRY UPON COMPLETION. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
25								
30								
35								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84

SHEET 1 OF: 1 DATE STARTED: 3/22/90 DATE FINISHED: 3/22/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0908 SURFACE ELEVATION: 1,390.34 NORTHING 891,421.13 EASTING 481,558.28
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: SOUTH OF NDA SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6 6 / 12 12 / 18 18 / 24	LITHOLOGY	DESCRIPTION / NOTES
					Organic layer w/grass and TOPSOIL. (OL)
					Dry, brownish-gray, SILT, some to little clay, trace fine to medium subangular gravel, trace fine sand. (CL)
5					Damp, grayish, CLAY and SILT, trace fine subangular gravel (black shale). (CL)
10					Damp, gray, CLAY, some silt, trace fine to medium subangular gravel, trace fine sand. (CL)
15					Wet to saturated, gray, CLAY, little to some silt, trace fine gravel. (CL)
20					
25					AUGERED TO 21 FT. SEE 0901 FOR SAMPLING DATA. THE BOREHOLE WAS DRY UPON COMPLETION. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
30					
35					

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: SEE 0901

SHEET 1 OF: 1 DATE STARTED: 1/7/92 DATE FINISHED: 1/7/92 DRILLER: Empire Soils Inv. Hamburg, NY INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0909 SURFACE ELEVATION: 1,370.34 NORTHING 892,051.49 EASTING 481,758.69
PROJECT: NDA TRENCH JOB NUMBER: 10805-641-6150		LOCATION: NORTH OF NDA TRENCH SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
								Damp to moist, brownish-gray, CLAY, some silt, trace black and rust fine gravel, trace sand, weathered, disturbed, mottled. (OL/CL)
5								
	24/14	SS-1	2	3	4	6		Moist,light brown to brownish-gray, CLAY, little silt, little to trace fine gravel, trace sand. (CL)
10								Moist, dark gray, CLAY, little silt, trace black gravel, laminated, undisturbed. (CL)
	24/16	SS-2	1	4	9	14		Moist, dark gray silty CLAY, trace mostly fine to medium subangular gravel (black and gray shale), trace very fine light gray sand, plastic, medium stiff, no fractures. (CL)
15	24/20	SS-3	4	10	15	9		Damp to moist, dark gray, silty CLAY, trace fine to medium subangular gravel, trace fine to medium sand lenses, stiff, medium plastic. (CL)
20	24/22	SS-4	7	7	9	13		Moist, gray and black, fine to medium SAND - 1 inch. (SM) Moist, gray, CLAY, little silt, trace gravel and sand, laminated with silty partings. (CL)
25								Augered to 23 ft. Sampled from 8 to 22 ft. See 0910DT for sampling details. The borehole was dry upon completion. No radiation detected above background by R/S.
30								
35								

CLASSIFICATION: Visual (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM-D1586-84

SHEET 1 OF: 1 DATE STARTED: 1/6/92 DATE FINISHED: 1/6/92 DRILLER: Empire Soils Hamburg, NY INSPECTOR: FJC, JTB	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 0910 SURFACE ELEVATION: 1,369.72 NORTHING 892,054.70 EASTING 481,765.50
PROJECT: NDA TRENCH JOB NUMBER: 10805-641-6150		LOCATION: NORTH OF NDA TRENCH SSWMU Locale: 9

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/14	SS-1	4	3	8	10		Damp, brown to gray, CLAY, some silt, trace black and rust fine gravel, trace sand, weathered, disturbed. (OL/CL)
	24/9	SS-2	5	6	6	6		
5	24/11	SS-3	1	2	2	3		Moist, brownish-gray, CLAY, little silt, trace black and rust fine gravel, trace sand, mottled. (CL)
	24/2	SS-4	3	2	3	3		
	24/10	SS-5	wor	2	1	3		Moist, light brown, CLAY, little silt, trace fine gravel, trace sand. (CL)
10	24/20	SS-6	2	4	6	7		Moist, brown to dark gray, CLAY, little silt, trace fine gravel (black shale), undisturbed, laminated, medium stiff, slightly plastic. (CL)
	24/21	SS-7	2	5	10	9		Damp, gray, silty CLAY, trace mostly fine to medium subangular gravel (black and gray shale), trace very fine grayish sand, plastic, medium stiff. (CL)
15	24/24	SS-8	2	3	6	7		No fractures observed.
	24/24	SS-9	6	10	14	10		Damp to moist, gray, silty CLAY, trace fine to medium subangular gravel with trace fine to medium sand lenses. (CL)
	24/6	SS-10	4	4	8	9		Moist, dark gray, silty CLAY, trace fine to medium subangular gravel, trace fine sand, plastic. (CL)
20	24/24	SS-11	2	4	8	9		Moist, gray, silty CLAY, trace fine to medium subangular gravel, trace to little fine to medium brownish sand, stiff, core split along grayish sand zone. (CL)
	24/22	SS-12	2	5	10	9		Moist, dark grayish, silty CLAY, trace fine to medium subangular gravel, trace very fine sand, stiff, plastic. (CL)
25	24/24	SS-13	4	7	10	11		
	24/24	SS-14	9	12	18	16		Damp to moist, dark gray, silty CLAY to SILT and CLAY, trace fine to medium subangular gravel, slightly plastic, stiff. (CL)
	24/24	SS-15	2	6	13	19		
30								Augered to 30 ft. Sampled to 30 ft. The borehole was dry upon completion. No radiation detected above background levels by R/S.
35								

CLASSIFICATION: Visual (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM-D1586-84

SHEET 1 OF: 2 DATE STARTED: 5/31/90 DATE FINISHED: 6/4/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 1008b SURFACE ELEVATION: 1,400.26 NORTHING 890,868.78 EASTING 481,169.09
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: WSW OF DRUMCELL SSWMU Locale: 10

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/22	SS-1	1	2	3	7		Organic layer w/grass and TOPSOIL. (OL)
	24/16	SS-2	7	7	7	9		Damp, brown to gray, SILT, little clay, some fine sand, trace subrounded to angular gravel, some orange & green mottling.
5	24/23	SS-3	8	11	11	17		
	24/17	SS-4	5	4	5	7		Moist, gray, CLAY, some gravel (shale fragments) trace sand. (CL)
	24/19	SS-5	6	7	8	9		
10	24/21	SS-6	5	8	10	12		Moist, gray, SILT, some clay, trace fine black gravel, trace sand. (ML/CL)
	24/17	SS-7	4	9	11	12		
15	24/18	SS-8	5	12	14	17		Moist, gray, CLAY, some silt, trace fine to coarse subangular gravel, trace sand. (CL)
	24/15	SS-9	5	10	14	17		
	24/15	SS-10	6	10	12	14		
20	24/15	SS-11	8	10	15	17		Moist, dark gray, CLAY, some silt, trace fine to medium subangular gravel, trace sand. (CL)
	24/16	SS-12	5	11	12	15		
25	24/18	SS-13	7	11	17	16		Moist, dark gray, CLAY, some silt, little fine gravel (black shale), little sand. (CL)
	24/19	SS-14	5	9	10	12		
	24/15	SS-15	8	11	13	18		
30	24/12	SS-16	4	12	17	18		
	24/8	SS-17	12	21	12	19		
35	24/8	SS-18	5	17	100	–		Moist, dark gray, CLAY, some silt, little gravel, trace sand. (CL)
	24/0	SS-19	42	47	22	26		
	24/21	SS-20	16	15	16	21		

CLASSIFICATION: VISUAL (Modified Burmister),USCS METHOD OF SAMPLING: ASTM D1586-84,

SHEET 2 OF: 2 DATE STARTED: 5/31/90 DATE FINISHED: 6/4/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 1008b SURFACE ELEVATION: 1,400.26 NORTHING 890,868.78 EASTING 481,169.09
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: WSW OF DRUMCELL SSWMU Locale: 10

DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6	6 / 12	12 / 18	18 / 24	LITHOLOGY	DESCRIPTION / NOTES
	24/20	SS-21	13	13	14	16		
	24/17	SS-22	5	11	14	15		Moist to saturated, dark gray, CLAY, some silt, trace very fine sand, trace fine gravel. (CL)
45	24/12	SS-23	3	19	59	–		
	24/6	SS-24	99	19	17	14		Wet, gray, CLAY, some silt, little medium angular gravel, trace sand. (CL)
	24/8	SS-25	36	11	8	7		SHALE fragments. Saturated, CLAY and SILT, some layering visible.
50	24/14	SS-26	6	10	13	17		Saturated, gray, CLAY, some silt, some fine to medium green-gray subangular gravel. (CL)
	12/11	SS-26	52	100	–	–		
								SHALE- bedrock.
55	12/8	SS-28	100	100	–	–		
60								AUGERED TO 54 FT. SAMPLED TO 54.5 FT. THE WATER LEVEL WAS MEASURED AT 15.1 FT. B.G.S. - WHILE THE BOTTOM OF THE AUGERS WERE 52.0 FT. B.G.S.. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
65								
70								
75								

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: ASTM D1586-84,

SHEET 1 OF: 1 DATE STARTED: 6/5/90 DATE FINISHED: 6/5/90 DRILLER: Empire Soils Inv. Hamburg, New York INSPECTOR: FJC	BORING LOG DAMES & MOORE	HOLE/WELL NO.: 1008c SURFACE ELEVATION: 1,400.08 NORTHING 890,871.18 EASTING 481,172.30
PROJECT: WVDP DOE/RCRA wells JOB NUMBER: 10805-410-023		LOCATION: WSW DRUMCELL SSWMU Locale: 10

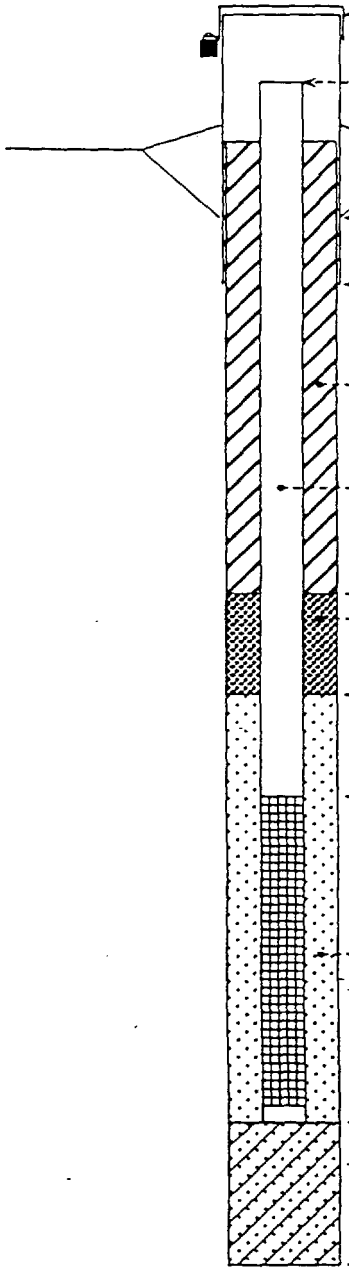
DEPTH IN FEET	INCHES DRIVEN / RECOVERED	SAMPLE TYPE-NO.	BLOWS ON SAMPLER 0 / 6 / 12 / 18	BLOWS ON SAMPLER 6 / 12 / 18 / 24	LITHOLOGY	DESCRIPTION / NOTES
						Organic layer w/grass and TOPSOIL. (OL)
						Damp, brown to gray, SILT, little clay, some fine sand, trace subrounded to angular gravel, some, orange & green mottling.
5						Moist, gray, CLAY, some gravel (shale fragments) trace sand. (CL)
10						Moist, gray, SILT, some clay, trace fine black gravel, trace sand. (ML/CL)
15						Moist, dark gray, CLAY, some silt, trace fine to coarse subangular gravel, trace sand. (CL)
20						AUGERED TO 18 FT. SEE 1008B FOR SAMPLING DETAILS THE WATER LEVEL WAS MEASURED AT 6.4 FT. B.G.S. - WHILE THE BOTTOM OF THE AUGERS WERE 18.0 FT. B.G.S.. NO RADIATION DETECTED ABOVE BACKGROUND BY R/S.
25						
30						
35						

CLASSIFICATION: VISUAL (Modified Burmister),USCS

METHOD OF SAMPLING: SEE 1008B

SHEET 1 OF 1		HOLE/WELL NO.:	0901
DATE STARTED:	1/29/90	SURFACE ELEVATION:	1,390.18
DATE FINISHED:	2/2/90		
DRILLER:	Empire Soils Inv. Hamburg, New York	NORTHING:	891,417.11
FIELD GEOLOGIST:	JTB	EASTING:	481,561.55
PROJECT:	WVDP DOE/RCRA wells	LOCATION:	S.W.CORNER OF NDA
JOB NUMBER:	10805-410-23	SSWMU Locale:	9

Dames & Moore
Overburden
Well Construction



Top of outer casing elevation: 1,392.74 feet MSL
Outer casing stick-up: 2.56 feet
Top of riser elevation: 1,392.53 feet MSL
Riser pipe stick-up: 2.35 feet
Ground surface elevation: 1,390.18 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

Depth of outer casing: 2.44 feet
I.D. of outer casing: 8 inches
Type of outer casing: steel
Type of backfill: cement/bentonite
Volume of backfill: 38.0 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 12-10', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 115.2 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.84 cu.ft.
Depth of sand pack: 118.5 feet

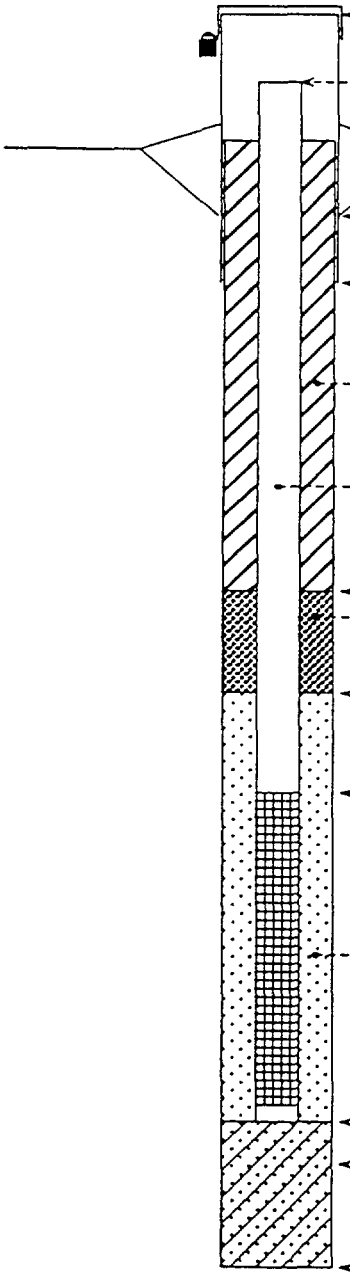
Depth of top of screen: 121 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10', 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 4.25 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 138.42 feet
Depth of bottom of sand pack: 138 feet
Backfill: ottawa flintshot 3.0 SAND
(May or may not be present)
Depth of borehole: 138 feet

SHEET 1 OF 1		HOLE/WELL NO.:	0902
DATE STARTED:	02/07/90	SURFACE ELEVATION:	1,387.92
DATE FINISHED:	02/09/90		
DRILLER:	Empire Soils Inv. Hamburg, New York	NORTHING:	891,838.89
FIELD GEOLOGIST:	JTB	EASTING:	481,411.69
PROJECT:	WVDP DOE/RCRA wells	LOCATION:	NW. CORNER OF NDA
JOB NUMBER:	10805-410-023	SSWMU Locale:	9

Dames & Moore
Overburden
Well Construction



Top of outer casing elevation: 1,390.65 feet MSL
Outer casing stick-up: 2.73 feet
Top of riser elevation: 1,390.28 feet MSL
Riser pipe stick-up: 2.34 feet
Ground surface elevation: 1,387.92 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

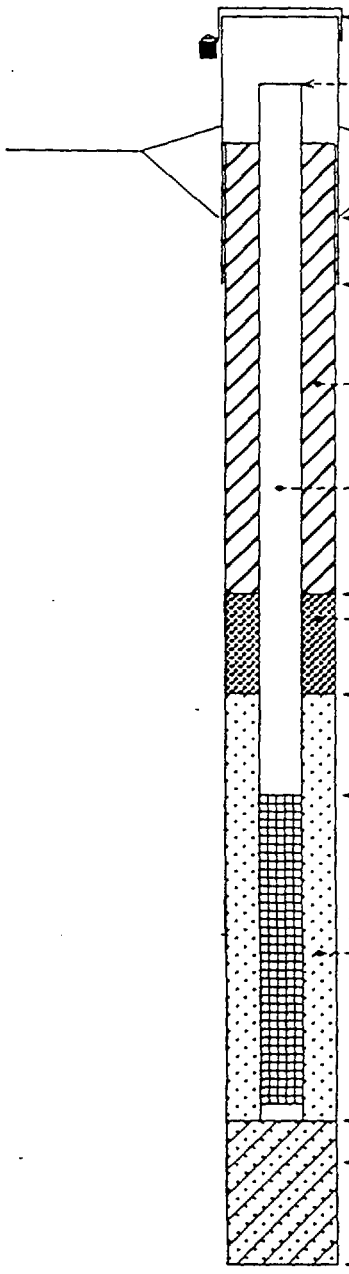
Depth of outer casing: 2.27 feet
I.D. of outer casing: 8 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 30.24 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch.5
Section lengths (from base) 12-10'
I.D. of riser pipe: 2 inches
Depth of seal: 104.0 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 1.82 cu.ft.
Depth of sand pack: 115.0 feet

Depth of top of screen: 118.0 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 2.975 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 128.42 feet
Depth of bottom of sand pack: 128.42 feet
Backfill: none
(May or may not be present)
Depth of borehole: 130 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	0903
DATE STARTED:	1/18/90		SURFACE ELEVATION:	1378.27
DATE FINISHED:	1/26/90			
DRILLER:	Empire Soils Inv. Hamburg, New York		NORTHING:	892031.57
FIELD GEOLOGIST:	JTB		EASTING:	481611.67
PROJECT:	WVDP DOE/RCRA wells		LOCATION:	NORTH OF NDA
JOB NUMBER:	10805-410-023		SSWMU Locale:	9



Top of outer casing elevation: 1380.75 feet MSL
Outer casing stick-up: 2.48 feet
Top of riser elevation: 1380.48 feet MSL
Riser pipe stick-up: 2.21 feet
Ground surface elevation: 1378.27 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

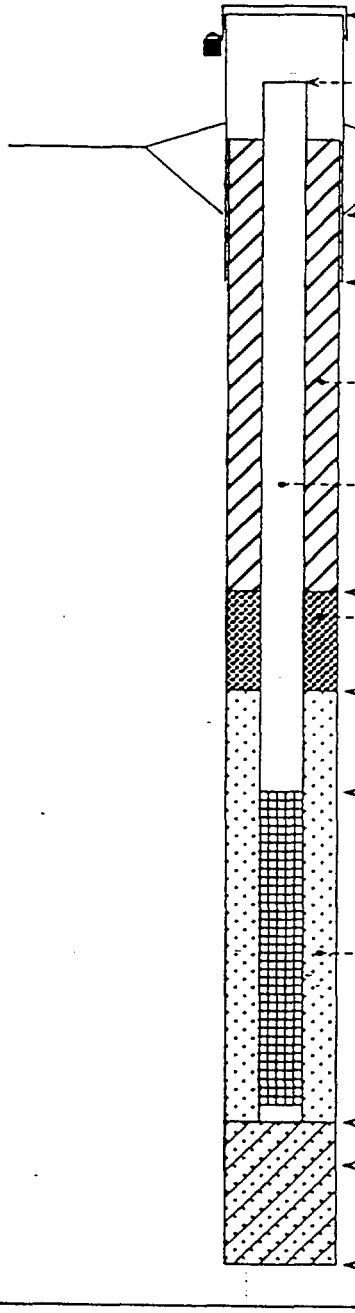
Depth of outer casing: 2.52 feet
I.D. of outer casing: 6 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 21.8 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s flushjoint, sch.5
Section lengths (from base) 12-10'
I.D. of riser pipe: 2 inches
Depth of seal: 108 feet
Type of seal: bentonite pellets/ bentonite slurry
Volume of seal: 1.71 cu.ft.
Depth of sand pack: 115.0 feet

Depth of top of screen: 118.0 feet
Screen: S.S. JOHNSON CHANNEL PACK, 10 SLOT
Section lengths (from base) 1-10', 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 5.1 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 133.42 feet
Depth of bottom of sand pack: 133.5 feet
Backfill: SAND
(May or may not be present)
Depth of borehole: 133.5 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	0904
DATE STARTED:	3/15/90		SURFACE ELEVATION:	1,378.46
DATE FINISHED:	3/15/90			
DRILLER:	Empire Soils Inv. Hamburg, New York		NORTHING:	892,033.32
FIELD GEOLOGIST:	JTB		EASTING:	481,621.28
PROJECT:	WVDP DOE/RCRA wells		LOCATION:	NORTH OF NDA
JOB NUMBER:	10805-410-023		SSWMU Locale:	9



Top of outer casing elevation: 1,380.58 feet MSL
Outer casing stick-up: 2.12 feet
Top of riser elevation: 1,380.31 feet MSL
Riser pipe stick-up: 1.85 feet
Ground surface elevation: 1,378.46 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

Depth of outer casing: 2.88 feet
I.D. of outer casing: 6 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 4.32 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 1-10', 1-5', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 10 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.871 cu.ft.
Depth of sand pack: 13.0 feet

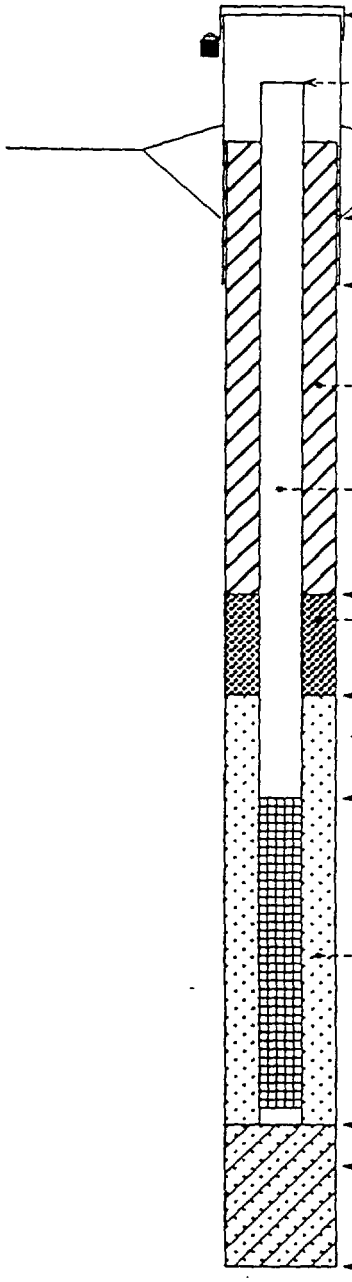
Depth of top of screen: 16.0 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 2.763 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 26.42 feet
Depth of bottom of sand pack: 26.42 feet
Backfill: none
(May or may not be present)
Depth of borehole: 26.42 feet

SHEET 1 OF 1		HOLE/WELL NO.:	0905
DATE STARTED:	03/26/90	SURFACE ELEVATION:	1,374.07
DATE FINISHED:	03/26/90		
DRILLER:	Empire Soils Inv. Hamburg, New York	NORTHING:	892,097.88
FIELD GEOLOGIST:	FJC	EASTING:	481,705.78
PROJECT:	WVDP DOE/RCRA wells	LOCATION:	NORTH OF NDA
JOB NUMBER:	10805-410-023	SSWMU Locale:	9

Dames & Moore
Overburden
Well Construction



Top of outer casing elevation: 1,378.27 feet MSL
Outer casing stick-up: 2.20 feet
Top of riser elevation: 1,378.02 feet MSL
Riser pipe stick-up: 1.95 feet
Ground surface elevation: 1,374.07 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

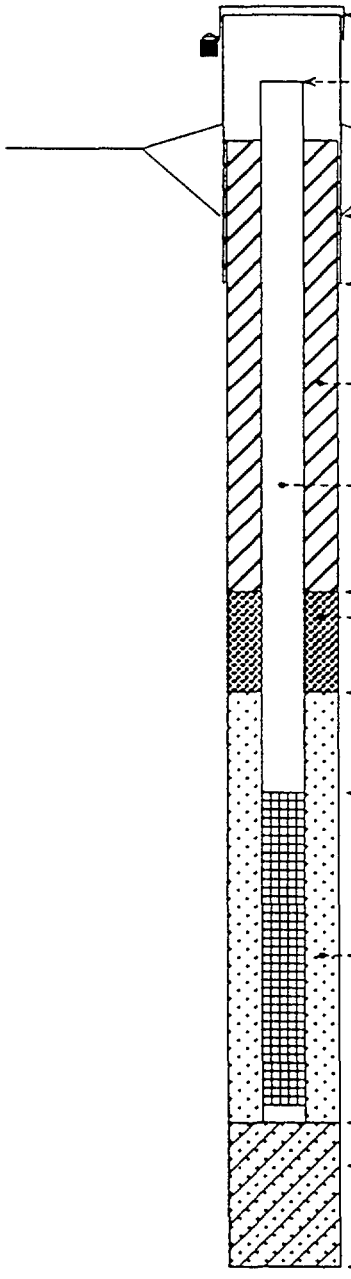
Depth of outer casing: 2.8 feet
I.D. of outer casing: 8 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 4.20 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 1-10', 2-5'
I.D. of riser pipe: 2 inches
Depth of seal: 13.0 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.67 cu.ft.
Depth of sand pack: 15.0 feet

Depth of top of screen: 18.0 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 1.70 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 23.42 feet
Depth of bottom of sand pack: 23.42 feet
Backfill: none
(May or may not be present)
Depth of borehole: 24.0 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	0906B
DATE STARTED:	11/29/89		SURFACE ELEVATION:	1,380.94
DATE FINISHED:	11/29/89			
DRILLER:	Empire Soils Inv. Hamburg, New York		NORTHING:	891,909.55
FIELD GEOLOGIST:	FJC		EASTING:	481,438.79
PROJECT:	WVDP DOE/RCRA wells		LOCATION:	NORTH OF NDA
JOB NUMBER:	10805-410-023		SSWMU Locale:	9



Top of outer casing elevation: 1,384.19 feet MSL
Outer casing stick-up: 3.25 feet
Top of riser elevation: 1,384.25 feet MSL
Riser pipe stick-up: 3.31 feet
Ground surface elevation: 1,380.94 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

Depth of outer casing: 1.75 feet
I.D. of outer casing: 6 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 1.44 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 1-5', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 2.0 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.22 cu.ft.
Depth of sand pack: 3.0 feet

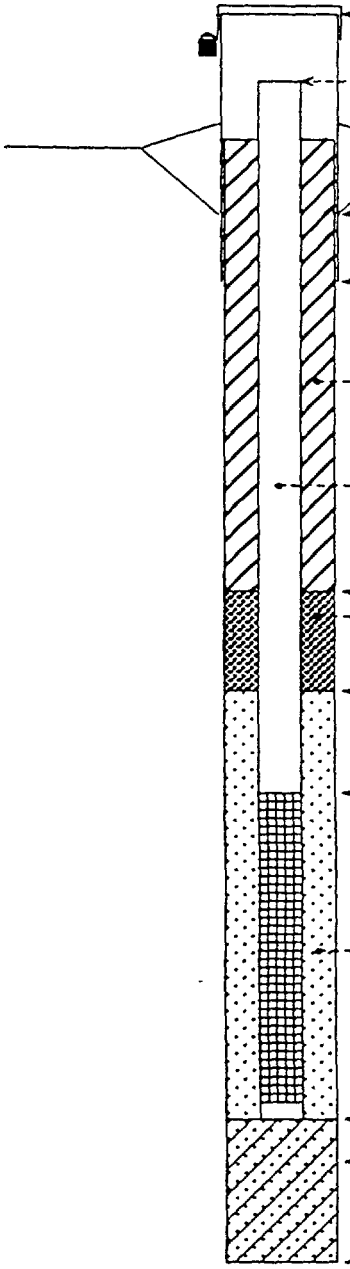
Depth of top of screen: 5.0 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 1.91 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 10.42 feet
Depth of bottom of sand pack: 10.42 feet
Backfill: none
(May or may not be present)
Depth of borehole: 10.42 feet

SHEET 1 OF 1		HOLE/WELL NO.:	0907
DATE STARTED:	11/29/89	SURFACE ELEVATION:	1,382.78
DATE FINISHED:	11/30/89		
DRILLER:	Empire Soils Inv.		
	Hamburg, New York	NORTHING:	891,868.58
FIELD GEOLOGIST:	FJC	EASTING:	481,411.80
PROJECT:	WVDP DOE/RCRA wells	LOCATION:	NORTH OF NDA
JOB NUMBER:	10805-410-023	SSWMU Locale:	9

Dames & Moore
Overburden
Well Construction



Top of outer casing elevation: 1,385.48 feet MSL
Outer casing stick-up: 2.7 feet
Top of riser elevation: 1,384.65 feet MSL
Riser pipe stick-up: 1.87 feet
Ground surface elevation: 1,382.78 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

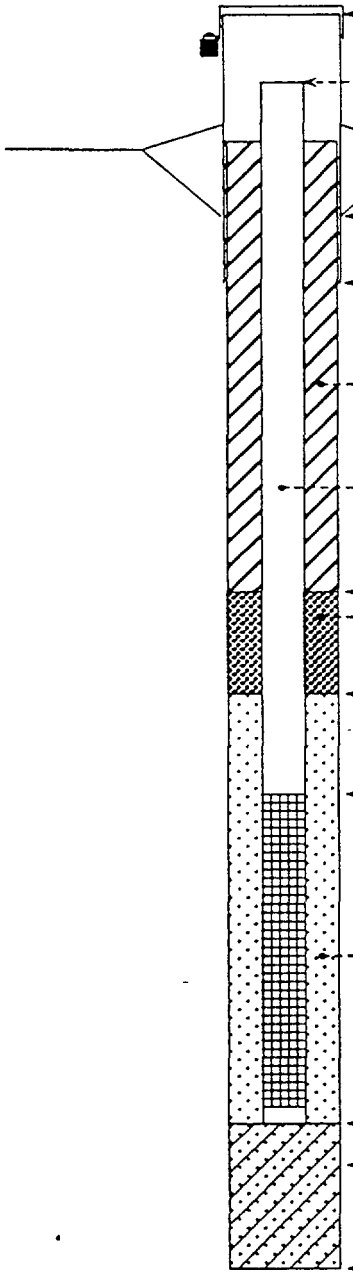
Depth of outer casing: 2.3 feet
I.D. of outer casing: 6 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 1.44 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 1-5', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 2.0 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.45 cu.ft.
Depth of sand pack: 3.8 feet

Depth of top of screen: 6 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 3.19 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 16.42 feet
Depth of bottom of sand pack: 16.42 feet
Backfill: NONE
(May or may not be present)
Depth of borehole: 18 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	0908
DATE STARTED:	3/22/90		SURFACE ELEVATION:	1,390.34
DATE FINISHED:	3/22/90			
DRILLER:	Empire Soils Inv. Hamburg, New York		NORTHING:	891,421.13
FIELD GEOLOGIST:	FJC		EASTING:	481,558.28
PROJECT:	WVDP DOE/RCRA wells		LOCATION:	SOUTH OF NDA
JOB NUMBER:	10805-410-023		SSWMU Locale:	9



Top of outer casing elevation: 1,393.54 feet MSL
Outer casing stick-up: 3.2 feet
Top of riser elevation: 1,392.55 feet MSL
Riser pipe stick-up: 2.21 feet
Ground surface elevation: 1,390.34 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

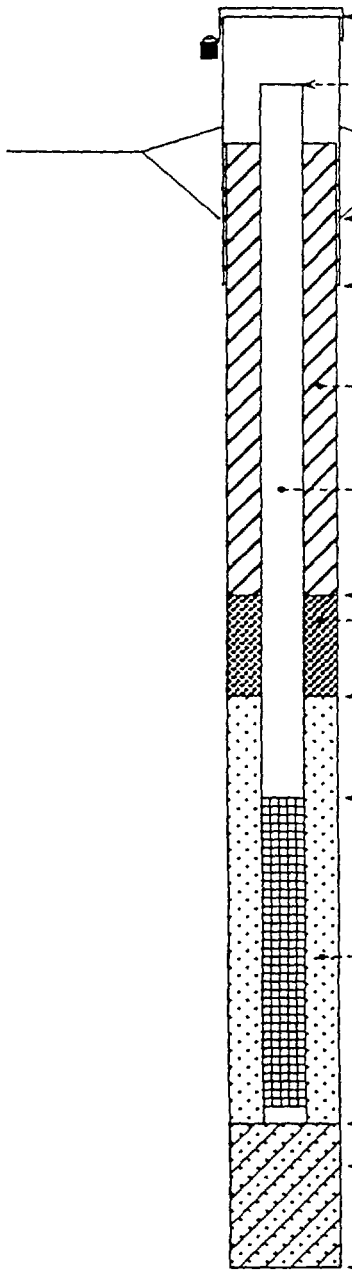
Depth of outer casing: 1.8 feet
I.D. of outer casing: 8 inches
Type of outer casing: steel
Type of backfill: cement-bentonite
Volume of backfill: 1.44 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 1-5', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 2.0 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.5 cu.ft.
Depth of sand pack: 3.7 feet

Depth of top of screen: 8 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10', 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 3.4 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 21.42 feet
Depth of bottom of sand pack: 21.42 feet
Backfill: none
(May or may not be present)
Depth of borehole: 21.42 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	0909
DATE STARTED:	1/7/92		SURFACE ELEVATION:	1,370.34
DATE FINISHED:	1/7/92			
DRILLER:	Empire Soils Inv. Hamburg, NY		NORTHING:	892,051.49
FIELD GEOLOGIST:	FJC		EASTING:	481,758.69
PROJECT:	NDA TRENCH		LOCATION:	NORTH OF NDA TRENCH
JOB NUMBER:	10805-641-6150		SSWMU Locale:	9



Top of outer casing elevation: N/A feet MSL
Outer casing stick-up: N/A feet
Top of riser elevation: N/A feet MSL
Riser pipe stick-up: N/A feet
Ground surface elevation: 1,370.34 feet MSL
Type of surface seal: Quickrete
Depth of surface seal: 6 inches

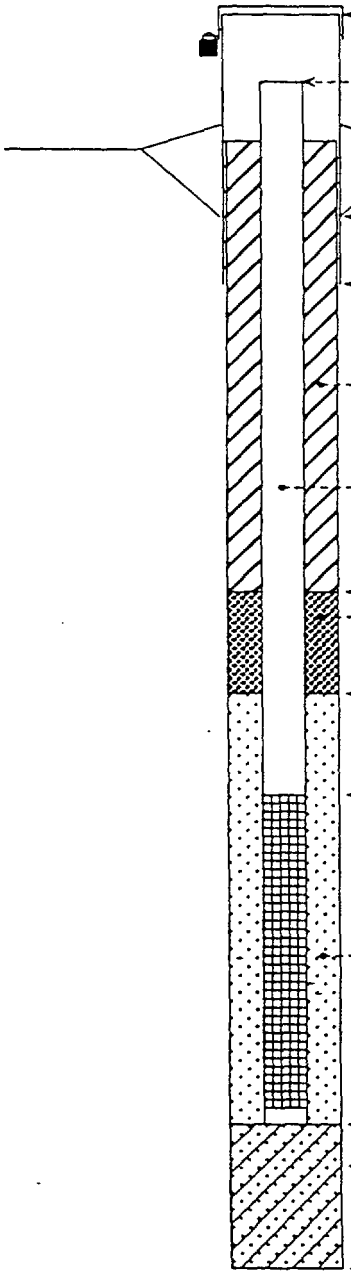
Depth of outer casing: N/A feet
I.D. of outer casing: N/A inches
Type of outer casing: Flush-Mount Water Box
Type of backfill: Cement/Bentonite
Volume of backfill: 2.8 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 S. S. Flushjoint, Sch. 5
Section lengths (from base) 1-5', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 3.9 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.87 cu.ft.
Depth of sand pack: 6.0 feet

Depth of top of screen: 8.0 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10', 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa flintshot 3.0 (fine)
Volume of sand pack: 2.6 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 23.42 feet
Depth of bottom of sand pack: 23.42 feet
Backfill: NONE
(May or may not be present)
Depth of borehole: 23.42 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	0910
DATE STARTED:	1/6/92		SURFACE ELEVATION:	1,369.72
DATE FINISHED:	1/6/92			
DRILLER:	Empire Soils Hamburg, NY		NORTHING:	892,054.70
FIELD GEOLOGIST:	FJC, JTB		EASTING:	481,765.50
PROJECT:	NDA TRENCH		LOCATION:	NORTH OF NDA TRENCH
JOB NUMBER:	10805-641-6150		SSWMU Locale:	9



Top of outer casing elevation: N/A feet MSL
Outer casing stick-up: N/A feet
Top of riser elevation: N/A feet MSL
Riser pipe stick-up: N/A feet
Ground surface elevation: 1,369.72 feet MSL
Type of surface seal: Quickrete
Depth of surface seal: 6 inches

Depth of outer casing: N/A feet
I.D. of outer casing: N/A inches
Type of outer casing: Flush-Mount Water Box
Type of backfill: Cement/Bentonite
Volume of backfill: 1.4 cu.ft.
Borehole diameter: 8 inches
Type of riser: Schedule 40 PVC
Section lengths (from base) 2-10', 1-5'
I.D. of riser pipe: 2 inches
Depth of seal: 21.5 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.67 cu.ft.
Depth of sand pack: 24 feet

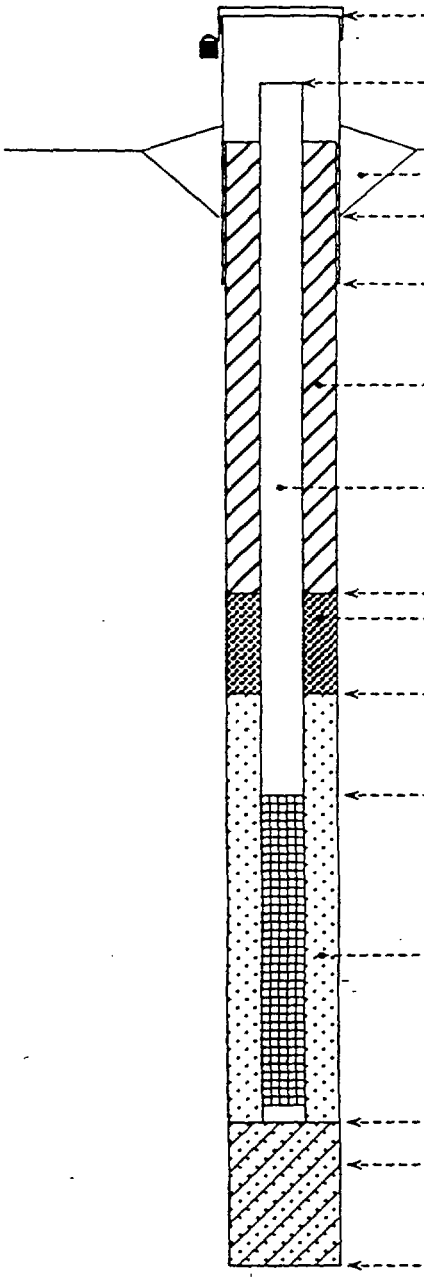
Depth of top of screen: 25 feet
Screen: Schedule 40 PVC
Section lengths (from base) 1-5'
I.D. of screen: 2 inches

Type of sand pack: Ottawa fine
Volume of sand pack: 0.85 cu.ft.

Depth to bottom of screen with bottom cap: 30 feet
Depth of bottom of sand pack: 30 feet
Backfill: NONE
(May or may not be present)
Depth of borehole: 30 feet

SHEET 1 OF 1		HOLE/WELL NO.:	1008b
DATE STARTED:	5/31/90	SURFACE ELEVATION:	1,400.26
DATE FINISHED:	6/4/90		
DRILLER:	Empire Soils Inv. Hamburg, New York	NORTHING:	890,868.78
FIELD GEOLOGIST:	FJC	EASTING:	481,169.09
PROJECT:	WVDP DOE/RCRA wells	LOCATION:	WSW OF DRUMCELL
JOB NUMBER:	10805-410-023	SSWMU Locale:	10

Dames & Moore
Overburden
Well Construction



Top of outer casing elevation: 1,402.49 feet MSL
Outer casing stick-up: 2.3 feet
Top of riser elevation: 1,402.35 feet MSL
Riser pipe stick-up: 2.09 feet
Ground surface elevation: 1,400.26 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

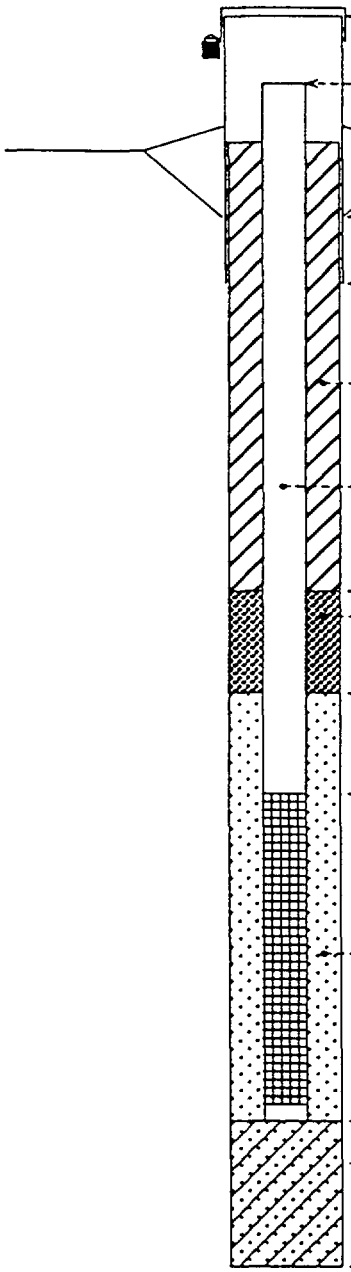
Depth of outer casing: 2.7 feet
I.D. of outer casing: 8 inches
Type of outer casing: steel
Type of backfill: cement/bentonite
Volume of backfill: 7.2 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch 5
Section lengths (from base) 4-10', 1-5', 1-3'
I.D. of riser pipe: 2 inches
Depth of seal: 40.1 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: 0.67 cu.ft.
Depth of sand pack: 44.5 feet

Depth of top of screen: 46 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-5'
I.D. of screen: 2 inches

Type of sand pack: ottawa flintshot 3.0 (fine)
Volume of sand pack: 1.7 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 51.42 feet
Depth of bottom of sand pack: 52 feet
Backfill: bentonite pellets (1/4" dia.)
(May or may not be present)
Depth of borehole: 54.5 feet

SHEET 1 OF 1		Dames & Moore Overburden Well Construction	HOLE/WELL NO.:	1008c
DATE STARTED:	6/5/90		SURFACE ELEVATION:	1,400.08
DATE FINISHED:	6/5/90			
DRILLER:	Empire Soils Inv. Hamburg, New York		NORTHING:	890,871.18
FIELD GEOLOGIST:	FJC		EASTING:	481,172.30
PROJECT:	WVDP DOE/RCRA wells		LOCATION:	WSW DRUMCELL
JOB NUMBER:	10805-410-023		SSWMU Locale:	10



Top of outer casing elevation: 1,402.43 feet MSL
Outer casing stick-up: 2.35 feet
Top of riser elevation: 1,402.37 feet MSL
Riser pipe stick-up: 2.28 feet
Ground surface elevation: 1,400.08 feet MSL
Type of surface seal: quickrete
Depth of surface seal: 4 inches

Depth of outer casing: 2.65 feet
I.D. of outer casing: 6 inches
Type of outer casing: steel
Type of backfill: cement/bentonite
Volume of backfill: 2.2 cu.ft.
Borehole diameter: 8 inches
Type of riser: 304 s.s. flushjoint, sch. 5
Section lengths (from base) 1-10'
I.D. of riser pipe: 2 inches
Depth of seal: 5 feet
Type of seal: bentonite pellets (1/4" dia.)
Volume of seal: .33 cu.ft.
Depth of sand pack: 6 feet

Depth of top of screen: 8 feet
Screen: S.S. Johnson Channel Pack, 10 slot
Section lengths (from base) 1-10'
I.D. of screen: 2 inches

Type of sand pack: us silica flintshot 3.0
Volume of sand pack: 2.13 cu.ft.

Depth to bottom of screen with attached 5 inch sump: 18.42 feet
Depth of bottom of sand pack: 18.42 feet
Backfill:
(May or may not be present)
Depth of borehole: 18.42 feet

Appendix E

Contamination Indicator Data for the Weathered Till, Unweathered Till, and the Kent Recessional Sequence

THIS PAGE INTENTIONALLY LEFT BLANK

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008C	Cond	03/21/91		542.00	µmhos/cm
WNW1008C	Cond	05/08/91		541.00	µmhos/cm
WNW1008C	Cond	06/12/91		458.00	µmhos/cm
WNW1008C	Cond	07/22/91		480.50	µmhos/cm
WNW1008C	Cond	09/11/91		509.50	µmhos/cm
WNW1008C	Cond	10/16/91		520.50	µmhos/cm
WNW1008C	Cond	12/04/91		539.00	µmhos/cm
WNW1008C	Cond	02/05/92		548.50	µmhos/cm
WNW1008C	Cond	03/18/92		508.00	µmhos/cm
WNW1008C	Cond	04/27/92		544.00	µmhos/cm
WNW1008C	Cond	07/29/92		555.50	µmhos/cm
WNW1008C	Cond	09/09/92		568.00	µmhos/cm
WNW1008C	Cond	10/19/92		563.50	µmhos/cm
WNW1008C	Cond	11/16/92		557.00	µmhos/cm
WNW1008C	Cond	12/17/92		551.50	µmhos/cm
WNW1008C	Cond	01/25/93		513.50	µmhos/cm
WNW1008C	Cond	03/01/93		536.50	µmhos/cm
WNW1008C	Cond	05/03/93		508.00	µmhos/cm
WNW1008C	Cond	06/07/93		507.50	µmhos/cm
WNW1008C	Cond	07/26/93		536.00	µmhos/cm
WNW1008C	Cond	11/29/93		567.00	µmhos/cm
WNW1008C	Cond	03/07/94		543.00	µmhos/cm
WNW1008C	Cond	05/26/94		537.50	µmhos/cm
WNW1008C	NPOC	05/08/91		5.00	mg/L
WNW1008C	NPOC	06/12/91		4.90	mg/L
WNW1008C	NPOC	07/22/91		8.60	mg/L
WNW1008C	NPOC	09/11/91		3.10	mg/L
WNW1008C	NPOC	10/16/91		10.00	mg/L
WNW1008C	NPOC	12/04/91		4.90	mg/L
WNW1008C	NPOC	02/05/92		0.70	mg/L
WNW1008C	NPOC	03/18/92		0.80	mg/L
WNW1008C	NPOC	04/27/92		0.70	mg/L
WNW1008C	NPOC	07/29/92		0.70	mg/L
WNW1008C	NPOC	09/09/92		0.80	mg/L
WNW1008C	NPOC	10/19/92		0.80	mg/L
WNW1008C	NPOC	11/16/92		0.70	mg/L
WNW1008C	NPOC	12/17/92		0.80	mg/L
WNW1008C	NPOC	01/25/93		0.70	mg/L
WNW1008C	NPOC	03/01/93		0.70	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008C	NPOC	05/03/93		0.70	mg/L
WNW1008C	NPOC	06/07/93		0.80	mg/L
WNW1008C	NPOC	07/26/93		0.80	mg/L
WNW1008C	NPOC	11/29/93		0.80	mg/L
WNW1008C	NPOC	03/07/94		0.70	mg/L
WNW1008C	NPOC	05/26/94		0.80	mg/L
WNW1008C	pH	03/21/91		7.33	N/A
WNW1008C	pH	05/08/91		7.61	N/A
WNW1008C	pH	06/12/91		7.51	N/A
WNW1008C	pH	07/22/91		7.54	N/A
WNW1008C	pH	09/11/91		7.38	N/A
WNW1008C	pH	10/16/91		7.40	N/A
WNW1008C	pH	12/04/91		7.27	N/A
WNW1008C	pH	02/05/92		7.38	N/A
WNW1008C	pH	03/18/92		7.44	N/A
WNW1008C	pH	04/27/92		7.45	N/A
WNW1008C	pH	07/29/92		7.41	N/A
WNW1008C	pH	09/09/92		7.40	N/A
WNW1008C	pH	10/19/92		7.09	N/A
WNW1008C	pH	11/16/92		7.35	N/A
WNW1008C	pH	12/17/92		7.56	N/A
WNW1008C	pH	01/25/93		7.43	N/A
WNW1008C	pH	03/01/93		7.72	N/A
WNW1008C	pH	05/03/93		7.73	N/A
WNW1008C	pH	06/07/93		7.47	N/A
WNW1008C	pH	07/26/93		7.87	N/A
WNW1008C	pH	11/29/93		7.47	N/A
WNW1008C	pH	03/07/94		7.84	N/A
WNW1008C	pH	05/26/94		7.66	N/A
WNW1008C	TOX	05/08/91		8.10	µg/L
WNW1008C	TOX	06/12/91		5.60	µg/L
WNW1008C	TOX	07/22/91		11.00	µg/L
WNW1008C	TOX	09/11/91	ND<5.00	5.00	µg/L
WNW1008C	TOX	10/16/91		8.40	µg/L
WNW1008C	TOX	12/04/91	ND<5.00	5.00	µg/L
WNW1008C	TOX	02/05/92		17.40	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008C	TOX	03/18/92		19.20	µg/L
WNW1008C	TOX	04/27/92		15.50	µg/L
WNW1008C	TOX	07/29/92	ND<4.00	4.00	µg/L
WNW1008C	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW1008C	TOX	10/19/92		4.00	µg/L
WNW1008C	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW1008C	TOX	12/17/92	ND<4.00	4.00	µg/L
WNW1008C	TOX	01/25/93		5.80	µg/L
WNW1008C	TOX	03/01/93		3.80	µg/L
WNW1008C	TOX	05/03/93		7.40	µg/L
WNW1008C	TOX	06/07/93		6.20	µg/L
WNW1008C	TOX	07/26/93		9.50	µg/L
WNW1008C	TOX	11/29/93	ND<2.00	2.00	µg/L
WNW1008C	TOX	03/07/94		7.80	µg/L
WNW1008C	TOX	05/26/94		6.50	µg/L
WNW1008C	gr_al__r	03/21/91	ND<2.62	0.00	pCi/L
WNW1008C	gr_al__r	05/08/91	ND<3.44	0.00	pCi/L
WNW1008C	gr_al__r	06/12/91		1.66	pCi/L
WNW1008C	gr_al__r	07/22/91	ND<3.49	-1.26	pCi/L
WNW1008C	gr_al__r	09/11/91		0.74	pCi/L
WNW1008C	gr_al__r	10/16/91		0.41	pCi/L
WNW1008C	gr_al__r	12/04/91		0.56	pCi/L
WNW1008C	gr_al__r	02/05/92		1.83	pCi/L
WNW1008C	gr_al__r	03/18/92		1.77	pCi/L
WNW1008C	gr_al__r	04/27/92		0.68	pCi/L
WNW1008C	gr_al__r	07/29/92		0.73	pCi/L
WNW1008C	gr_al__r	09/09/92		0.67	pCi/L
WNW1008C	gr_al__r	10/19/92		1.35	pCi/L
WNW1008C	gr_al__r	11/16/92	ND<2.12	0.00	pCi/L
WNW1008C	gr_al__r	12/17/92	ND<2.33	-1.19	pCi/L
WNW1008C	gr_al__r	01/25/93	ND<1.77	-0.52	pCi/L
WNW1008C	gr_al__r	03/01/93		1.19	pCi/L
WNW1008C	gr_al__r	05/03/93	ND<2.13	-1.08	pCi/L
WNW1008C	gr_al__r	06/07/93	ND<3.93	-2.53	pCi/L
WNW1008C	gr_al__r	07/26/93	ND<3.28	-0.75	pCi/L
WNW1008C	gr_al__r	11/29/93	ND<4.56	-4.40	pCi/L
WNW1008C	gr_al__r	03/07/94	ND<2.27	-1.64	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008C	gr_al__r	05/26/94		1.99	pCi/L
WNW1008C	gr_bt__r	03/21/91		1.70	pCi/L
WNW1008C	gr_bt__r	05/08/91	ND<3.04	-0.15	pCi/L
WNW1008C	gr_bt__r	06/12/91		5.72	pCi/L
WNW1008C	gr_bt__r	07/22/91		2.02	pCi/L
WNW1008C	gr_bt__r	09/11/91		0.62	pCi/L
WNW1008C	gr_bt__r	10/16/91		2.69	pCi/L
WNW1008C	gr_bt__r	12/04/91	ND<2.22	-0.15	pCi/L
WNW1008C	gr_bt__r	02/05/92		3.18	pCi/L
WNW1008C	gr_bt__r	03/18/92		3.45	pCi/L
WNW1008C	gr_bt__r	04/27/92		2.45	pCi/L
WNW1008C	gr_bt__r	07/29/92		1.69	pCi/L
WNW1008C	gr_bt__r	09/09/92	ND<2.65	0.00	pCi/L
WNW1008C	gr_bt__r	10/19/92		0.77	pCi/L
WNW1008C	gr_bt__r	11/16/92		3.56	pCi/L
WNW1008C	gr_bt__r	12/17/92		2.25	pCi/L
WNW1008C	gr_bt__r	01/25/93		1.18	pCi/L
WNW1008C	gr_bt__r	03/01/93		1.66	pCi/L
WNW1008C	gr_bt__r	05/03/93		1.51	pCi/L
WNW1008C	gr_bt__r	06/07/93		3.33	pCi/L
WNW1008C	gr_bt__r	07/26/93		0.18	pCi/L
WNW1008C	gr_bt__r	11/29/93	ND<3.72	-1.62	pCi/L
WNW1008C	gr_bt__r	03/07/94		2.79	pCi/L
WNW1008C	gr_bt__r	05/26/94		2.78	pCi/L
WNW1008C	trtium_r	03/21/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	05/08/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	06/12/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	09/11/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	10/16/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	12/04/91	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	02/05/92	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	03/18/92	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	04/27/92	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	07/29/92		123.60	pCi/L
WNW1008C	trtium_r	09/09/92	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008C	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	12/17/92	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	03/01/93		39.28	pCi/L
WNW1008C	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW1008C	trtium_r	07/26/93		225.00	pCi/L
WNW1008C	trtium_r	11/29/93		114.00	pCi/L
WNW1008C	trtium_r	03/07/94		5.40	pCi/L
WNW1008C	trtium_r	05/26/94		8.20	pCi/L

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	Cond	11/16/93		755.00	µmhos/cm
WNNDATR	Cond	03/08/94		1443.00	µmhos/cm
WNNDATR	NPOC	11/16/93		4.00	mg/L
WNNDATR	NPOC	03/08/94		5.25	mg/L
WNNDATR	NPOC	05/17/94		2.55	mg/L
WNNDATR	pH	11/16/93		7.14	N/A
WNNDATR	pH	03/08/94		7.44	N/A
WNNDATR	TOX	11/16/93		5.40	µg/L
WNNDATR	TOX	03/08/94		22.20	µg/L
WNNDATR	TOX	05/17/94		7.00	µg/L
WNNDATR	gr_al__r	11/16/93		2.72	pCi/L
WNNDATR	gr_al__r	03/08/94		6.73	pCi/L
WNNDATR	gr_al__r	05/17/94		0.67	pCi/L
WNNDATR	gr_bt__r	11/16/93		48.44	pCi/L
WNNDATR	gr_bt__r	03/08/94		90.36	pCi/L
WNNDATR	gr_bt__r	05/17/94		58.82	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNNDATR	trtium_r	11/16/93		14300.00	pCi/L
WNNDATR	trtium_r	03/08/94		20540.00	pCi/L
WNNDATR	trtium_r	05/17/94		40030.00	pCi/L
WNW0905	Cond	01/25/93		1615.50	µmhos/cm
WNW0905	Cond	03/02/93		1560.00	µmhos/cm
WNW0905	Cond	05/03/93		1614.50	µmhos/cm
WNW0905	Cond	10/19/92		1617.00	µmhos/cm
WNW0905	Cond	11/16/92		1611.50	µmhos/cm
WNW0905	Cond	12/14/92		1599.50	µmhos/cm
WNW0905	Cond	05/19/94		1636.00	µmhos/cm
WNW0905	Cond	03/07/94		1606.00	µmhos/cm
WNW0905	Cond	11/30/93		1600.00	µmhos/cm
WNW0905	Cond	06/07/93		1616.00	µmhos/cm
WNW0905	Cond	07/26/93		1623.00	µmhos/cm
WNW0905	Cond	07/06/94		1605.00	µmhos/cm
WNW0905	Cond	07/22/91		1661.00	µmhos/cm
WNW0905	Cond	09/09/91		1649.50	µmhos/cm
WNW0905	Cond	10/14/91		1641.00	µmhos/cm
WNW0905	Cond	03/12/91		1659.00	µmhos/cm
WNW0905	Cond	05/06/91		1665.50	µmhos/cm
WNW0905	Cond	06/10/91		1655.00	µmhos/cm
WNW0905	Cond	03/18/92		1635.00	µmhos/cm
WNW0905	Cond	04/29/92		1628.00	µmhos/cm
WNW0905	Cond	07/29/92		1628.50	µmhos/cm
WNW0905	Cond	02/06/92		1650.50	µmhos/cm
WNW0905	Cond	12/02/91		1623.00	µmhos/cm
WNW0905	Cond	09/09/92		1608.50	µmhos/cm
WNW0905	NPOC	06/07/93		1.20	mg/L
WNW0905	NPOC	01/25/93		1.00	mg/L
WNW0905	NPOC	03/02/93		1.20	mg/L
WNW0905	NPOC	05/03/93		1.10	mg/L
WNW0905	NPOC	07/26/93		1.20	mg/L
WNW0905	NPOC	05/19/94		1.18	mg/L
WNW0905	NPOC	07/06/94		1.20	mg/L
WNW0905	NPOC	11/30/93		1.20	mg/L
WNW0905	NPOC	03/07/94		1.10	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0905	NPOC	12/14/92		1.10	mg/L
WNW0905	NPOC	09/09/91	ND<1.00	1.00	mg/L
WNW0905	NPOC	10/14/91		74.00	mg/L
WNW0905	NPOC	12/02/91		84.00	mg/L
WNW0905	NPOC	05/06/91		45.00	mg/L
WNW0905	NPOC	06/10/91		1.90	mg/L
WNW0905	NPOC	07/22/91		3.40	mg/L
WNW0905	NPOC	02/06/92		1.40	mg/L
WNW0905	NPOC	09/09/92		1.20	mg/L
WNW0905	NPOC	07/29/92		1.00	mg/L
WNW0905	NPOC	11/16/92		1.10	mg/L
WNW0905	NPOC	10/19/92		1.10	mg/L
WNW0905	NPOC	03/18/92		1.10	mg/L
WNW0905	NPOC	04/29/92		1.10	mg/L
WNW0905	pH	03/12/91		6.86	N/A
WNW0905	pH	05/06/91		6.72	N/A
WNW0905	pH	06/10/91		6.84	N/A
WNW0905	pH	07/22/91		6.80	N/A
WNW0905	pH	09/09/91		6.72	N/A
WNW0905	pH	10/14/91		6.98	N/A
WNW0905	pH	12/05/91		6.62	N/A
WNW0905	pH	02/06/92		6.63	N/A
WNW0905	pH	03/18/92		6.64	N/A
WNW0905	pH	04/29/92		6.74	N/A
WNW0905	pH	07/29/92		6.67	N/A
WNW0905	pH	09/09/92		6.74	N/A
WNW0905	pH	10/19/92		6.70	N/A
WNW0905	pH	11/16/92		6.90	N/A
WNW0905	pH	12/14/92		6.52	N/A
WNW0905	pH	01/25/93		6.89	N/A
WNW0905	pH	03/02/93		6.87	N/A
WNW0905	pH	05/03/93		6.65	N/A
WNW0905	pH	06/07/93		6.83	N/A
WNW0905	pH	07/26/93		8.15	N/A
WNW0905	pH	11/30/93		6.83	N/A
WNW0905	pH	03/07/94		7.04	N/A
WNW0905	pH	05/19/94		6.92	N/A
WNW0905	TOX	05/03/93	ND<2.00	2.00	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0905	TOX	06/07/93		2.80	µg/L
WNW0905	TOX	07/26/93		5.20	µg/L
WNW0905	TOX	07/06/94	ND<2.00	2.00	µg/L
WNW0905	TOX	11/30/93		5.40	µg/L
WNW0905	TOX	03/07/94		3.20	µg/L
WNW0905	TOX	05/19/94		4.40	µg/L
WNW0905	TOX	03/02/93	ND<2.00	2.00	µg/L
WNW0905	TOX	02/06/92	ND<4.00	4.00	µg/L
WNW0905	TOX	03/18/92		13.80	µg/L
WNW0905	TOX	04/29/92	ND<4.00	4.00	µg/L
WNW0905	TOX	05/06/91		5.80	µg/L
WNW0905	TOX	12/02/91	ND<5.00	5.00	µg/L
WNW0905	TOX	10/14/91		12.00	µg/L
WNW0905	TOX	09/09/91		3.30	µg/L
WNW0905	TOX	07/29/92	ND<4.00	4.00	µg/L
WNW0905	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW0905	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0905	TOX	01/25/93		4.20	µg/L
WNW0905	TOX	07/22/91		15.00	µg/L
WNW0905	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW0905	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0905	TOX	06/10/91		8.40	µg/L
WNW0905	gr_al__r	11/16/92		5.10	pCi/L
WNW0905	gr_al__r	06/10/91		37.51	pCi/L
WNW0905	gr_al__r	12/14/92		2.09	pCi/L
WNW0905	gr_al__r	07/29/92		8.35	pCi/L
WNW0905	gr_al__r	09/09/91		3.74	pCi/L
WNW0905	gr_al__r	09/09/92		7.74	pCi/L
WNW0905	gr_al__r	10/19/92		2.91	pCi/L
WNW0905	gr_al__r	07/22/91	ND<11.14	-3.60	pCi/L
WNW0905	gr_al__r	11/30/93		8.88	pCi/L
WNW0905	gr_al__r	03/12/91		5.08	pCi/L
WNW0905	gr_al__r	03/07/94		2.92	pCi/L
WNW0905	gr_al__r	07/06/94		1.29	pCi/L
WNW0905	gr_al__r	05/19/94		5.11	pCi/L
WNW0905	gr_al__r	07/26/93		2.98	pCi/L
WNW0905	gr_al__r	03/02/93		7.98	pCi/L
WNW0905	gr_al__r	01/25/93		1.58	pCi/L
WNW0905	gr_al__r	05/06/91		12.06	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0905	gr_al__r	06/07/93		1.58	pCi/L
WNW0905	gr_al__r	05/03/93		1.90	pCi/L
WNW0905	gr_al__r	10/14/91		1.89	pCi/L
WNW0905	gr_al__r	12/05/91		6.30	pCi/L
WNW0905	gr_al__r	03/18/92		12.47	pCi/L
WNW0905	gr_al__r	02/06/92		11.46	pCi/L
WNW0905	gr_al__r	04/29/92		3.05	pCi/L
WNW0905	gr_bt__r	03/02/93		4.51	pCi/L
WNW0905	gr_bt__r	01/25/93	ND<5.57	-0.34	pCi/L
WNW0905	gr_bt__r	02/06/92		5.95	pCi/L
WNW0905	gr_bt__r	05/06/91		12.29	pCi/L
WNW0905	gr_bt__r	07/06/94		7.17	pCi/L
WNW0905	gr_bt__r	06/10/91		7.88	pCi/L
WNW0905	gr_bt__r	11/16/92		9.48	pCi/L
WNW0905	gr_bt__r	12/14/92		9.42	pCi/L
WNW0905	gr_bt__r	03/18/92		7.49	pCi/L
WNW0905	gr_bt__r	07/26/93		2.95	pCi/L
WNW0905	gr_bt__r	03/12/91		4.39	pCi/L
WNW0905	gr_bt__r	11/30/93		3.72	pCi/L
WNW0905	gr_bt__r	12/05/91		11.58	pCi/L
WNW0905	gr_bt__r	06/07/93		13.93	pCi/L
WNW0905	gr_bt__r	05/03/93		5.11	pCi/L
WNW0905	gr_bt__r	05/19/94		4.92	pCi/L
WNW0905	gr_bt__r	10/14/91		5.42	pCi/L
WNW0905	gr_bt__r	03/07/94		3.05	pCi/L
WNW0905	gr_bt__r	04/29/92		7.76	pCi/L
WNW0905	gr_bt__r	09/09/92		3.43	pCi/L
WNW0905	gr_bt__r	07/29/92		6.59	pCi/L
WNW0905	gr_bt__r	10/19/92		5.57	pCi/L
WNW0905	gr_bt__r	09/09/91		7.75	pCi/L
WNW0905	gr_bt__r	07/22/91		6.40	pCi/L
WNW0905	trtium_r	12/05/91		401.88	pCi/L
WNW0905	trtium_r	07/22/91		205.70	pCi/L
WNW0905	trtium_r	04/29/92		346.00	pCi/L
WNW0905	trtium_r	09/09/92		313.20	pCi/L
WNW0905	trtium_r	10/14/91		190.00	pCi/L
WNW0905	trtium_r	05/06/91		85.39	pCi/L
WNW0905	trtium_r	05/03/93		156.80	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0905	trtium_r	03/12/91		384.08	pCi/L
WNW0905	trtium_r	01/25/93		260.40	pCi/L
WNW0905	trtium_r	02/06/92		119.70	pCi/L
WNW0905	trtium_r	03/18/92		250.60	pCi/L
WNW0905	trtium_r	06/07/93		15.00	pCi/L
WNW0905	trtium_r	03/02/93		227.70	pCi/L
WNW0905	trtium_r	06/10/91		81.50	pCi/L
WNW0905	trtium_r	12/14/92		214.44	pCi/L
WNW0905	trtium_r	11/16/92		309.60	pCi/L
WNW0905	trtium_r	03/07/94		360.30	pCi/L
WNW0905	trtium_r	10/19/92		185.60	pCi/L
WNW0905	trtium_r	11/30/93		258.70	pCi/L
WNW0905	trtium_r	05/19/94		306.50	pCi/L
WNW0905	trtium_r	07/06/94		267.60	pCi/L
WNW0905	trtium_r	07/29/92		355.90	pCi/L
WNW0905	trtium_r	07/26/93		493.70	pCi/L
WNW0905	trtium_r	09/09/91		267.24	pCi/L
WNW0906	Cond	03/21/91		700.00	µmhos/cm
WNW0906	Cond	05/06/91		695.00	µmhos/cm
WNW0906	Cond	06/10/91		674.00	µmhos/cm
WNW0906	Cond	07/22/91		761.00	µmhos/cm
WNW0906	Cond	02/06/92		1125.00	µmhos/cm
WNW0906	Cond	03/16/92		2070.00	µmhos/cm
WNW0906	Cond	04/29/92		1042.00	µmhos/cm
WNW0906	Cond	07/27/92		763.00	µmhos/cm
WNW0906	Cond	09/09/92		694.50	µmhos/cm
WNW0906	Cond	10/19/92		868.50	µmhos/cm
WNW0906	Cond	11/16/92		672.00	µmhos/cm
WNW0906	Cond	12/14/92		791.00	µmhos/cm
WNW0906	Cond	01/25/93		755.50	µmhos/cm
WNW0906	Cond	05/06/93		573.50	µmhos/cm
WNW0906	Cond	06/07/93		710.50	µmhos/cm
WNW0906	Cond	07/26/93		763.50	µmhos/cm
WNW0906	Cond	12/09/93		543.00	µmhos/cm
WNW0906	Cond	03/07/94		625.00	µmhos/cm
WNW0906	Cond	04/28/94		587.00	µmhos/cm
WNW0906	NPOC	05/06/91		26.00	mg/L
WNW0906	NPOC	06/10/91		6.60	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0906	NPOC	07/22/91		4.40	mg/L
WNW0906	NPOC	02/06/92		6.80	mg/L
WNW0906	NPOC	02/14/92		5.60	mg/L
WNW0906	NPOC	03/16/92		6.80	mg/L
WNW0906	NPOC	04/29/92		3.20	mg/L
WNW0906	NPOC	07/27/92		4.50	mg/L
WNW0906	NPOC	09/09/92		3.80	mg/L
WNW0906	NPOC	10/19/92		2.10	mg/L
WNW0906	NPOC	11/16/92		5.20	mg/L
WNW0906	NPOC	12/14/92		5.60	mg/L
WNW0906	NPOC	01/25/93		4.40	mg/L
WNW0906	NPOC	03/01/93		4.40	mg/L
WNW0906	NPOC	05/06/93		4.20	mg/L
WNW0906	NPOC	06/07/93		3.00	mg/L
WNW0906	NPOC	07/26/93		2.00	mg/L
WNW0906	NPOC	12/09/93		4.90	mg/L
WNW0906	NPOC	03/07/94		4.50	mg/L
WNW0906	NPOC	04/28/94		5.10	mg/L
WNW0906	pH	03/21/91		7.23	N/A
WNW0906	pH	05/06/91		7.38	N/A
WNW0906	pH	06/10/91		7.29	N/A
WNW0906	pH	07/22/91		7.26	N/A
WNW0906	pH	02/06/92		7.02	N/A
WNW0906	pH	03/16/92		7.01	N/A
WNW0906	pH	04/29/92		7.26	N/A
WNW0906	pH	07/27/92		7.25	N/A
WNW0906	pH	09/09/92		7.33	N/A
WNW0906	pH	10/19/92		7.20	N/A
WNW0906	pH	11/16/92		7.36	N/A
WNW0906	pH	12/14/92		6.96	N/A
WNW0906	pH	01/25/93		7.27	N/A
WNW0906	pH	03/01/93		7.15	N/A
WNW0906	pH	05/06/93		7.27	N/A
WNW0906	pH	06/07/93		7.18	N/A
WNW0906	pH	07/26/93		8.29	N/A
WNW0906	pH	12/09/93		7.36	N/A
WNW0906	pH	03/07/94		7.69	N/A
WNW0906	pH	04/28/94		7.62	N/A

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0906	TOX	05/06/91		73.00	µg/L
WNW0906	TOX	06/10/91		11.00	µg/L
WNW0906	TOX	07/22/91	ND<5.00	5.00	µg/L
WNW0906	TOX	02/06/92		14.30	µg/L
WNW0906	TOX	03/16/92		24.00	µg/L
WNW0906	TOX	04/29/92		5.40	µg/L
WNW0906	TOX	07/27/92		7.20	µg/L
WNW0906	TOX	09/09/92		6.40	µg/L
WNW0906	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW0906	TOX	11/16/92		10.00	µg/L
WNW0906	TOX	12/14/92		9.80	µg/L
WNW0906	TOX	01/25/93		6.10	µg/L
WNW0906	TOX	03/01/93		6.60	µg/L
WNW0906	TOX	05/06/93		6.60	µg/L
WNW0906	TOX	06/07/93		7.60	µg/L
WNW0906	TOX	07/26/93		3.40	µg/L
WNW0906	TOX	12/09/93		10.40	µg/L
WNW0906	TOX	03/07/94		11.20	µg/L
WNW0906	TOX	04/28/94		11.10	µg/L
WNW0906	gr_al__r	03/21/91		0.76	pCi/L
WNW0906	gr_al__r	05/06/91		0.88	pCi/L
WNW0906	gr_al__r	06/10/91		4.12	pCi/L
WNW0906	gr_al__r	07/22/91	ND<5.88	-1.00	pCi/L
WNW0906	gr_al__r	02/06/92		4.23	pCi/L
WNW0906	gr_al__r	03/16/92	ND<1.67	0.00	pCi/L
WNW0906	gr_al__r	04/29/92		1.01	pCi/L
WNW0906	gr_al__r	07/27/92		1.98	pCi/L
WNW0906	gr_al__r	09/09/92		1.59	pCi/L
WNW0906	gr_al__r	10/19/92	ND<3.25	-0.74	pCi/L
WNW0906	gr_al__r	11/16/92		3.76	pCi/L
WNW0906	gr_al__r	12/14/92		5.02	pCi/L
WNW0906	gr_al__r	01/25/93		4.91	pCi/L
WNW0906	gr_al__r	03/01/93		1.90	pCi/L
WNW0906	gr_al__r	05/06/93		1.14	pCi/L
WNW0906	gr_al__r	06/07/93	ND<3.82	-0.65	pCi/L
WNW0906	gr_al__r	07/26/93		6.44	pCi/L
WNW0906	gr_al__r	12/09/93	ND<4.10	0.00	pCi/L
WNW0906	gr_al__r	03/07/94		5.00	pCi/L
WNW0906	gr_al__r	04/28/94		7.80	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0906	gr_bt__r	03/21/91		4.16	pCi/L
WNW0906	gr_bt__r	05/06/91	ND<3.15	0.00	pCi/L
WNW0906	gr_bt__r	06/10/91		7.61	pCi/L
WNW0906	gr_bt__r	07/22/91		2.32	pCi/L
WNW0906	gr_bt__r	02/06/92		2.12	pCi/L
WNW0906	gr_bt__r	03/16/92		4.37	pCi/L
WNW0906	gr_bt__r	04/29/92		5.50	pCi/L
WNW0906	gr_bt__r	07/27/92		1.98	pCi/L
WNW0906	gr_bt__r	09/09/92		3.13	pCi/L
WNW0906	gr_bt__r	10/19/92		5.43	pCi/L
WNW0906	gr_bt__r	11/16/92		3.94	pCi/L
WNW0906	gr_bt__r	12/14/92		4.83	pCi/L
WNW0906	gr_bt__r	01/25/93		2.43	pCi/L
WNW0906	gr_bt__r	03/01/93		4.50	pCi/L
WNW0906	gr_bt__r	05/06/93		4.12	pCi/L
WNW0906	gr_bt__r	06/07/93		4.03	pCi/L
WNW0906	gr_bt__r	07/26/93		1.10	pCi/L
WNW0906	gr_bt__r	12/09/93		2.90	pCi/L
WNW0906	gr_bt__r	03/07/94		2.29	pCi/L
WNW0906	gr_bt__r	04/28/94		4.10	pCi/L
WNW0906	trtium_r	03/21/91	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	02/06/92		80.90	pCi/L
WNW0906	trtium_r	03/16/92	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	04/29/92	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	07/27/92		38.30	pCi/L
WNW0906	trtium_r	09/09/92		13.50	pCi/L
WNW0906	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	03/01/93	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	05/06/93		18.90	pCi/L
WNW0906	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0906	trtium_r	07/26/93		270.00	pCi/L
WNW0906	trtium_r	12/09/93		105.90	pCi/L
WNW0906	trtium_r	03/07/94		64.80	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0906	trtium_r	04/28/94		55.40	pCi/L
WNW0907	Cond	03/12/91		417.00	µmhos/cm
WNW0907	Cond	05/06/91		755.00	µmhos/cm
WNW0907	Cond	06/10/91		743.00	µmhos/cm
WNW0907	Cond	07/22/91		751.00	µmhos/cm
WNW0907	Cond	09/09/91		789.50	µmhos/cm
WNW0907	Cond	02/05/92		1094.50	µmhos/cm
WNW0907	Cond	03/16/92		1014.50	µmhos/cm
WNW0907	Cond	04/29/92		915.00	µmhos/cm
WNW0907	Cond	07/27/92		861.00	µmhos/cm
WNW0907	Cond	09/09/92		827.00	µmhos/cm
WNW0907	Cond	10/19/92		826.50	µmhos/cm
WNW0907	Cond	11/16/92		803.00	µmhos/cm
WNW0907	Cond	12/14/92		808.00	µmhos/cm
WNW0907	Cond	01/25/93		805.50	µmhos/cm
WNW0907	Cond	03/01/93		810.00	µmhos/cm
WNW0907	Cond	05/06/93		770.00	µmhos/cm
WNW0907	Cond	06/07/93		783.50	µmhos/cm
WNW0907	Cond	07/26/93		777.00	µmhos/cm
WNW0907	Cond	11/30/93		777.00	µmhos/cm
WNW0907	Cond	03/07/94		792.00	µmhos/cm
WNW0907	Cond	04/28/94		774.00	µmhos/cm
WNW0907	NPOC	05/06/91		49.00	mg/L
WNW0907	NPOC	06/10/91		1.50	mg/L
WNW0907	NPOC	07/22/91		6.20	mg/L
WNW0907	NPOC	09/09/91	ND<1.00	0.00	mg/L
WNW0907	NPOC	02/05/92		1.10	mg/L
WNW0907	NPOC	03/16/92		0.80	mg/L
WNW0907	NPOC	04/29/92		0.70	mg/L
WNW0907	NPOC	07/27/92		0.60	mg/L
WNW0907	NPOC	09/09/92		0.80	mg/L
WNW0907	NPOC	10/19/92		0.70	mg/L
WNW0907	NPOC	11/16/92		0.80	mg/L
WNW0907	NPOC	12/14/92		0.70	mg/L
WNW0907	NPOC	01/25/93		0.70	mg/L
WNW0907	NPOC	03/01/93		0.80	mg/L
WNW0907	NPOC	05/06/93		0.70	mg/L
WNW0907	NPOC	06/07/93		0.70	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0907	NPOC	07/26/93		0.80	mg/L
WNW0907	NPOC	12/01/93		0.80	mg/L
WNW0907	NPOC	03/07/94		0.60	mg/L
WNW0907	NPOC	04/28/94		0.90	mg/L
WNW0907	pH	03/12/91		7.27	N/A
WNW0907	pH	05/06/91		7.22	N/A
WNW0907	pH	06/10/91		7.13	N/A
WNW0907	pH	07/22/91		7.03	N/A
WNW0907	pH	09/09/91		6.99	N/A
WNW0907	pH	02/05/92		6.89	N/A
WNW0907	pH	03/16/92		6.89	N/A
WNW0907	pH	04/29/92		6.97	N/A
WNW0907	pH	07/27/92		6.99	N/A
WNW0907	pH	09/09/92		7.03	N/A
WNW0907	pH	10/19/92		7.01	N/A
WNW0907	pH	11/16/92		7.12	N/A
WNW0907	pH	12/14/92		6.75	N/A
WNW0907	pH	01/25/93		7.12	N/A
WNW0907	pH	03/01/93		7.52	N/A
WNW0907	pH	05/06/93		7.02	N/A
WNW0907	pH	06/07/93		7.00	N/A
WNW0907	pH	07/26/93		8.52	N/A
WNW0907	pH	11/30/93		7.13	N/A
WNW0907	pH	03/07/94		7.43	N/A
WNW0907	pH	04/28/94		7.33	N/A
WNW0907	TOX	05/06/91		6.30	µg/L
WNW0907	TOX	06/10/91	ND<5.00	5.00	µg/L
WNW0907	TOX	07/22/91	ND<5.00	5.00	µg/L
WNW0907	TOX	09/09/91	ND<5.00	5.00	µg/L
WNW0907	TOX	02/05/92		4.60	µg/L
WNW0907	TOX	03/16/92	ND<4.00	4.00	µg/L
WNW0907	TOX	04/29/92	ND<4.00	4.00	µg/L
WNW0907	TOX	07/27/92	ND<4.00	4.00	µg/L
WNW0907	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0907	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW0907	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW0907	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0907	TOX	01/25/93	ND<2.00	2.00	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0907	TOX	03/01/93	ND<2.00	2.00	µg/L
WNW0907	TOX	05/06/93	ND<2.00	2.00	µg/L
WNW0907	TOX	06/07/93	ND<2.00	2.00	µg/L
WNW0907	TOX	07/26/93	ND<2.00	2.00	µg/L
WNW0907	TOX	12/01/93	ND<2.00	2.00	µg/L
WNW0907	TOX	03/07/94	ND<2.00	2.00	µg/L
WNW0907	TOX	04/28/94	ND<2.00	2.00	µg/L
WNW0907	gr_al__r	03/12/91		5.19	pCi/L
WNW0907	gr_al__r	05/06/91		5.92	pCi/L
WNW0907	gr_al__r	06/10/91		7.46	pCi/L
WNW0907	gr_al__r	07/22/91		2.05	pCi/L
WNW0907	gr_al__r	09/09/91		18.72	pCi/L
WNW0907	gr_al__r	02/05/92		14.38	pCi/L
WNW0907	gr_al__r	03/16/92		2.73	pCi/L
WNW0907	gr_al__r	04/29/92	ND<5.06	-1.16	pCi/L
WNW0907	gr_al__r	07/27/92		7.03	pCi/L
WNW0907	gr_al__r	09/09/92		1.77	pCi/L
WNW0907	gr_al__r	10/19/92	ND<4.16	0.00	pCi/L
WNW0907	gr_al__r	11/16/92		6.19	pCi/L
WNW0907	gr_al__r	12/14/92		2.73	pCi/L
WNW0907	gr_al__r	01/25/93		4.04	pCi/L
WNW0907	gr_al__r	03/01/93		1.68	pCi/L
WNW0907	gr_al__r	05/06/93	ND<3.41	-0.78	pCi/L
WNW0907	gr_al__r	06/07/93		2.34	pCi/L
WNW0907	gr_al__r	07/26/93		3.86	pCi/L
WNW0907	gr_al__r	12/01/93	ND<6.12	-1.18	pCi/L
WNW0907	gr_al__r	03/07/94		3.32	pCi/L
WNW0907	gr_al__r	04/29/94		1.40	pCi/L
WNW0907	gr_bt__r	03/12/91		8.56	pCi/L
WNW0907	gr_bt__r	05/06/91		6.79	pCi/L
WNW0907	gr_bt__r	06/10/91		5.00	pCi/L
WNW0907	gr_bt__r	07/22/91		2.64	pCi/L
WNW0907	gr_bt__r	09/09/91		5.66	pCi/L
WNW0907	gr_bt__r	02/05/92		5.58	pCi/L
WNW0907	gr_bt__r	03/16/92		5.43	pCi/L
WNW0907	gr_bt__r	04/29/92		10.05	pCi/L
WNW0907	gr_bt__r	07/27/92		4.52	pCi/L
WNW0907	gr_bt__r	09/09/92		6.68	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0907	gr_bt__r	10/19/92		5.71	pCi/L
WNW0907	gr_bt__r	11/16/92		5.36	pCi/L
WNW0907	gr_bt__r	12/14/92		1.27	pCi/L
WNW0907	gr_bt__r	01/25/93		3.03	pCi/L
WNW0907	gr_bt__r	03/01/93		4.11	pCi/L
WNW0907	gr_bt__r	05/06/93		3.83	pCi/L
WNW0907	gr_bt__r	06/07/93		5.49	pCi/L
WNW0907	gr_bt__r	07/26/93		0.90	pCi/L
WNW0907	gr_bt__r	12/01/93		6.25	pCi/L
WNW0907	gr_bt__r	03/07/94		2.00	pCi/L
WNW0907	gr_bt__r	04/29/94		7.23	pCi/L
WNW0907	trtium_r	03/12/91		54.84	pCi/L
WNW0907	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0907	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0907	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0907	trtium_r	09/09/91		95.63	pCi/L
WNW0907	trtium_r	02/05/92		168.30	pCi/L
WNW0907	trtium_r	03/16/92	ND<100.00	0.00	pCi/L
WNW0907	trtium_r	04/29/92		109.40	pCi/L
WNW0907	trtium_r	07/27/92		157.13	pCi/L
WNW0907	trtium_r	09/09/92		83.91	pCi/L
WNW0907	trtium_r	10/19/92		71.20	pCi/L
WNW0907	trtium_r	11/16/92		79.50	pCi/L
WNW0907	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW0907	trtium_r	01/25/93		67.86	pCi/L
WNW0907	trtium_r	03/01/93		70.20	pCi/L
WNW0907	trtium_r	05/06/93		80.40	pCi/L
WNW0907	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0907	trtium_r	07/26/93		317.90	pCi/L
WNW0907	trtium_r	12/01/93		58.40	pCi/L
WNW0907	trtium_r	03/07/94		44.70	pCi/L
WNW0907	trtium_r	04/29/94		150.90	pCi/L
WNW0909	Cond	06/17/92		1239.00	µmhos/cm
WNW0909	Cond	07/29/92		1431.00	µmhos/cm
WNW0909	Cond	09/09/92		1412.00	µmhos/cm
WNW0909	Cond	10/20/92		1331.50	µmhos/cm
WNW0909	Cond	11/16/92		1076.00	µmhos/cm
WNW0909	Cond	12/14/92		1032.00	µmhos/cm

ND< - Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0909	Cond	01/25/93		1060.00	µmhos/cm
WNW0909	Cond	03/01/93		1029.00	µmhos/cm
WNW0909	Cond	05/03/93		1216.50	µmhos/cm
WNW0909	Cond	06/07/93		1239.50	µmhos/cm
WNW0909	Cond	07/26/93		1392.50	µmhos/cm
WNW0909	Cond	11/16/93		1438.00	µmhos/cm
WNW0909	Cond	03/09/94		1299.00	µmhos/cm
WNW0909	Cond	05/17/94		1222.00	µmhos/cm
WNW0909	NPOC	02/14/92		5.90	mg/L
WNW0909	NPOC	06/17/92		2.40	mg/L
WNW0909	NPOC	07/29/92		8.30	mg/L
WNW0909	NPOC	09/09/92		7.40	mg/L
WNW0909	NPOC	10/20/92		6.20	mg/L
WNW0909	NPOC	11/16/92		5.25	mg/L
WNW0909	NPOC	12/14/92		5.70	mg/L
WNW0909	NPOC	01/25/93		4.65	mg/L
WNW0909	NPOC	03/01/93		4.50	mg/L
WNW0909	NPOC	05/03/93		3.60	mg/L
WNW0909	NPOC	06/07/93		7.50	mg/L
WNW0909	NPOC	07/26/93		7.30	mg/L
WNW0909	NPOC	11/16/93		6.90	mg/L
WNW0909	NPOC	03/09/94		5.20	mg/L
WNW0909	NPOC	05/17/94		4.90	mg/L
WNW0909	pH	06/17/92		6.73	N/A
WNW0909	pH	07/29/92		6.48	N/A
WNW0909	pH	09/09/92		6.68	N/A
WNW0909	pH	10/20/92		6.57	N/A
WNW0909	pH	11/16/92		6.88	N/A
WNW0909	pH	12/14/92		6.45	N/A
WNW0909	pH	01/25/93		6.74	N/A
WNW0909	pH	03/01/93		6.77	N/A
WNW0909	pH	05/03/93		6.65	N/A
WNW0909	pH	06/07/93		6.51	N/A
WNW0909	pH	07/26/93		7.46	N/A
WNW0909	pH	11/16/93		6.53	N/A
WNW0909	pH	03/09/94		6.80	N/A
WNW0909	pH	05/17/94		6.75	N/A

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0909	TOX	06/17/92		9.60	µg/L
WNW0909	TOX	07/29/92		11.80	µg/L
WNW0909	TOX	09/09/92		9.90	µg/L
WNW0909	TOX	10/20/92		8.60	µg/L
WNW0909	TOX	11/16/92		4.60	µg/L
WNW0909	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0909	TOX	01/25/93		16.80	µg/L
WNW0909	TOX	03/01/93		15.60	µg/L
WNW0909	TOX	05/03/93		8.70	µg/L
WNW0909	TOX	06/07/93		23.20	µg/L
WNW0909	TOX	07/26/93		8.10	µg/L
WNW0909	TOX	11/16/93		5.40	µg/L
WNW0909	TOX	03/09/94		6.00	µg/L
WNW0909	TOX	05/17/94		6.30	µg/L
WNW0909	gr_al__r	06/17/92	ND<8.48	0.00	pCi/L
WNW0909	gr_al__r	07/29/92		3.70	pCi/L
WNW0909	gr_al__r	09/09/92		15.88	pCi/L
WNW0909	gr_al__r	10/20/92		13.32	pCi/L
WNW0909	gr_al__r	11/16/92		1.21	pCi/L
WNW0909	gr_al__r	12/14/92		3.96	pCi/L
WNW0909	gr_al__r	01/25/93	ND<3.93	-4.01	pCi/L
WNW0909	gr_al__r	03/01/93		2.22	pCi/L
WNW0909	gr_al__r	05/03/93		7.94	pCi/L
WNW0909	gr_al__r	06/07/93	ND<10.85	0.00	pCi/L
WNW0909	gr_al__r	07/26/93		2.04	pCi/L
WNW0909	gr_al__r	11/16/93	ND<8.35	0.00	pCi/L
WNW0909	gr_al__r	03/09/94	ND<4.76	-3.44	pCi/L
WNW0909	gr_al__r	05/17/94		2.26	pCi/L
WNW0909	gr_bt__r	06/17/92		81.79	pCi/L
WNW0909	gr_bt__r	07/29/92		103.70	pCi/L
WNW0909	gr_bt__r	09/09/92		138.00	pCi/L
WNW0909	gr_bt__r	10/20/92		116.60	pCi/L
WNW0909	gr_bt__r	11/16/92		93.83	pCi/L
WNW0909	gr_bt__r	12/14/92		77.97	pCi/L
WNW0909	gr_bt__r	01/25/93		76.55	pCi/L
WNW0909	gr_bt__r	03/01/93		64.05	pCi/L
WNW0909	gr_bt__r	05/03/93		65.35	pCi/L
WNW0909	gr_bt__r	06/07/93		187.40	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0909	gr_bt__r	07/26/93		132.40	pCi/L
WNW0909	gr_bt__r	11/16/93		188.10	pCi/L
WNW0909	gr_bt__r	03/09/94		120.70	pCi/L
WNW0909	gr_bt__r	05/17/94		171.50	pCi/L
WNW0909	trtium_r	06/17/92		229.12	pCi/L
WNW0909	trtium_r	07/29/92		1717.90	pCi/L
WNW0909	trtium_r	09/09/92		1342.63	pCi/L
WNW0909	trtium_r	10/20/92		966.63	pCi/L
WNW0909	trtium_r	11/16/92		1449.70	pCi/L
WNW0909	trtium_r	12/14/92		1574.25	pCi/L
WNW0909	trtium_r	01/25/93		1599.94	pCi/L
WNW0909	trtium_r	03/01/93		1218.40	pCi/L
WNW0909	trtium_r	05/03/93		762.80	pCi/L
WNW0909	trtium_r	06/07/93		1425.40	pCi/L
WNW0909	trtium_r	07/26/93		1971.80	pCi/L
WNW0909	trtium_r	11/16/93		1860.00	pCi/L
WNW0909	trtium_r	03/09/94		1675.50	pCi/L
WNW0909	trtium_r	05/17/94		2220.00	pCi/L

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	Cond	03/21/91		2810.00	µmhos/cm
WNW0908	Cond	05/06/91		2780.00	µmhos/cm
WNW0908	Cond	06/10/91		2700.00	µmhos/cm
WNW0908	Cond	07/22/91		2570.00	µmhos/cm
WNW0908	Cond	04/29/92		2995.00	µmhos/cm
WNW0908	Cond	07/27/92		2860.00	µmhos/cm
WNW0908	Cond	09/09/92		2990.00	µmhos/cm
WNW0908	Cond	10/19/92		2995.00	µmhos/cm
WNW0908	Cond	11/23/92		2850.00	µmhos/cm
WNW0908	Cond	01/25/93		2815.00	µmhos/cm
WNW0908	Cond	03/01/93		2960.00	µmhos/cm
WNW0908	Cond	05/03/93		2910.00	µmhos/cm
WNW0908	Cond	06/07/93		2880.00	µmhos/cm
WNW0908	Cond	07/27/93		2850.00	µmhos/cm
WNW0908	Cond	01/05/94		2880.00	µmhos/cm

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0908	Cond	03/07/94		3190.00	µmhos/cm
WNW0908	Cond	04/29/94		2980.00	µmhos/cm
WNW0908	NPOC	05/06/91		18.00	mg/L
WNW0908	NPOC	06/10/91		2.00	mg/L
WNW0908	NPOC	07/22/91		2.80	mg/L
WNW0908	NPOC	04/29/92		1.30	mg/L
WNW0908	NPOC	07/27/92		0.90	mg/L
WNW0908	NPOC	09/09/92		0.90	mg/L
WNW0908	NPOC	10/19/92		0.90	mg/L
WNW0908	NPOC	11/16/92		0.90	mg/L
WNW0908	NPOC	12/14/92		0.90	mg/L
WNW0908	NPOC	01/25/93		1.00	mg/L
WNW0908	NPOC	03/01/93		0.80	mg/L
WNW0908	NPOC	05/03/93		0.80	mg/L
WNW0908	NPOC	06/07/93		0.90	mg/L
WNW0908	NPOC	07/27/93		1.10	mg/L
WNW0908	NPOC	11/30/93		0.90	mg/L
WNW0908	NPOC	03/07/94		0.90	mg/L
WNW0908	NPOC	04/29/94		0.90	mg/L
WNW0908	pH	03/21/91		6.79	N/A
WNW0908	pH	05/06/91		6.81	N/A
WNW0908	pH	06/10/91		6.58	N/A
WNW0908	pH	07/22/91		6.65	N/A
WNW0908	pH	04/29/92		6.67	N/A
WNW0908	pH	07/27/92		6.60	N/A
WNW0908	pH	09/09/92		6.71	N/A
WNW0908	pH	10/19/92		6.71	N/A
WNW0908	pH	11/23/92		6.66	N/A
WNW0908	pH	01/25/93		6.68	N/A
WNW0908	pH	03/01/93		6.63	N/A
WNW0908	pH	05/03/93		6.69	N/A
WNW0908	pH	06/07/93		6.76	N/A
WNW0908	pH	07/27/93		6.81	N/A
WNW0908	pH	01/05/94		6.96	N/A
WNW0908	pH	03/07/94		7.02	N/A
WNW0908	pH	04/29/94		6.88	N/A

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0908	TOX	05/06/91		6.30	µg/L
WNW0908	TOX	06/10/91	ND<5.00	5.00	µg/L
WNW0908	TOX	07/22/91	ND<5.00	5.00	µg/L
WNW0908	TOX	04/29/92		4.60	µg/L
WNW0908	TOX	07/27/92	ND<4.00	4.00	µg/L
WNW0908	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0908	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW0908	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW0908	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0908	TOX	01/25/93	ND<2.00	2.00	µg/L
WNW0908	TOX	03/01/93	ND<2.00	2.00	µg/L
WNW0908	TOX	05/03/93	ND<2.00	2.00	µg/L
WNW0908	TOX	06/07/93		2.00	µg/L
WNW0908	TOX	07/27/93	ND<2.00	2.00	µg/L
WNW0908	TOX	11/30/93	ND<2.00	2.00	µg/L
WNW0908	TOX	03/07/94	ND<2.00	2.00	µg/L
WNW0908	TOX	04/29/94		5.60	µg/L
WNW0908	gr_al__r	03/21/91	ND<26.68	0.00	pCi/L
WNW0908	gr_al__r	05/06/91		5.90	pCi/L
WNW0908	gr_al__r	06/10/91		1.31	pCi/L
WNW0908	gr_al__r	07/22/91		9.93	pCi/L
WNW0908	gr_al__r	04/29/92		8.55	pCi/L
WNW0908	gr_al__r	07/27/92		13.55	pCi/L
WNW0908	gr_al__r	09/09/92		13.79	pCi/L
WNW0908	gr_al__r	10/19/92		17.40	pCi/L
WNW0908	gr_al__r	11/16/92		5.23	pCi/L
WNW0908	gr_al__r	12/28/92		10.14	pCi/L
WNW0908	gr_al__r	01/25/93	ND<15.47	-2.98	pCi/L
WNW0908	gr_al__r	03/01/93		6.63	pCi/L
WNW0908	gr_al__r	05/03/93		18.14	pCi/L
WNW0908	gr_al__r	06/07/93	ND<20.16	-1.64	pCi/L
WNW0908	gr_al__r	07/27/93		12.50	pCi/L
WNW0908	gr_al__r	12/01/93	ND<18.78	-12.86	pCi/L
WNW0908	gr_al__r	03/07/94		17.64	pCi/L
WNW0908	gr_al__r	05/02/94		1.87	pCi/L
WNW0908	gr_bt__r	03/21/91		11.52	pCi/L
WNW0908	gr_bt__r	05/06/91		11.84	pCi/L
WNW0908	gr_bt__r	06/10/91		16.42	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0908	gr_bt__r	07/22/91		18.71	pCi/L
WNW0908	gr_bt__r	04/29/92		11.39	pCi/L
WNW0908	gr_bt__r	07/27/92		15.86	pCi/L
WNW0908	gr_bt__r	09/09/92		11.04	pCi/L
WNW0908	gr_bt__r	10/19/92		15.86	pCi/L
WNW0908	gr_bt__r	11/16/92		10.34	pCi/L
WNW0908	gr_bt__r	12/28/92		19.54	pCi/L
WNW0908	gr_bt__r	01/25/93		10.54	pCi/L
WNW0908	gr_bt__r	03/01/93		13.32	pCi/L
WNW0908	gr_bt__r	05/03/93		13.05	pCi/L
WNW0908	gr_bt__r	06/07/93		3.09	pCi/L
WNW0908	gr_bt__r	07/27/93		5.72	pCi/L
WNW0908	gr_bt__r	12/01/93		12.99	pCi/L
WNW0908	gr_bt__r	03/07/94		15.24	pCi/L
WNW0908	gr_bt__r	05/02/94		12.85	pCi/L
WNW0908	trtium_r	03/21/91	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	09/09/91		54.66	pCi/L
WNW0908	trtium_r	04/29/92	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	07/27/92		10.20	pCi/L
WNW0908	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	12/28/92	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	03/01/93	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0908	trtium_r	07/27/93		205.50	pCi/L
WNW0908	trtium_r	12/01/93		31.30	pCi/L
WNW0908	trtium_r	03/07/94		57.50	pCi/L
WNW0908	trtium_r	05/02/94		134.20	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0904	Cond	03/21/91		671.00	µmhos/cm
WNW0904	Cond	05/06/91		721.00	µmhos/cm
WNW0904	Cond	06/10/91		819.00	µmhos/cm
WNW0904	Cond	07/22/91		889.00	µmhos/cm
WNW0904	Cond	09/09/91		868.00	µmhos/cm
WNW0904	Cond	10/14/91		928.00	µmhos/cm
WNW0904	Cond	12/02/91		950.00	µmhos/cm
WNW0904	Cond	02/06/92		1064.00	µmhos/cm
WNW0904	Cond	03/16/92		996.00	µmhos/cm
WNW0904	Cond	04/29/92		960.00	µmhos/cm
WNW0904	Cond	07/29/92		908.50	µmhos/cm
WNW0904	Cond	09/09/92		855.50	µmhos/cm
WNW0904	Cond	10/19/92		855.00	µmhos/cm
WNW0904	Cond	11/16/92		822.00	µmhos/cm
WNW0904	Cond	12/14/92		826.50	µmhos/cm
WNW0904	Cond	01/25/93		829.00	µmhos/cm
WNW0904	Cond	03/02/93		798.00	µmhos/cm
WNW0904	Cond	05/03/93		816.50	µmhos/cm
WNW0904	Cond	06/07/93		775.00	µmhos/cm
WNW0904	Cond	07/26/93		822.50	µmhos/cm
WNW0904	Cond	11/30/93		772.00	µmhos/cm
WNW0904	Cond	03/07/94		860.50	µmhos/cm
WNW0904	Cond	05/18/94		775.00	µmhos/cm
WNW0904	NPOC	05/06/91		48.00	mg/L
WNW0904	NPOC	06/10/91		3.00	mg/L
WNW0904	NPOC	07/22/91		4.30	mg/L
WNW0904	NPOC	09/09/91		3.60	mg/L
WNW0904	NPOC	10/14/91		1.10	mg/L
WNW0904	NPOC	12/12/91		13.00	mg/L
WNW0904	NPOC	02/06/92		1.10	mg/L
WNW0904	NPOC	03/16/92		1.05	mg/L
WNW0904	NPOC	04/29/92		1.45	mg/L
WNW0904	NPOC	07/29/92		0.90	mg/L
WNW0904	NPOC	09/09/92		0.80	mg/L
WNW0904	NPOC	10/19/92		0.60	mg/L
WNW0904	NPOC	11/16/92		0.80	mg/L
WNW0904	NPOC	12/14/92		0.60	mg/L
WNW0904	NPOC	01/25/93		0.70	mg/L
WNW0904	NPOC	03/02/93		0.70	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0904	NPOC	05/03/93		0.70	mg/L
WNW0904	NPOC	06/07/93		0.70	mg/L
WNW0904	NPOC	07/26/93		0.70	mg/L
WNW0904	NPOC	11/30/93		0.85	mg/L
WNW0904	NPOC	03/07/94		0.70	mg/L
WNW0904	NPOC	05/18/94		0.50	mg/L
WNW0904	pH	03/21/91		7.56	N/A
WNW0904	pH	05/06/91		7.43	N/A
WNW0904	pH	06/10/91		7.27	N/A
WNW0904	pH	07/22/91		7.23	N/A
WNW0904	pH	09/09/91		7.26	N/A
WNW0904	pH	10/14/91		7.25	N/A
WNW0904	pH	12/02/91		7.07	N/A
WNW0904	pH	02/06/92		7.06	N/A
WNW0904	pH	03/16/92		7.23	N/A
WNW0904	pH	04/29/92		7.18	N/A
WNW0904	pH	07/29/92		7.10	N/A
WNW0904	pH	09/09/92		7.18	N/A
WNW0904	pH	10/19/92		7.20	N/A
WNW0904	pH	11/16/92		7.37	N/A
WNW0904	pH	12/14/92		7.00	N/A
WNW0904	pH	01/25/93		7.36	N/A
WNW0904	pH	03/02/93		7.44	N/A
WNW0904	pH	05/03/93		7.11	N/A
WNW0904	pH	06/07/93		7.25	N/A
WNW0904	pH	07/26/93		7.76	N/A
WNW0904	pH	11/30/93		7.28	N/A
WNW0904	pH	03/07/94		7.59	N/A
WNW0904	pH	05/18/94		7.61	N/A
WNW0904	TOX	05/06/91		12.00	µg/L
WNW0904	TOX	06/10/91		5.60	µg/L
WNW0904	TOX	07/22/91	ND<5.00	5.00	µg/L
WNW0904	TOX	09/09/91	ND<5.00	5.00	µg/L
WNW0904	TOX	10/14/91	ND<5.00	5.00	µg/L
WNW0904	TOX	12/12/91		9.60	µg/L
WNW0904	TOX	02/06/92	ND<4.00	4.00	µg/L
WNW0904	TOX	03/16/92	ND<4.00	4.00	µg/L
WNW0904	TOX	04/29/92	ND<4.00	4.00	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0904	TOX	07/29/92	ND<4.00	4.00	µg/L
WNW0904	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0904	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW0904	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW0904	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0904	TOX	01/25/93	ND<2.00	2.00	µg/L
WNW0904	TOX	03/02/93	ND<2.00	2.00	µg/L
WNW0904	TOX	05/03/93	ND<2.00	2.00	µg/L
WNW0904	TOX	06/07/93	ND<2.00	2.00	µg/L
WNW0904	TOX	07/26/93	ND<2.00	2.00	µg/L
WNW0904	TOX	11/30/93	ND<2.00	2.00	µg/L
WNW0904	TOX	03/07/94		3.40	µg/L
WNW0904	TOX	05/18/94	ND<2.00	2.00	µg/L
WNW0904	gr_al__r	03/21/91		1.50	pCi/L
WNW0904	gr_al__r	05/06/91		3.73	pCi/L
WNW0904	gr_al__r	06/10/91		1.00	pCi/L
WNW0904	gr_al__r	07/22/91	ND<5.40	-3.12	pCi/L
WNW0904	gr_al__r	09/09/91		10.81	pCi/L
WNW0904	gr_al__r	10/14/91		1.76	pCi/L
WNW0904	gr_al__r	12/02/91		3.40	pCi/L
WNW0904	gr_al__r	02/06/92		1.02	pCi/L
WNW0904	gr_al__r	03/16/92		4.52	pCi/L
WNW0904	gr_al__r	04/29/92		6.19	pCi/L
WNW0904	gr_al__r	07/29/92		2.18	pCi/L
WNW0904	gr_al__r	09/09/92		3.40	pCi/L
WNW0904	gr_al__r	10/19/92		0.74	pCi/L
WNW0904	gr_al__r	11/16/92	ND<2.81	-0.83	pCi/L
WNW0904	gr_al__r	12/14/92		3.60	pCi/L
WNW0904	gr_al__r	01/25/93		3.14	pCi/L
WNW0904	gr_al__r	03/02/93		0.70	pCi/L
WNW0904	gr_al__r	05/03/93	ND<3.50	0.00	pCi/L
WNW0904	gr_al__r	06/07/93	ND<5.06	-0.72	pCi/L
WNW0904	gr_al__r	07/26/93		3.10	pCi/L
WNW0904	gr_al__r	12/09/93	ND<4.87	-3.33	pCi/L
WNW0904	gr_al__r	03/07/94		1.06	pCi/L
WNW0904	gr_al__r	05/18/94		2.45	pCi/L
WNW0904	gr_bt__r	03/21/91		1.81	pCi/L
WNW0904	gr_bt__r	05/06/91		5.05	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0904	gr_bt__r	06/10/91		2.51	pCi/L
WNW0904	gr_bt__r	07/22/91		3.42	pCi/L
WNW0904	gr_bt__r	09/09/91		5.55	pCi/L
WNW0904	gr_bt__r	10/14/91		4.42	pCi/L
WNW0904	gr_bt__r	12/02/91		5.56	pCi/L
WNW0904	gr_bt__r	02/06/92		5.71	pCi/L
WNW0904	gr_bt__r	03/16/92		1.44	pCi/L
WNW0904	gr_bt__r	04/29/92		4.39	pCi/L
WNW0904	gr_bt__r	07/29/92		1.80	pCi/L
WNW0904	gr_bt__r	09/09/92		2.53	pCi/L
WNW0904	gr_bt__r	10/19/92		3.72	pCi/L
WNW0904	gr_bt__r	11/16/92		4.25	pCi/L
WNW0904	gr_bt__r	12/14/92		4.45	pCi/L
WNW0904	gr_bt__r	01/25/93		2.43	pCi/L
WNW0904	gr_bt__r	03/02/93		5.26	pCi/L
WNW0904	gr_bt__r	05/03/93		4.68	pCi/L
WNW0904	gr_bt__r	06/07/93		6.05	pCi/L
WNW0904	gr_bt__r	07/26/93		1.31	pCi/L
WNW0904	gr_bt__r	12/09/93		3.71	pCi/L
WNW0904	gr_bt__r	03/07/94		3.98	pCi/L
WNW0904	gr_bt__r	05/18/94		2.12	pCi/L
WNW0904	trtium_r	03/21/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	09/09/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	10/14/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	12/02/91	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	02/06/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	03/16/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	04/29/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	07/29/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	03/02/93	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	05/03/93	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0904	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0904	trtium_r	07/26/93		142.90	pCi/L
WNW0904	trtium_r	12/09/93		47.90	pCi/L
WNW0904	trtium_r	03/07/94	ND<100.000	0.00	pCi/L
WNW0904	trtium_r	05/18/94	ND<100.00	0.00	pCi/L
WNW0910	Cond	11/16/92		1434.00	µmhos/cm
WNW0910	Cond	12/14/92		1422.00	µmhos/cm
WNW0910	Cond	01/25/93		1490.00	µmhos/cm
WNW0910	Cond	03/01/93		1567.00	µmhos/cm
WNW0910	Cond	05/03/93		1847.00	µmhos/cm
WNW0910	Cond	06/07/93		1842.00	µmhos/cm
WNW0910	Cond	07/26/93		1865.00	µmhos/cm
WNW0910	Cond	12/01/93		1811.00	µmhos/cm
WNW0910	Cond	03/09/94		1927.50	µmhos/cm
WNW0910	Cond	05/02/94		1847.00	µmhos/cm
WNW0910	NPOC	11/16/92		5.10	mg/L
WNW0910	NPOC	12/14/92		2.70	mg/L
WNW0910	NPOC	01/25/93		1.80	mg/L
WNW0910	NPOC	03/01/93		1.70	mg/L
WNW0910	NPOC	05/03/93		1.30	mg/L
WNW0910	NPOC	06/07/93		1.35	mg/L
WNW0910	NPOC	07/26/93		1.90	mg/L
WNW0910	NPOC	12/21/93		1.65	mg/L
WNW0910	NPOC	03/09/94		1.15	mg/L
WNW0910	NPOC	05/02/94		1.10	mg/L
WNW0910	pH	11/16/92		7.26	N/A
WNW0910	pH	12/14/92		7.04	N/A
WNW0910	pH	01/25/93		7.25	N/A
WNW0910	pH	03/01/93		7.15	N/A
WNW0910	pH	05/03/93		6.91	N/A
WNW0910	pH	06/07/93		6.89	N/A
WNW0910	pH	07/26/93		7.93	N/A
WNW0910	pH	12/01/93		7.00	N/A
WNW0910	pH	03/09/94		7.10	N/A
WNW0910	pH	05/02/94		7.07	N/A
WNW0910	TOX	11/16/92	ND<4.00	4.00	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0910	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0910	TOX	01/25/93		2.90	µg/L
WNW0910	TOX	03/01/93	ND<2.00	2.00	µg/L
WNW0910	TOX	05/03/93	ND<2.00	2.00	µg/L
WNW0910	TOX	06/07/93		2.40	µg/L
WNW0910	TOX	07/26/93	ND<2.00	2.00	µg/L
WNW0910	TOX	12/21/93		3.40	µg/L
WNW0910	TOX	03/09/94		2.00	µg/L
WNW0910	TOX	05/02/94		7.20	µg/L
WNW0910	gr_al__r	11/16/92	ND<5.04	-1.48	pCi/L
WNW0910	gr_al__r	12/14/92		15.70	pCi/L
WNW0910	gr_al__r	01/25/93		2.84	pCi/L
WNW0910	gr_al__r	03/01/93		4.83	pCi/L
WNW0910	gr_al__r	05/06/93		3.39	pCi/L
WNW0910	gr_al__r	06/07/93		4.28	pCi/L
WNW0910	gr_al__r	07/26/93		3.73	pCi/L
WNW0910	gr_al__r	12/31/93		6.47	pCi/L
WNW0910	gr_al__r	03/09/94		13.96	pCi/L
WNW0910	gr_al__r	05/31/94		19.31	pCi/L
WNW0910	gr_bt__r	11/16/92		13.57	pCi/L
WNW0910	gr_bt__r	12/14/92		11.88	pCi/L
WNW0910	gr_bt__r	01/25/93		18.04	pCi/L
WNW0910	gr_bt__r	03/01/93		29.10	pCi/L
WNW0910	gr_bt__r	05/06/93		13.75	pCi/L
WNW0910	gr_bt__r	06/07/93		10.18	pCi/L
WNW0910	gr_bt__r	07/26/93		5.10	pCi/L
WNW0910	gr_bt__r	12/31/93		5.33	pCi/L
WNW0910	gr_bt__r	03/09/94		16.60	pCi/L
WNW0910	gr_bt__r	05/31/94		12.98	pCi/L
WNW0910	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	03/01/93	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	05/06/93	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	07/26/93		123.40	pCi/L
WNW0910	trtium_r	12/31/93	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0910	trtium_r	03/09/94	ND<100.00	0.00	pCi/L
WNW0910	trtium_r	05/31/94		8.10	pCi/L

KENT RECESSIONAL

BACKGROUND

WNW1008B	Cond	04/03/91		253.00	µmhos/cm
WNW1008B	Cond	05/08/91		281.00	µmhos/cm
WNW1008B	Cond	06/12/91		289.00	µmhos/cm
WNW1008B	Cond	07/24/91		377.00	µmhos/cm
WNW1008B	Cond	09/11/91		344.00	µmhos/cm
WNW1008B	Cond	10/16/91		390.00	µmhos/cm
WNW1008B	Cond	12/05/91		429.00	µmhos/cm
WNW1008B	Cond	02/05/92		466.50	µmhos/cm
WNW1008B	Cond	03/18/92		364.50	µmhos/cm
WNW1008B	Cond	04/27/92		320.00	µmhos/cm
WNW1008B	Cond	07/29/92		352.00	µmhos/cm
WNW1008B	Cond	09/09/92		420.00	µmhos/cm
WNW1008B	Cond	10/19/92		403.00	µmhos/cm
WNW1008B	Cond	11/16/92		389.50	µmhos/cm
WNW1008B	Cond	12/17/92		360.50	µmhos/cm
WNW1008B	Cond	01/25/93		461.00	µmhos/cm
WNW1008B	Cond	03/01/93		371.50	µmhos/cm
WNW1008B	Cond	05/03/93		433.50	µmhos/cm
WNW1008B	Cond	06/07/93		403.00	µmhos/cm
WNW1008B	Cond	07/26/93		377.00	µmhos/cm
WNW1008B	Cond	11/29/93		426.00	µmhos/cm
WNW1008B	Cond	03/07/94		305.00	µmhos/cm
WNW1008B	Cond	05/26/94		311.00	µmhos/cm
WNW1008B	NPOC	05/08/91		2.00	mg/L
WNW1008B	NPOC	06/12/91		1.40	mg/L
WNW1008B	NPOC	07/24/91		1.90	mg/L
WNW1008B	NPOC	09/11/91		3.30	mg/L
WNW1008B	NPOC	10/16/91		6.70	mg/L
WNW1008B	NPOC	12/05/91		3.00	mg/L
WNW1008B	NPOC	02/05/92		0.40	mg/L
WNW1008B	NPOC	03/18/92		0.50	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008B	NPOC	04/27/92		0.60	mg/L
WNW1008B	NPOC	07/29/92		0.50	mg/L
WNW1008B	NPOC	09/09/92		0.50	mg/L
WNW1008B	NPOC	10/19/92		0.50	mg/L
WNW1008B	NPOC	11/16/92		0.40	mg/L
WNW1008B	NPOC	12/17/92		0.50	mg/L
WNW1008B	NPOC	01/25/93		0.40	mg/L
WNW1008B	NPOC	03/01/93		0.50	mg/L
WNW1008B	NPOC	05/03/93		0.40	mg/L
WNW1008B	NPOC	06/07/93		0.40	mg/L
WNW1008B	NPOC	07/26/93		0.50	mg/L
WNW1008B	NPOC	11/29/93		0.60	mg/L
WNW1008B	NPOC	03/07/94		0.40	mg/L
WNW1008B	NPOC	05/26/94		0.50	mg/L
WNW1008B	pH	04/03/91		7.63	N/A
WNW1008B	pH	05/08/91		7.52	N/A
WNW1008B	pH	06/12/91		7.31	N/A
WNW1008B	pH	07/24/91		7.58	N/A
WNW1008B	pH	09/11/91		7.48	N/A
WNW1008B	pH	10/16/91		7.52	N/A
WNW1008B	pH	12/05/91		7.52	N/A
WNW1008B	pH	02/05/92		7.73	N/A
WNW1008B	pH	03/18/92		7.52	N/A
WNW1008B	pH	04/27/92		7.50	N/A
WNW1008B	pH	07/29/92		7.72	N/A
WNW1008B	pH	09/09/92		7.78	N/A
WNW1008B	pH	10/19/92		7.58	N/A
WNW1008B	pH	11/16/92		7.46	N/A
WNW1008B	pH	12/17/92		7.78	N/A
WNW1008B	pH	01/25/93		7.63	N/A
WNW1008B	pH	03/01/93		7.83	N/A
WNW1008B	pH	05/03/93		7.81	N/A
WNW1008B	pH	06/07/93		7.56	N/A
WNW1008B	pH	07/26/93		7.49	N/A
WNW1008B	pH	11/29/93		7.88	N/A
WNW1008B	pH	03/07/94		8.13	N/A
WNW1008B	pH	05/26/94		7.99	N/A
WNW1008B	TOX	05/08/91		11.00	μg/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008B	TOX	06/12/91		18.00	µg/L
WNW1008B	TOX	07/24/91		12.00	µg/L
WNW1008B	TOX	09/11/91	ND<5.00	5.00	µg/L
WNW1008B	TOX	10/16/91		7.10	µg/L
WNW1008B	TOX	12/05/91	ND<5.00	5.00	µg/L
WNW1008B	TOX	02/05/92		11.80	µg/L
WNW1008B	TOX	03/18/92		16.60	µg/L
WNW1008B	TOX	04/27/92		6.50	µg/L
WNW1008B	TOX	07/29/92	ND<4.00	4.00	µg/L
WNW1008B	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW1008B	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW1008B	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW1008B	TOX	12/17/92	ND<4.00	4.00	µg/L
WNW1008B	TOX	01/25/93		6.20	µg/L
WNW1008B	TOX	03/01/93		5.50	µg/L
WNW1008B	TOX	05/03/93		8.40	µg/L
WNW1008B	TOX	06/07/93		7.00	µg/L
WNW1008B	TOX	07/26/93		5.20	µg/L
WNW1008B	TOX	11/29/93	ND<2.00	2.00	µg/L
WNW1008B	TOX	03/07/94		3.00	µg/L
WNW1008B	TOX	05/26/94		4.70	µg/L
WNW1008B	gr_al__r	04/03/91		0.60	pCi/L
WNW1008B	gr_al__r	05/08/91		1.48	pCi/L
WNW1008B	gr_al__r	06/12/91	ND<1.40	-1.23	pCi/L
WNW1008B	gr_al__r	07/24/91	ND<2.22	-2.15	pCi/L
WNW1008B	gr_al__r	09/11/91		0.45	pCi/L
WNW1008B	gr_al__r	10/16/91		0.75	pCi/L
WNW1008B	gr_al__r	12/05/91		1.72	pCi/L
WNW1008B	gr_al__r	02/05/92		3.03	pCi/L
WNW1008B	gr_al__r	03/18/92		1.70	pCi/L
WNW1008B	gr_al__r	04/27/92		1.57	pCi/L
WNW1008B	gr_al__r	07/29/92		2.60	pCi/L
WNW1008B	gr_al__r	09/09/92		0.49	pCi/L
WNW1008B	gr_al__r	10/19/92	ND<2.00	-1.31	pCi/L
WNW1008B	gr_al__r	11/16/92		0.85	pCi/L
WNW1008B	gr_al__r	12/17/92	ND<2.00	-0.46	pCi/L
WNW1008B	gr_al__r	01/25/93	ND<2.46	0.00	pCi/L
WNW1008B	gr_al__r	03/01/93		1.49	pCi/L
WNW1008B	gr_al__r	05/03/93	ND<1.02	0.00	pCi/L

ND< - Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008B	gr_al__r	06/07/93		0.95	pCi/L
WNW1008B	gr_al__r	07/26/93	ND<2.28	-0.52	pCi/L
WNW1008B	gr_al__r	11/30/93	ND<4.38	-0.67	pCi/L
WNW1008B	gr_al__r	03/07/94		1.10	pCi/L
WNW1008B	gr_al__r	05/26/94		1.50	pCi/L
WNW1008B	gr_bt__r	04/03/91		4.30	pCi/L
WNW1008B	gr_bt__r	05/08/91	ND<2.73	-0.54	pCi/L
WNW1008B	gr_bt__r	06/12/91		9.52	pCi/L
WNW1008B	gr_bt__r	07/24/91		4.38	pCi/L
WNW1008B	gr_bt__r	09/11/91		4.44	pCi/L
WNW1008B	gr_bt__r	10/16/91		1.99	pCi/L
WNW1008B	gr_bt__r	12/05/91		3.03	pCi/L
WNW1008B	gr_bt__r	02/05/92		4.19	pCi/L
WNW1008B	gr_bt__r	03/18/92		7.03	pCi/L
WNW1008B	gr_bt__r	04/27/92		2.27	pCi/L
WNW1008B	gr_bt__r	07/29/92		3.44	pCi/L
WNW1008B	gr_bt__r	09/09/92		4.25	pCi/L
WNW1008B	gr_bt__r	10/19/92		5.18	pCi/L
WNW1008B	gr_bt__r	11/16/92		2.72	pCi/L
WNW1008B	gr_bt__r	12/17/92		4.91	pCi/L
WNW1008B	gr_bt__r	01/25/93		2.74	pCi/L
WNW1008B	gr_bt__r	03/01/93		2.05	pCi/L
WNW1008B	gr_bt__r	05/03/93		4.74	pCi/L
WNW1008B	gr_bt__r	06/07/93		3.70	pCi/L
WNW1008B	gr_bt__r	07/26/93		2.68	pCi/L
WNW1008B	gr_bt__r	11/30/93		1.59	pCi/L
WNW1008B	gr_bt__r	03/07/94		2.66	pCi/L
WNW1008B	gr_bt__r	05/26/94		3.73	pCi/L
WNW1008B	trtium_r	04/03/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	05/08/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	06/12/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	07/24/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	09/11/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	10/16/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	12/05/91	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	02/05/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	03/18/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	04/27/92	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW1008B	trtium_r	07/29/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	12/17/92	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	03/01/93	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	07/26/93			132.50 pCi/L
WNW1008B	trtium_r	11/30/93	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	03/07/94	ND<100.00	0.00	pCi/L
WNW1008B	trtium_r	05/26/94	ND<100.00	0.00	pCi/L

KENT RECESSIONAL

DOWNGRADIENT

WNW0903	Cond	04/03/91		410.00	µmhos/cm
WNW0903	Cond	05/06/91		469.00	µmhos/cm
WNW0903	Cond	06/10/91		508.00	µmhos/cm
WNW0903	Cond	07/22/91		582.00	µmhos/cm
WNW0903	Cond	09/09/91		663.50	µmhos/cm
WNW0903	Cond	10/14/91		749.00	µmhos/cm
WNW0903	Cond	12/02/91		747.00	µmhos/cm
WNW0903	Cond	02/06/92		749.00	µmhos/cm
WNW0903	Cond	03/16/92		772.50	µmhos/cm
WNW0903	Cond	04/29/92		771.50	µmhos/cm
WNW0903	Cond	07/29/92		770.00	µmhos/cm
WNW0903	Cond	09/09/92		758.50	µmhos/cm
WNW0903	Cond	09/19/92		759.50	µmhos/cm
WNW0903	Cond	11/16/92		786.00	µmhos/cm
WNW0903	Cond	12/14/92		830.00	µmhos/cm
WNW0903	Cond	01/25/93		806.00	µmhos/cm
WNW0903	Cond	03/02/93		705.00	µmhos/cm
WNW0903	Cond	05/03/93		754.50	µmhos/cm
WNW0903	Cond	06/07/93		787.50	µmhos/cm
WNW0903	Cond	07/26/93		789.00	µmhos/cm
WNW0903	Cond	11/30/93		749.00	µmhos/cm

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0903	Cond	03/07/94		794.00	µmhos/cm
WNW0903	Cond	05/18/94		794.50	µmhos/cm
WNW0903	NPOC	05/06/91		59.00	mg/L
WNW0903	NPOC	06/10/91		13.00	mg/L
WNW0903	NPOC	07/22/91		1.70	mg/L
WNW0903	NPOC	09/09/91		3.80	mg/L
WNW0903	NPOC	10/14/91		3.40	mg/L
WNW0903	NPOC	12/02/91		2.40	mg/L
WNW0903	NPOC	02/06/92		0.80	mg/L
WNW0903	NPOC	03/16/92		0.70	mg/L
WNW0903	NPOC	04/29/92		0.80	mg/L
WNW0903	NPOC	07/29/92		0.70	mg/L
WNW0903	NPOC	09/09/92		0.80	mg/L
WNW0903	NPOC	09/19/92		0.80	mg/L
WNW0903	NPOC	11/16/92		0.80	mg/L
WNW0903	NPOC	12/14/92		0.80	mg/L
WNW0903	NPOC	01/25/93		0.80	mg/L
WNW0903	NPOC	03/02/93		0.70	mg/L
WNW0903	NPOC	05/03/93		0.80	mg/L
WNW0903	NPOC	06/07/93		0.80	mg/L
WNW0903	NPOC	07/26/93		0.80	mg/L
WNW0903	NPOC	11/30/93		0.80	mg/L
WNW0903	NPOC	03/07/94		0.70	mg/L
WNW0903	NPOC	05/18/94		0.60	mg/L
WNW0903	pH	04/03/91		9.26	N/A
WNW0903	pH	05/06/91		9.03	N/A
WNW0903	pH	06/10/91		8.62	N/A
WNW0903	pH	07/22/91		8.32	N/A
WNW0903	pH	09/09/91		7.75	N/A
WNW0903	pH	10/14/91		8.41	N/A
WNW0903	pH	12/02/91		7.31	N/A
WNW0903	pH	02/06/92		7.44	N/A
WNW0903	pH	03/16/92		7.49	N/A
WNW0903	pH	04/29/92		7.53	N/A
WNW0903	pH	07/29/92		7.44	N/A
WNW0903	pH	09/09/92		7.49	N/A
WNW0903	pH	09/19/92		7.52	N/A
WNW0903	pH	11/16/92		7.70	N/A

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0903	pH	12/14/92		7.16	N/A
WNW0903	pH	01/25/93		7.56	N/A
WNW0903	pH	03/02/93		7.87	N/A
WNW0903	pH	05/03/93		7.49	N/A
WNW0903	pH	06/07/93		7.44	N/A
WNW0903	pH	07/26/93		9.08	N/A
WNW0903	pH	11/30/93		7.63	N/A
WNW0903	pH	03/07/94		7.78	N/A
WNW0903	pH	05/18/94		7.68	N/A
WNW0903	TOX	05/06/91		98.00	µg/L
WNW0903	TOX	06/10/91		8.30	µg/L
WNW0903	TOX	07/22/91		6.80	µg/L
WNW0903	TOX	09/09/91	ND<5.00	5.00	µg/L
WNW0903	TOX	10/14/91	ND<5.00	5.00	µg/L
WNW0903	TOX	12/02/91	ND<5.00	5.00	µg/L
WNW0903	TOX	02/06/92	ND<4.00	4.00	µg/L
WNW0903	TOX	03/16/92		4.40	µg/L
WNW0903	TOX	04/29/92	ND<4.00	4.00	µg/L
WNW0903	TOX	07/29/92	ND<4.00	4.00	µg/L
WNW0903	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0903	TOX	09/19/92	ND<4.00	4.00	µg/L
WNW0903	TOX	10/19/92	ND<5.00	5.00	µg/L
WNW0903	TOX	11/16/92	ND<5.00	5.00	µg/L
WNW0903	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW0903	TOX	01/25/93	ND<2.00	2.00	µg/L
WNW0903	TOX	03/02/93	ND<2.00	2.00	µg/L
WNW0903	TOX	05/03/93	ND<2.00	2.00	µg/L
WNW0903	TOX	06/07/93	ND<2.00	2.00	µg/L
WNW0903	TOX	07/26/93	ND<2.00	2.00	µg/L
WNW0903	TOX	11/30/93		2.20	µg/L
WNW0903	TOX	03/07/94	ND<2.00	2.00	µg/L
WNW0903	TOX	05/18/94	ND<2.00	2.00	µg/L
WNW0903	gr_al__r	04/03/91		0.38	pCi/L
WNW0903	gr_al__r	05/06/91		2.09	pCi/L
WNW0903	gr_al__r	06/10/91		2.98	pCi/L
WNW0903	gr_al__r	07/22/91	ND<2.83	-1.02	pCi/L
WNW0903	gr_al__r	09/09/91		5.15	pCi/L
WNW0903	gr_al__r	10/14/91		2.52	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0903	gr_al__r	12/02/91		1.77	pCi/L
WNW0903	gr_al__r	02/06/92	ND<3.38	-0.77	pCi/L
WNW0903	gr_al__r	03/16/92	ND<1.76	0.00	pCi/L
WNW0903	gr_al__r	04/29/92	ND<2.36	0.00	pCi/L
WNW0903	gr_al__r	07/29/92		0.87	pCi/L
WNW0903	gr_al__r	09/09/92		2.72	pCi/L
WNW0903	gr_al__r	10/19/92	ND<3.14	0.00	pCi/L
WNW0903	gr_al__r	11/16/92	ND<2.69	-0.79	pCi/L
WNW0903	gr_al__r	12/14/92		2.68	pCi/L
WNW0903	gr_al__r	01/25/93	ND<3.67	0.00	pCi/L
WNW0903	gr_al__r	03/02/93		3.00	pCi/L
WNW0903	gr_al__r	05/03/93		2.42	pCi/L
WNW0903	gr_al__r	06/07/93	ND<4.34	-3.69	pCi/L
WNW0903	gr_al__r	07/26/93		0.83	pCi/L
WNW0903	gr_al__r	11/30/93	ND<4.31	-4.40	pCi/L
WNW0903	gr_al__r	03/07/94		0.96	pCi/L
WNW0903	gr_al__r	05/18/94	ND<2.37	-1.21	pCi/L
WNW0903	gr_bt__r	04/03/91		10.90	pCi/L
WNW0903	gr_bt__r	05/06/91		4.36	pCi/L
WNW0903	gr_bt__r	06/10/91		6.66	pCi/L
WNW0903	gr_bt__r	07/22/91		9.39	pCi/L
WNW0903	gr_bt__r	09/09/91		10.69	pCi/L
WNW0903	gr_bt__r	10/14/91		6.74	pCi/L
WNW0903	gr_bt__r	12/02/91		3.04	pCi/L
WNW0903	gr_bt__r	02/06/92		5.33	pCi/L
WNW0903	gr_bt__r	03/16/92		4.85	pCi/L
WNW0903	gr_bt__r	04/29/92		5.20	pCi/L
WNW0903	gr_bt__r	07/29/92		5.22	pCi/L
WNW0903	gr_bt__r	09/09/92		5.82	pCi/L
WNW0903	gr_bt__r	10/19/92		5.63	pCi/L
WNW0903	gr_bt__r	11/16/92		7.51	pCi/L
WNW0903	gr_bt__r	12/14/92		4.13	pCi/L
WNW0903	gr_bt__r	01/25/93		3.00	pCi/L
WNW0903	gr_bt__r	03/02/93		4.21	pCi/L
WNW0903	gr_bt__r	05/03/93		0.92	pCi/L
WNW0903	gr_bt__r	06/07/93		5.65	pCi/L
WNW0903	gr_bt__r	07/26/93		4.46	pCi/L
WNW0903	gr_bt__r	11/30/93		5.27	pCi/L
WNW0903	gr_bt__r	03/07/94		2.52	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0903	gr_bt__r	05/18/94		2.39	pCi/L
WNW0903	trtium_r	04/03/91	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	09/09/91	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	10/14/91	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	12/02/91		227.00	pCi/L
WNW0903	trtium_r	02/06/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	03/16/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	04/29/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	07/29/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	03/02/93	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	07/26/93		131.90	pCi/L
WNW0903	trtium_r	11/30/93	ND<100.00	0.00	pCi/L
WNW0903	trtium_r	03/07/94		16.20	pCi/L
WNW0903	trtium_r	05/18/94	ND<100.00	0.00	pCi/L
WNW8610	Cond	01/21/91		763.00	µmhos/cm
WNW8610	Cond	03/06/91		800.50	µmhos/cm
WNW8610	Cond	04/18/91		712.50	µmhos/cm
WNW8610	Cond	05/15/91		691.50	µmhos/cm
WNW8610	Cond	07/10/91		776.50	µmhos/cm
WNW8610	Cond	08/19/91		775.50	µmhos/cm
WNW8610	Cond	10/08/91		722.50	µmhos/cm
WNW8610	Cond	11/20/91		722.50	µmhos/cm
WNW8610	Cond	01/15/92		728.50	µmhos/cm
WNW8610	Cond	03/19/92		739.00	µmhos/cm
WNW8610	Cond	04/27/92		764.00	µmhos/cm
WNW8610	Cond	07/27/92		768.00	µmhos/cm
WNW8610	Cond	09/09/92		782.50	µmhos/cm
WNW8610	Cond	10/20/92		770.00	µmhos/cm

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8610	Cond	11/16/92		816.00	µmhos/cm
WNW8610	Cond	12/14/92		721.00	µmhos/cm
WNW8610	Cond	01/26/93		755.00	µmhos/cm
WNW8610	Cond	03/01/93		788.00	µmhos/cm
WNW8610	Cond	05/03/93		786.00	µmhos/cm
WNW8610	Cond	06/07/93		776.00	µmhos/cm
WNW8610	Cond	07/26/93		775.50	µmhos/cm
WNW8610	Cond	12/10/93		835.00	µmhos/cm
WNW8610	Cond	03/08/94		858.00	µmhos/cm
WNW8610	Cond	05/25/94		800.50	µmhos/cm
WNW8610	NPOC	01/21/91		4.60	mg/L
WNW8610	NPOC	03/06/91		12.00	mg/L
WNW8610	NPOC	04/18/91		1.40	mg/L
WNW8610	NPOC	05/15/91		2.30	mg/L
WNW8610	NPOC	07/15/91		1.40	mg/L
WNW8610	NPOC	08/19/91		8.40	mg/L
WNW8610	NPOC	10/08/91	ND<1.00	1.00	mg/L
WNW8610	NPOC	11/20/91		10.00	mg/L
WNW8610	NPOC	01/15/92		0.80	mg/L
WNW8610	NPOC	03/19/92		1.00	mg/L
WNW8610	NPOC	04/27/92		0.70	mg/L
WNW8610	NPOC	07/27/92		0.70	mg/L
WNW8610	NPOC	09/09/92		0.80	mg/L
WNW8610	NPOC	10/20/92		0.80	mg/L
WNW8610	NPOC	11/16/92		0.80	mg/L
WNW8610	NPOC	12/14/92		0.80	mg/L
WNW8610	NPOC	01/26/93		0.80	mg/L
WNW8610	NPOC	03/01/93		0.90	mg/L
WNW8610	NPOC	05/03/93		0.80	mg/L
WNW8610	NPOC	06/07/93		0.80	mg/L
WNW8610	NPOC	07/26/93		1.00	mg/L
WNW8610	NPOC	12/10/93		0.90	mg/L
WNW8610	NPOC	03/08/94		0.90	mg/L
WNW8610	NPOC	05/25/94		0.90	mg/L
WNW8610	pH	01/21/91		8.25	N/A
WNW8610	pH	03/06/91		7.60	N/A
WNW8610	pH	04/18/91		8.31	N/A
WNW8610	pH	05/15/91		8.05	N/A

ND< - Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8610	pH	07/10/91		8.00	N/A
WNW8610	pH	08/19/91		7.91	N/A
WNW8610	pH	10/08/91		8.09	N/A
WNW8610	pH	11/20/91		7.69	N/A
WNW8610	pH	01/15/92		7.88	N/A
WNW8610	pH	03/19/92		8.04	N/A
WNW8610	pH	04/27/92		8.24	N/A
WNW8610	pH	07/27/92		7.90	N/A
WNW8610	pH	09/09/92		8.11	N/A
WNW8610	pH	10/20/92		8.05	N/A
WNW8610	pH	11/16/92		8.43	N/A
WNW8610	pH	12/14/92		7.52	N/A
WNW8610	pH	01/26/93		8.11	N/A
WNW8610	pH	03/01/93		8.03	N/A
WNW8610	pH	05/03/93		8.04	N/A
WNW8610	pH	06/07/93		8.24	N/A
WNW8610	pH	07/26/93		9.20	N/A
WNW8610	pH	12/10/93		7.65	N/A
WNW8610	pH	03/08/94		8.13	N/A
WNW8610	pH	05/25/94		8.13	N/A
WNW8610	TOX	01/21/91	ND<0.10	0.10	µg/L
WNW8610	TOX	03/06/91		7.90	µg/L
WNW8610	TOX	04/18/91	ND<5.00	5.00	µg/L
WNW8610	TOX	05/15/91	ND<5.00	5.00	µg/L
WNW8610	TOX	07/15/91		5.60	µg/L
WNW8610	TOX	08/19/91	ND<5.00	5.00	µg/L
WNW8610	TOX	10/08/91	ND<5.00	5.00	µg/L
WNW8610	TOX	11/20/91	ND<5.00	5.00	µg/L
WNW8610	TOX	01/15/92	ND<4.00	4.00	µg/L
WNW8610	TOX	03/19/92	ND<4.00	4.00	µg/L
WNW8610	TOX	04/27/92	ND<4.00	4.00	µg/L
WNW8610	TOX	07/27/92	ND<4.00	4.00	µg/L
WNW8610	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW8610	TOX	10/20/92	ND<4.00	4.00	µg/L
WNW8610	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW8610	TOX	12/14/92	ND<4.00	4.00	µg/L
WNW8610	TOX	01/26/93	ND<2.00	2.00	µg/L
WNW8610	TOX	03/01/93	ND<2.00	2.00	µg/L
WNW8610	TOX	05/03/93	ND<2.00	2.00	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8610	TOX	06/07/93	ND<2.00	2.00	µg/L
WNW8610	TOX	07/26/93	ND<2.00	2.00	µg/L
WNW8610	TOX	12/10/93	ND<2.00	2.00	µg/L
WNW8610	TOX	03/08/94		1.40	µg/L
WNW8610	TOX	05/25/94	ND<2.00	2.00	µg/L
WNW8610	gr_al__r	01/21/91	ND<1.48	-0.75	pCi/L
WNW8610	gr_al__r	04/18/91		0.97	pCi/L
WNW8610	gr_al__r	05/15/91		0.71	pCi/L
WNW8610	gr_al__r	07/15/91		5.28	pCi/L
WNW8610	gr_al__r	08/19/91		2.97	pCi/L
WNW8610	gr_al__r	10/08/91		3.19	pCi/L
WNW8610	gr_al__r	11/20/91		2.00	pCi/L
WNW8610	gr_al__r	01/15/92		1.30	pCi/L
WNW8610	gr_al__r	03/19/92		1.22	pCi/L
WNW8610	gr_al__r	04/27/92		1.34	pCi/L
WNW8610	gr_al__r	07/27/92		0.63	pCi/L
WNW8610	gr_al__r	09/09/92	ND<2.49	0.00	pCi/L
WNW8610	gr_al__r	10/20/92		3.06	pCi/L
WNW8610	gr_al__r	11/16/92		2.08	pCi/L
WNW8610	gr_al__r	12/14/92		0.71	pCi/L
WNW8610	gr_al__r	01/26/93	ND<2.96	-0.68	pCi/L
WNW8610	gr_al__r	03/01/93	ND<2.28	-0.67	pCi/L
WNW8610	gr_al__r	05/03/93	ND<2.76	0.00	pCi/L
WNW8610	gr_al__r	06/07/93	ND<4.95	-2.29	pCi/L
WNW8610	gr_al__r	07/26/93	ND<4.73	-0.73	pCi/L
WNW8610	gr_al__r	12/10/93	ND<2.74	0.00	pCi/L
WNW8610	gr_al__r	03/08/94		7.94	pCi/L
WNW8610	gr_al__r	05/25/94	ND<2.15	-1.10	pCi/L
WNW8610	gr_bt__r	01/21/91		6.39	pCi/L
WNW8610	gr_bt__r	04/18/91		4.80	pCi/L
WNW8610	gr_bt__r	05/15/91		1.47	pCi/L
WNW8610	gr_bt__r	07/15/91		8.88	pCi/L
WNW8610	gr_bt__r	08/19/91		6.95	pCi/L
WNW8610	gr_bt__r	10/08/91		5.45	pCi/L
WNW8610	gr_bt__r	11/20/91		7.13	pCi/L
WNW8610	gr_bt__r	01/15/92		6.73	pCi/L
WNW8610	gr_bt__r	03/19/92		3.32	pCi/L
WNW8610	gr_bt__r	04/27/92		4.58	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8610	gr_bt__r	07/27/92		4.83	pCi/L
WNW8610	gr_bt__r	09/09/92		5.91	pCi/L
WNW8610	gr_bt__r	10/20/92		4.67	pCi/L
WNW8610	gr_bt__r	11/16/92		8.90	pCi/L
WNW8610	gr_bt__r	12/14/92		7.38	pCi/L
WNW8610	gr_bt__r	01/26/93		3.62	pCi/L
WNW8610	gr_bt__r	03/01/93		6.46	pCi/L
WNW8610	gr_bt__r	05/03/93		5.29	pCi/L
WNW8610	gr_bt__r	06/07/93		9.24	pCi/L
WNW8610	gr_bt__r	07/26/93		6.63	pCi/L
WNW8610	gr_bt__r	12/10/93		2.50	pCi/L
WNW8610	gr_bt__r	03/08/94		4.69	pCi/L
WNW8610	gr_bt__r	05/25/94		11.24	pCi/L
WNW8610	trtium_r	01/21/91	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	04/18/91	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	05/15/91	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	07/15/91	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	08/19/91	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	10/08/91	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	11/20/91		2.19	pCi/L
WNW8610	trtium_r	01/15/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	03/19/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	04/27/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	07/27/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	10/20/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	01/26/93	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	03/01/93	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	07/26/93		122.30	pCi/L
WNW8610	trtium_r	12/10/93		29.00	pCi/L
WNW8610	trtium_r	03/08/94	ND<100.00	0.00	pCi/L
WNW8610	trtium_r	05/25/94	ND<100.00	0.00	pCi/L
WNW8611	Cond	01/17/91		856.00	µmhos/cm
WNW8611	Cond	02/19/91		938.00	µmhos/cm

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8611	Cond	04/16/91		882.00	µmhos/cm
WNW8611	Cond	05/16/91		913.00	µmhos/cm
WNW8611	Cond	07/10/91		908.00	µmhos/cm
WNW8611	Cond	08/21/91		933.50	µmhos/cm
WNW8611	Cond	10/08/91		924.00	µmhos/cm
WNW8611	Cond	11/20/91		889.00	µmhos/cm
WNW8611	Cond	01/15/92		977.00	µmhos/cm
WNW8611	Cond	03/18/92		927.00	µmhos/cm
WNW8611	Cond	04/27/92		949.50	µmhos/cm
WNW8611	Cond	07/29/92		972.00	µmhos/cm
WNW8611	Cond	09/09/92		926.50	µmhos/cm
WNW8611	Cond	10/20/92		949.50	µmhos/cm
WNW8611	Cond	11/16/92		952.50	µmhos/cm
WNW8611	Cond	12/15/92		938.50	µmhos/cm
WNW8611	Cond	01/26/93		939.00	µmhos/cm
WNW8611	Cond	03/02/93		929.00	µmhos/cm
WNW8611	Cond	05/03/93		884.00	µmhos/cm
WNW8611	Cond	06/07/93		954.00	µmhos/cm
WNW8611	Cond	07/26/93		935.00	µmhos/cm
WNW8611	Cond	12/09/93		1012.00	µmhos/cm
WNW8611	Cond	03/08/94		937.00	µmhos/cm
WNW8611	Cond	05/26/94		1030.00	µmhos/cm
WNW8611	NPOC	01/17/91		1.20	mg/L
WNW8611	NPOC	02/19/91		8.70	mg/L
WNW8611	NPOC	04/16/91		13.00	mg/L
WNW8611	NPOC	05/16/91		1.10	mg/L
WNW8611	NPOC	08/21/91		1.70	mg/L
WNW8611	NPOC	10/08/91	ND<1.00	1.00	mg/L
WNW8611	NPOC	11/20/91		1.90	mg/L
WNW8611	NPOC	01/15/92		0.75	mg/L
WNW8611	NPOC	03/18/92		0.80	mg/L
WNW8611	NPOC	04/27/92		1.10	mg/L
WNW8611	NPOC	07/29/92		0.60	mg/L
WNW8611	NPOC	09/09/92		0.90	mg/L
WNW8611	NPOC	10/20/92		0.70	mg/L
WNW8611	NPOC	11/16/92		0.70	mg/L
WNW8611	NPOC	12/15/92		0.80	mg/L
WNW8611	NPOC	01/26/93		0.90	mg/L
WNW8611	NPOC	03/02/93		0.70	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8611	NPOC	05/03/93		0.70	mg/L
WNW8611	NPOC	06/07/93		0.60	mg/L
WNW8611	NPOC	07/26/93		0.80	mg/L
WNW8611	NPOC	12/01/93		0.90	mg/L
WNW8611	NPOC	03/08/94		0.70	mg/L
WNW8611	NPOC	05/26/94		0.90	mg/L
WNW8611	pH	01/17/91		7.53	N/A
WNW8611	pH	02/19/91		7.62	N/A
WNW8611	pH	04/16/91		7.92	N/A
WNW8611	pH	05/16/91		7.65	N/A
WNW8611	pH	07/10/91		7.48	N/A
WNW8611	pH	08/21/91		7.41	N/A
WNW8611	pH	10/08/91		7.25	N/A
WNW8611	pH	11/20/91		7.44	N/A
WNW8611	pH	01/15/92		7.13	N/A
WNW8611	pH	03/18/92		7.37	N/A
WNW8611	pH	04/27/92		7.43	N/A
WNW8611	pH	07/29/92		7.57	N/A
WNW8611	pH	09/09/92		7.54	N/A
WNW8611	pH	10/20/92		7.43	N/A
WNW8611	pH	11/16/92		7.79	N/A
WNW8611	pH	12/15/92		7.68	N/A
WNW8611	pH	01/26/93		7.79	N/A
WNW8611	pH	03/02/93		7.66	N/A
WNW8611	pH	05/03/93		7.73	N/A
WNW8611	pH	06/07/93		7.68	N/A
WNW8611	pH	07/26/93		7.83	N/A
WNW8611	pH	12/09/93		7.63	N/A
WNW8611	pH	03/08/94		7.95	N/A
WNW8611	pH	05/26/94		7.30	N/A
WNW8611	TOX	01/17/91	ND<5.00	5.00	µg/L
WNW8611	TOX	02/19/91		10.00	µg/L
WNW8611	TOX	04/16/91	ND<5.00	5.00	µg/L
WNW8611	TOX	05/16/91	ND<5.00	5.00	µg/L
WNW8611	TOX	08/21/91		20.00	µg/L
WNW8611	TOX	10/08/91	ND<5.00	5.00	µg/L
WNW8611	TOX	11/20/91	ND<5.00	5.00	µg/L
WNW8611	TOX	01/15/92	ND<4.00	4.00	µg/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8611	TOX	03/18/92	ND<4.00	4.00	µg/L
WNW8611	TOX	04/27/92	ND<4.00	4.00	µg/L
WNW8611	TOX	07/29/92	ND<4.00	4.00	µg/L
WNW8611	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW8611	TOX	10/20/92	ND<4.00	4.00	µg/L
WNW8611	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW8611	TOX	12/15/92	ND<4.00	4.00	µg/L
WNW8611	TOX	01/26/93	ND<2.00	2.00	µg/L
WNW8611	TOX	03/02/93	ND<2.00	2.00	µg/L
WNW8611	TOX	05/03/93	ND<2.00	2.00	µg/L
WNW8611	TOX	06/07/93	ND<2.00	2.00	µg/L
WNW8611	TOX	07/26/93	ND<2.00	2.00	µg/L
WNW8611	TOX	12/01/93	ND<2.00	2.00	µg/L
WNW8611	TOX	03/08/94		7.50	µg/L
WNW8611	TOX	05/26/94	ND<2.00	2.00	µg/L
WNW8611	gr_al__r	02/19/91		1.55	pCi/L
WNW8611	gr_al__r	04/16/91		0.97	pCi/L
WNW8611	gr_al__r	05/16/91		8.78	pCi/L
WNW8611	gr_al__r	07/15/91		2.01	pCi/L
WNW8611	gr_al__r	08/21/91		2.95	pCi/L
WNW8611	gr_al__r	10/08/91		0.86	pCi/L
WNW8611	gr_al__r	11/20/91		8.44	pCi/L
WNW8611	gr_al__r	01/15/92		3.49	pCi/L
WNW8611	gr_al__r	03/18/92		2.95	pCi/L
WNW8611	gr_al__r	04/27/92	ND<3.94	0.00	pCi/L
WNW8611	gr_al__r	07/29/92		2.26	pCi/L
WNW8611	gr_al__r	09/09/92		0.92	pCi/L
WNW8611	gr_al__r	10/20/92		3.16	pCi/L
WNW8611	gr_al__r	11/16/92	ND<3.03	-0.89	pCi/L
WNW8611	gr_al__r	12/15/92		5.90	pCi/L
WNW8611	gr_al__r	01/26/93	ND<3.16	0.00	pCi/L
WNW8611	gr_al__r	03/02/93	-	3.07	pCi/L
WNW8611	gr_al__r	05/03/93		3.43	pCi/L
WNW8611	gr_al__r	06/07/93	ND<2.65	-0.78	pCi/L
WNW8611	gr_al__r	07/26/93	ND<3.83	0.00	pCi/L
WNW8611	gr_al__r	12/09/93	ND<6.40	-4.62	pCi/L
WNW8611	gr_al__r	03/08/94	ND<4.56	0.00	pCi/L
WNW8611	gr_al__r	05/26/94	ND<3.63	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8611	gr_bt__r	02/19/91		4.94	pCi/L
WNW8611	gr_bt__r	04/16/91		2.90	pCi/L
WNW8611	gr_bt__r	05/16/91		0.16	pCi/L
WNW8611	gr_bt__r	07/15/91		5.57	pCi/L
WNW8611	gr_bt__r	08/21/91		6.57	pCi/L
WNW8611	gr_bt__r	10/08/91		3.12	pCi/L
WNW8611	gr_bt__r	11/20/91		2.39	pCi/L
WNW8611	gr_bt__r	01/15/92		3.33	pCi/L
WNW8611	gr_bt__r	03/18/92		5.05	pCi/L
WNW8611	gr_bt__r	04/27/92		1.56	pCi/L
WNW8611	gr_bt__r	07/29/92		5.75	pCi/L
WNW8611	gr_bt__r	09/09/92		5.28	pCi/L
WNW8611	gr_bt__r	10/20/92		5.38	pCi/L
WNW8611	gr_bt__r	11/16/92		3.66	pCi/L
WNW8611	gr_bt__r	12/15/92		0.81	pCi/L
WNW8611	gr_bt__r	01/26/93		3.35	pCi/L
WNW8611	gr_bt__r	03/02/93		1.93	pCi/L
WNW8611	gr_bt__r	05/03/93		1.39	pCi/L
WNW8611	gr_bt__r	06/07/93		4.03	pCi/L
WNW8611	gr_bt__r	07/26/93		5.26	pCi/L
WNW8611	gr_bt__r	12/09/93		0.24	pCi/L
WNW8611	gr_bt__r	03/08/94		1.97	pCi/L
WNW8611	gr_bt__r	05/26/94		7.15	pCi/L
WNW8611	trtium_r	02/19/91	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	04/16/91	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	05/16/91	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	07/15/91	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	08/21/91		17.39	pCi/L
WNW8611	trtium_r	10/08/91	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	11/20/91		4.77	pCi/L
WNW8611	trtium_r	01/15/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	03/18/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	04/27/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	07/29/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	10/20/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	12/15/92	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	01/26/93	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW8611	trtium_r	03/02/93	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	07/26/93		119.50	pCi/L
WNW8611	trtium_r	12/09/93	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	03/08/94	ND<100.00	0.00	pCi/L
WNW8611	trtium_r	05/26/94	ND<100.00	0.00	pCi/L

KENT RECESSIONAL

UPGRADIENT

WNW0901	Cond	04/04/91		359.00	µmhos/cm
WNW0901	Cond	05/06/91		383.00	µmhos/cm
WNW0901	Cond	06/10/91		370.00	µmhos/cm
WNW0901	Cond	07/22/91		365.00	µmhos/cm
WNW0901	Cond	09/09/91		366.50	µmhos/cm
WNW0901	Cond	10/14/91		375.00	µmhos/cm
WNW0901	Cond	12/02/91		372.00	µmhos/cm
WNW0901	Cond	02/06/92		385.00	µmhos/cm
WNW0901	Cond	03/16/92		401.50	µmhos/cm
WNW0901	Cond	04/27/92		389.00	µmhos/cm
WNW0901	Cond	07/27/92		382.50	µmhos/cm
WNW0901	Cond	09/09/92		382.50	µmhos/cm
WNW0901	Cond	10/20/92		383.00	µmhos/cm
WNW0901	Cond	12/01/92		381.50	µmhos/cm
WNW0901	Cond	12/17/92		383.00	µmhos/cm
WNW0901	Cond	01/26/93		374.00	µmhos/cm
WNW0901	Cond	03/02/93		383.50	µmhos/cm
WNW0901	Cond	05/03/93		383.50	µmhos/cm
WNW0901	Cond	06/07/93		376.00	µmhos/cm
WNW0901	Cond	07/27/93		373.00	µmhos/cm
WNW0901	Cond	11/30/93		379.00	µmhos/cm
WNW0901	Cond	03/07/94		420.00	µmhos/cm
WNW0901	Cond	05/18/94		386.00	µmhos/cm
WNW0901	NPOC	05/06/91		3.90	mg/L
WNW0901	NPOC	06/10/91		1.20	mg/L
WNW0901	NPOC	07/22/91		9.90	mg/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0901	NPOC	09/09/91	ND<1.00	1.00	mg/L
WNW0901	NPOC	10/14/91		20.00	mg/L
WNW0901	NPOC	12/02/91		2.90	mg/L
WNW0901	NPOC	02/06/92		0.50	mg/L
WNW0901	NPOC	03/16/92		0.50	mg/L
WNW0901	NPOC	04/27/92		0.60	mg/L
WNW0901	NPOC	07/27/92		0.40	mg/L
WNW0901	NPOC	09/09/92		0.60	mg/L
WNW0901	NPOC	10/20/92		0.60	mg/L
WNW0901	NPOC	12/01/92		0.70	mg/L
WNW0901	NPOC	12/17/92		0.70	mg/L
WNW0901	NPOC	01/26/93		0.40	mg/L
WNW0901	NPOC	03/02/93		0.50	mg/L
WNW0901	NPOC	05/03/93		0.50	mg/L
WNW0901	NPOC	06/07/93		0.60	mg/L
WNW0901	NPOC	07/27/93		0.50	mg/L
WNW0901	NPOC	11/30/93		0.60	mg/L
WNW0901	NPOC	03/07/94		0.50	mg/L
WNW0901	NPOC	05/18/94		0.50	mg/L
WNW0901	pH	04/04/91		7.93	N/A
WNW0901	pH	05/06/91		7.84	N/A
WNW0901	pH	06/10/91		7.70	N/A
WNW0901	pH	07/22/91		7.73	N/A
WNW0901	pH	09/09/91		7.47	N/A
WNW0901	pH	10/14/91		7.74	N/A
WNW0901	pH	12/02/91		7.37	N/A
WNW0901	pH	02/06/92		7.58	N/A
WNW0901	pH	03/16/92		7.65	N/A
WNW0901	pH	04/27/92		7.59	N/A
WNW0901	pH	07/27/92		7.73	N/A
WNW0901	pH	09/09/92		7.51	N/A
WNW0901	pH	10/20/92		7.63	N/A
WNW0901	pH	12/01/92		7.43	N/A
WNW0901	pH	12/17/92		7.77	N/A
WNW0901	pH	01/26/93		7.77	N/A
WNW0901	pH	03/02/93		7.74	N/A
WNW0901	pH	05/03/93		7.61	N/A
WNW0901	pH	06/07/93		7.62	N/A
WNW0901	pH	07/27/93		7.60	N/A

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0901	pH	11/30/93		7.58	N/A
WNW0901	pH	03/07/94		7.78	N/A
WNW0901	pH	05/18/94		8.05	N/A
WNW0901	TOX	05/06/91		8.60	µg/L
WNW0901	TOX	06/10/91		12.00	µg/L
WNW0901	TOX	07/22/91	ND<5.00	5.00	µg/L
WNW0901	TOX	09/09/91	ND<5.00	5.00	µg/L
WNW0901	TOX	10/14/91		5.20	µg/L
WNW0901	TOX	12/02/91	ND<5.00	5.00	µg/L
WNW0901	TOX	02/06/92	ND<4.00	4.00	µg/L
WNW0901	TOX	03/16/92		6.80	µg/L
WNW0901	TOX	04/27/92	ND<4.00	4.00	µg/L
WNW0901	TOX	07/27/92	ND<4.00	4.00	µg/L
WNW0901	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0901	TOX	10/20/92	ND<4.00	4.00	µg/L
WNW0901	TOX	12/01/92	ND<4.00	4.00	µg/L
WNW0901	TOX	12/17/92	ND<4.00	4.00	µg/L
WNW0901	TOX	01/26/93	ND<2.00	2.00	µg/L
WNW0901	TOX	03/02/93	ND<2.00	2.00	µg/L
WNW0901	TOX	05/03/93	ND<2.00	2.00	µg/L
WNW0901	TOX	06/07/93		9.20	µg/L
WNW0901	TOX	07/27/93	ND<2.00	2.00	µg/L
WNW0901	TOX	11/30/93	ND<2.00	2.00	µg/L
WNW0901	TOX	03/07/94	ND<2.00	2.00	µg/L
WNW0901	TOX	05/18/94	ND<2.00	2.00	µg/L
WNW0901	gr_al__r	04/04/91		1.62	pCi/L
WNW0901	gr_al__r	05/06/91	ND<2.46	-0.79	pCi/L
WNW0901	gr_al__r	06/10/91		2.81	pCi/L
WNW0901	gr_al__r	07/22/91	ND<2.22	-1.29	pCi/L
WNW0901	gr_al__r	09/09/91		1.65	pCi/L
WNW0901	gr_al__r	10/14/91	ND<1.65	0.00	pCi/L
WNW0901	gr_al__r	12/02/91		0.91	pCi/L
WNW0901	gr_al__r	02/06/92		0.74	pCi/L
WNW0901	gr_al__r	03/16/92		0.39	pCi/L
WNW0901	gr_al__r	04/27/92		1.65	pCi/L
WNW0901	gr_al__r	07/27/92		0.47	pCi/L
WNW0901	gr_al__r	09/09/92		1.62	pCi/L
WNW0901	gr_al__r	10/20/92	ND<1.19	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0901	gr_al__r	12/01/92	ND<1.11	0.00	pCi/L
WNW0901	gr_al__r	12/17/92	ND<1.54	-0.79	pCi/L
WNW0901	gr_al__r	01/26/93		0.40	pCi/L
WNW0901	gr_al__r	03/02/93		3.08	pCi/L
WNW0901	gr_al__r	05/03/93	ND<2.36	-1.36	pCi/L
WNW0901	gr_al__r	06/07/93		2.02	pCi/L
WNW0901	gr_al__r	07/27/93		1.44	pCi/L
WNW0901	gr_al__r	11/30/93	ND<2.94	-0.57	pCi/L
WNW0901	gr_al__r	03/07/94	ND<2.09	-0.62	pCi/L
WNW0901	gr_al__r	05/18/94	ND<1.80	0.00	pCi/L
WNW0901	gr_bt__r	04/04/91		6.51	pCi/L
WNW0901	gr_bt__r	05/06/91		6.22	pCi/L
WNW0901	gr_bt__r	06/10/91		5.40	pCi/L
WNW0901	gr_bt__r	07/22/91		6.29	pCi/L
WNW0901	gr_bt__r	09/09/91		8.26	pCi/L
WNW0901	gr_bt__r	10/14/91		7.67	pCi/L
WNW0901	gr_bt__r	12/02/91		7.13	pCi/L
WNW0901	gr_bt__r	02/06/92		7.22	pCi/L
WNW0901	gr_bt__r	03/16/92		3.55	pCi/L
WNW0901	gr_bt__r	04/27/92		8.54	pCi/L
WNW0901	gr_bt__r	07/27/92		7.68	pCi/L
WNW0901	gr_bt__r	09/09/92		2.28	pCi/L
WNW0901	gr_bt__r	10/20/92		4.88	pCi/L
WNW0901	gr_bt__r	12/01/92		6.39	pCi/L
WNW0901	gr_bt__r	12/17/92		5.66	pCi/L
WNW0901	gr_bt__r	01/26/93		6.54	pCi/L
WNW0901	gr_bt__r	03/02/93		1.88	pCi/L
WNW0901	gr_bt__r	05/03/93		8.23	pCi/L
WNW0901	gr_bt__r	06/07/93		6.22	pCi/L
WNW0901	gr_bt__r	07/27/93		3.97	pCi/L
WNW0901	gr_bt__r	11/30/93		3.68	pCi/L
WNW0901	gr_bt__r	03/07/94		6.32	pCi/L
WNW0901	gr_bt__r	05/18/94		6.26	pCi/L
WNW0901	trtium_r	04/04/91	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	09/09/91	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0901	trtium_r	10/14/91	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	12/02/91		320.00	pCi/L
WNW0901	trtium_r	02/06/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	03/16/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	04/27/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	07/27/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	10/20/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	12/01/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	12/17/92	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	01/26/93	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	03/02/93	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	07/27/93		138.40	pCi/L
WNW0901	trtium_r	11/30/93	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	03/07/94	ND<100.00	0.00	pCi/L
WNW0901	trtium_r	05/18/94		8.70	pCi/L
WNW0902	Cond	04/04/91		406.00	µmhos/cm
WNW0902	Cond	05/06/91		347.00	µmhos/cm
WNW0902	Cond	06/10/91		420.00	µmhos/cm
WNW0902	Cond	07/22/91		419.00	µmhos/cm
WNW0902	Cond	09/09/91		433.00	µmhos/cm
WNW0902	Cond	10/14/91		425.00	µmhos/cm
WNW0902	Cond	12/02/91		427.50	µmhos/cm
WNW0902	Cond	02/06/92		422.00	µmhos/cm
WNW0902	Cond	03/16/92		444.50	µmhos/cm
WNW0902	Cond	04/29/92		446.00	µmhos/cm
WNW0902	Cond	07/27/92		417.00	µmhos/cm
WNW0902	Cond	09/09/92		439.50	µmhos/cm
WNW0902	Cond	10/19/92		363.50	µmhos/cm
WNW0902	Cond	11/16/92		452.50	µmhos/cm
WNW0902	Cond	12/14/92		451.00	µmhos/cm
WNW0902	Cond	01/25/93		446.50	µmhos/cm
WNW0902	Cond	03/01/93		449.50	µmhos/cm
WNW0902	Cond	05/03/93		451.50	µmhos/cm
WNW0902	Cond	06/07/93		451.00	µmhos/cm
WNW0902	Cond	07/27/93		440.50	µmhos/cm
WNW0902	Cond	11/30/93		446.00	µmhos/cm

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0902	Cond	03/07/94		450.50	µmhos/cm
WNW0902	Cond	05/18/94		460.50	µmhos/cm
WNW0902	NPOC	05/06/91	ND<1.00	1.00	mg/L
WNW0902	NPOC	06/10/91	ND<1.00	1.00	mg/L
WNW0902	NPOC	07/22/91		1.80	mg/L
WNW0902	NPOC	09/09/91		1.60	mg/L
WNW0902	NPOC	10/14/91		16.00	mg/L
WNW0902	NPOC	12/02/91		2.20	mg/L
WNW0902	NPOC	02/06/92		0.60	mg/L
WNW0902	NPOC	03/16/92		0.60	mg/L
WNW0902	NPOC	04/29/92		0.45	mg/L
WNW0902	NPOC	07/27/92		0.40	mg/L
WNW0902	NPOC	09/09/92		0.40	mg/L
WNW0902	NPOC	10/19/92		0.40	mg/L
WNW0902	NPOC	11/16/92		0.50	mg/L
WNW0902	NPOC	12/14/92		0.60	mg/L
WNW0902	NPOC	01/25/93		0.40	mg/L
WNW0902	NPOC	03/01/93		0.45	mg/L
WNW0902	NPOC	05/03/93		0.50	mg/L
WNW0902	NPOC	06/07/93		0.50	mg/L
WNW0902	NPOC	07/27/93		0.60	mg/L
WNW0902	NPOC	11/30/93		0.50	mg/L
WNW0902	NPOC	03/07/94		0.40	mg/L
WNW0902	NPOC	05/18/94		0.40	mg/L
WNW0902	pH	04/04/91		8.52	N/A
WNW0902	pH	05/06/91		9.88	N/A
WNW0902	pH	06/10/91		8.14	N/A
WNW0902	pH	07/22/91		8.25	N/A
WNW0902	pH	09/09/91		8.09	N/A
WNW0902	pH	10/14/91		7.87	N/A
WNW0902	pH	12/02/91		7.94	N/A
WNW0902	pH	02/06/92		8.27	N/A
WNW0902	pH	03/16/92		7.77	N/A
WNW0902	pH	04/29/92		7.94	N/A
WNW0902	pH	07/27/92		8.27	N/A
WNW0902	pH	09/09/92		8.47	N/A
WNW0902	pH	10/19/92		7.86	N/A
WNW0902	pH	11/16/92		7.92	N/A

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0902	pH	12/14/92		7.54	N/A
WNW0902	pH	01/25/93		8.01	N/A
WNW0902	pH	03/01/93		7.57	N/A
WNW0902	pH	05/03/93		7.90	N/A
WNW0902	pH	06/07/93		7.86	N/A
WNW0902	pH	07/27/93		7.88	N/A
WNW0902	pH	11/30/93		7.93	N/A
WNW0902	pH	03/07/94		8.47	N/A
WNW0902	pH	05/18/94		8.11	N/A
WNW0902	TOX	05/06/91		20.00	µg/L
WNW0902	TOX	06/10/91		13.00	µg/L
WNW0902	TOX	07/22/91		21.00	µg/L
WNW0902	TOX	09/09/91	ND<5.00	5.00	µg/L
WNW0902	TOX	10/14/91	ND<5.00	5.00	µg/L
WNW0902	TOX	12/02/91	ND<5.00	5.00	µg/L
WNW0902	TOX	02/06/92	ND<4.00	4.00	µg/L
WNW0902	TOX	03/16/92		6.50	µg/L
WNW0902	TOX	04/29/92		4.20	µg/L
WNW0902	TOX	07/27/92	ND<4.00	4.00	µg/L
WNW0902	TOX	09/09/92	ND<4.00	4.00	µg/L
WNW0902	TOX	10/19/92	ND<4.00	4.00	µg/L
WNW0902	TOX	11/16/92	ND<4.00	4.00	µg/L
WNW0902	TOX	12/14/92		5.40	µg/L
WNW0902	TOX	01/25/93	ND<2.00	2.00	µg/L
WNW0902	TOX	03/01/93	ND<2.00	2.00	µg/L
WNW0902	TOX	05/03/93		2.40	µg/L
WNW0902	TOX	06/07/93	ND<2.00	2.00	µg/L
WNW0902	TOX	07/27/93		2.20	µg/L
WNW0902	TOX	11/30/93		8.00	µg/L
WNW0902	TOX	03/07/94	ND<2.00	2.00	µg/L
WNW0902	TOX	05/18/94		4.60	µg/L
WNW0902	gr_al__r	04/04/91		1.56	pCi/L
WNW0902	gr_al__r	05/06/91	ND<3.15	0.00	pCi/L
WNW0902	gr_al__r	06/10/91		4.17	pCi/L
WNW0902	gr_al__r	07/22/91		1.31	pCi/L
WNW0902	gr_al__r	09/09/91		2.02	pCi/L
WNW0902	gr_al__r	10/14/91		3.24	pCi/L
WNW0902	gr_al__r	12/02/91		0.99	pCi/L

ND< - Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0902	gr_al__r	02/06/92		0.83	pCi/L
WNW0902	gr_al__r	03/16/92		0.43	pCi/L
WNW0902	gr_al__r	04/29/92		1.03	pCi/L
WNW0902	gr_al__r	07/27/92	ND<2.37	-0.54	pCi/L
WNW0902	gr_al__r	09/09/92		1.51	pCi/L
WNW0902	gr_al__r	10/19/92	ND<2.12	-0.48	pCi/L
WNW0902	gr_al__r	11/16/92		2.35	pCi/L
WNW0902	gr_al__r	12/14/92		0.94	pCi/L
WNW0902	gr_al__r	01/25/93	ND<2.19	-0.92	pCi/L
WNW0902	gr_al__r	03/01/93		1.41	pCi/L
WNW0902	gr_al__r	05/03/93	ND<2.19	-1.50	pCi/L
WNW0902	gr_al__r	06/07/93		0.48	pCi/L
WNW0902	gr_al__r	07/27/93		1.11	pCi/L
WNW0902	gr_al__r	11/30/93	ND<3.06	-1.28	pCi/L
WNW0902	gr_al__r	03/07/94		3.88	pCi/L
WNW0902	gr_al__r	05/18/94		0.84	pCi/L
WNW0902	gr_bt__r	04/04/91		6.62	pCi/L
WNW0902	gr_bt__r	05/06/91		3.60	pCi/L
WNW0902	gr_bt__r	06/10/91		7.19	pCi/L
WNW0902	gr_bt__r	07/22/91		2.74	pCi/L
WNW0902	gr_bt__r	09/09/91		4.40	pCi/L
WNW0902	gr_bt__r	10/14/91		4.71	pCi/L
WNW0902	gr_bt__r	12/02/91		1.62	pCi/L
WNW0902	gr_bt__r	02/06/92		5.90	pCi/L
WNW0902	gr_bt__r	03/16/92		4.02	pCi/L
WNW0902	gr_bt__r	04/29/92		3.67	pCi/L
WNW0902	gr_bt__r	07/27/92		4.58	pCi/L
WNW0902	gr_bt__r	09/09/92		1.32	pCi/L
WNW0902	gr_bt__r	10/19/92		4.82	pCi/L
WNW0902	gr_bt__r	11/16/92		5.09	pCi/L
WNW0902	gr_bt__r	12/14/92		3.34	pCi/L
WNW0902	gr_bt__r	01/25/93		2.75	pCi/L
WNW0902	gr_bt__r	03/01/93		3.06	pCi/L
WNW0902	gr_bt__r	05/03/93		5.61	pCi/L
WNW0902	gr_bt__r	06/07/93		5.14	pCi/L
WNW0902	gr_bt__r	07/27/93		6.65	pCi/L
WNW0902	gr_bt__r	11/30/93		5.36	pCi/L
WNW0902	gr_bt__r	03/07/94		2.69	pCi/L
WNW0902	gr_bt__r	05/18/94		1.30	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

KENT RECESSIONAL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS
WNW0902	trtium_r	04/04/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	05/06/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	06/10/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	07/22/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	09/09/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	10/14/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	12/02/91	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	02/06/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	03/16/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	04/29/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	07/27/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	09/09/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	10/19/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	11/16/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	12/14/92	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	01/25/93	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	03/01/93	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	05/03/93	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	06/07/93	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	07/27/93		126.40	pCi/L
WNW0902	trtium_r	11/30/93	ND<100.00	0.00	pCi/L
WNW0902	trtium_r	03/07/94		8.70	pCi/L
WNW0902	trtium_r	05/18/94	ND<100.00	0.00	pCi/L

ND< = Compound Not Detected

RFI: 0003008.RM

THIS PAGE INTENTIONALLY LEFT BLANK

Appendix F

Expanded Groundwater Program Data

THIS PAGE INTENTIONALLY LEFT BLANK

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	acetone	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	benzene	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	br_meth	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	brdcmeth	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	brform	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	c_13_dcp	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	ccl4	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	cl_benz	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	cl_eth	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	cl_form	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	cl_meth	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	cs2	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	dbc_meth	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	dca_11	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	dca_12	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	dce_11	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	dce_12_t	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	dcp_12	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	eth_benz	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	hexnone2	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	mek	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	mene_cl	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	mibk	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	styrene	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	t_13_dcp	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	tca_111	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	tca_112	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	tca_1122	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	tcb_124	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	tetcleth	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	toluene	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	tricleth	11/29/93	ND<5.00	5.00	µg/L	93-12833	
WNW1008C	vnyl_cl	11/29/93	ND<10.00	10.00	µg/L	93-12833	
WNW1008C	xylene	11/29/93	ND<5.00	5.00	µg/L	93-12833	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	acetone	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	acnitril	11/16/93	ND<100.00	100.00	µg/L	93-12390	
WNNDATR	acrolein	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	acrynitr	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	allylcl	11/16/93	ND<100.00	100.00	µg/L	93-12390	UJ
WNNDATR	benzene	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	br_meth	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	brdcmeth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	brform	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	c_13_dcp	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	ccl4	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	cl_benz	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	cl_eth	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	cl_form	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	cl_meth	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	cl_prene	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	clevethr	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	cs2	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dbc_meth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dbc_prop	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dbeth_12	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dca_11	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dca_12	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dcdfmeth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dce_11	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	dcp_12	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	diox_14	11/16/93		2.00	µg/L	93-12391	J
WNNDATR	eth_benz	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	eth_meth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	hexnone2	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	ibut_alc	11/16/93	ND<50.00	50.00	µg/L	93-12390	R
WNNDATR	meacryln	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	mek	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	mene_br	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	mene_cl	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	meth_i	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	methmeac	11/16/93	ND<5.00	5.00	µg/L	93-12390	UJ
WNNDATR	mibk	11/16/93	ND<10.00	10.00	µg/L	93-12390	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	picoline	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pntcleth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	propnitl	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	pyridine	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	styrene	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	t_12_dce	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	t_13_dcp	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	t_14dc2b	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tca_111	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tca_1112	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tca_112	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tca_1122	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tcb_124	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	tcf_meth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tcp_123	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tetcleth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	toluene	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	tricleth	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	vnyl_ace	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNNDATR	vnyl_cl	11/16/93	ND<10.00	10.00	µg/L	93-12390	
WNNDATR	xylene	11/16/93	ND<5.00	5.00	µg/L	93-12390	
WNW0905	acetone	11/30/93	ND<10.00	10.00	µg/L	93-12761	
WNW0905	benzene	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	br_meth	11/30/93	ND<10.00	10.00	µg/L	93-12761	UJ
WNW0905	brdcmeth	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	brform	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	c_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	ccl4	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	cl_benz	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	cl_eth	11/30/93	ND<10.00	10.00	µg/L	93-12761	
WNW0905	cl_form	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	cl_meth	11/30/93	ND<10.00	10.00	µg/L	93-12761	
WNW0905	cs2	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	dbc_meth	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	dca_11	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	dca_12	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	dce_11	11/30/93	ND<5.00	5.00	µg/L	93-12761	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	dce_12_t	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	dcp_12	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	eth_benz	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	hexnone2	11/30/93	ND<10.00	10.00	µg/L	93-12761	
WNW0905	mek	11/30/93	ND<10.00	10.00	µg/L	93-12761	UJ
WNW0905	mene_cl	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	mibk	11/30/93	ND<10.00	10.00	µg/L	93-12761	
WNW0905	styrene	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	t_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	tca_111	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	tca_112	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	tca_1122	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	tcb_124	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	tetcleth	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	toluene	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	tricleth	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0905	vnyl_cl	11/30/93	ND<10.00	10.00	µg/L	93-12761	
WNW0905	xylene	11/30/93	ND<5.00	5.00	µg/L	93-12761	
WNW0907	acetone	11/30/93	ND<10.00	10.00	µg/L	93-12637	
WNW0907	benzene	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	br_meth	11/30/93	ND<10.00	10.00	µg/L	93-12637	UJ
WNW0907	brdcmeth	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	brform	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	c_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	ccl4	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	cl_benz	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	cl_eth	11/30/93	ND<10.00	10.00	µg/L	93-12637	
WNW0907	cl_form	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	cl_meth	11/30/93	ND<10.00	10.00	µg/L	93-12637	
WNW0907	cs2	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	dbc_meth	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	dca_11	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	dca_12	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	dce_11	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	dce_12_t	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	dcp_12	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	eth_benz	11/30/93	ND<5.00	5.00	µg/L	93-12637	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	hexnone2	11/30/93	ND<10.00	10.00	µg/L	93-12637	
WNW0907	mek	11/30/93	ND<10.00	10.00	µg/L	93-12637	UJ
WNW0907	mene_cl	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	mibk	11/30/93	ND<10.00	10.00	µg/L	93-12637	
WNW0907	styrene	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	t_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	tca_111	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	tca_112	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	tca_1122	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	tcb_124	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	tetcleth	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	toluene	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	tricleth	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0907	vnyl_cl	11/30/93	ND<10.00	10.00	µg/L	93-12637	
WNW0907	xylene	11/30/93	ND<5.00	5.00	µg/L	93-12637	
WNW0909	acetone	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	acnitril	11/16/93	ND<100.00	100.00	µg/L	93-12373	
WNW0909	acrolein	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	acrynitr	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	allylcl	11/16/93	ND<100.00	100.00	µg/L	93-12373	UJ
WNW0909	benzene	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	br_meth	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	brdcmeth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	brform	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	c_13_dcp	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	ccl4	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	cl_benz	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	cl_eth	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	cl_form	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	cl_meth	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	cl_prene	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	clevethr	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	cs2	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dbc_meth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dbc_prop	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dbeth_12	11/16/93	ND<5.00	5.00	µg/L	93-12373	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	dca_11	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dca_12	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dcdfmeth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dce_11	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	dcp_12	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	diox_14	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	diox_14	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	eth_benz	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	eth_meth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	hexnone2	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	ibut_alc	11/16/93	ND<50.00	50.00	µg/L	93-12373	R
WNW0909	meacryln	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	mek	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	mene_br	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	mene_cl	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	meth_i	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	methmeac	11/16/93	ND<5.00	5.00	µg/L	93-12373	UJ
WNW0909	mibk	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	picoline	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	picoline	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pntcleth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	propnitl	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	pyridine	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pyridine	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	styrene	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	t_12_dce	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	t_13_dcp	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	t_14dc2b	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tca_111	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tca_1112	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tca_112	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tca_1122	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tcb_124	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	tcb_124	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	tcf_meth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tcp_123	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	tetcleth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	toluene	11/16/93	ND<5.00	5.00	µg/L	93-12373	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	tricleth	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	vnyl_ace	11/16/93	ND<5.00	5.00	µg/L	93-12373	
WNW0909	vnyl_cl	11/16/93	ND<10.00	10.00	µg/L	93-12373	
WNW0909	xylene	11/16/93	ND<5.00	5.00	µg/L	93-12373	

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	acetone	11/30/93	ND<10.00	10.00	µg/L	93-12777	
WNW0908	benzene	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	br_meth	11/30/93	ND<10.00	10.00	µg/L	93-12777	UJ
WNW0908	brdcmeth	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	brform	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	c_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	ccl4	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	cl_benz	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	cl_eth	11/30/93	ND<10.00	10.00	µg/L	93-12777	
WNW0908	cl_form	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	cl_meth	11/30/93	ND<10.00	10.00	µg/L	93-12777	
WNW0908	cs2	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	dbc_meth	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	dca_11	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	dca_12	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	dce_11	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	dce_12_t	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	dcp_12	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	eth_benz	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	hexnone2	11/30/93	ND<10.00	10.00	µg/L	93-12777	
WNW0908	mek	11/30/93	ND<10.00	10.00	µg/L	93-12777	UJ
WNW0908	mene_cl	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	mibk	11/30/93	ND<10.00	10.00	µg/L	93-12777	
WNW0908	styrene	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	t_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	tca_111	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	tca_112	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	tca_1122	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	tcb_124	12/09/93	ND<10.00	10.00	µg/L	93-12778	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	tetcleth	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	toluene	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	tricleth	11/30/93	ND<5.00	5.00	µg/L	93-12777	
WNW0908	vnyl_cl	11/30/93	ND<10.00	10.00	µg/L	93-12777	
WNW0908	xylene	11/30/93	ND<5.00	5.00	µg/L	93-12777	

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WNW0904	acetone	11/30/93	ND<10.00	10.00	µg/L	93-12621	
WNW0904	benzene	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	br_meth	11/30/93	ND<10.00	10.00	µg/L	93-12621	UJ
WNW0904	brdcmeth	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	brform	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	c_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	ccl4	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	cl_benz	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	cl_eth	11/30/93	ND<10.00	10.00	µg/L	93-12621	
WNW0904	cl_form	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	cl_meth	11/30/93	ND<10.00	10.00	µg/L	93-12621	
WNW0904	cs2	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	dbc_meth	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	dca_11	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	dca_12	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	dce_11	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	dce_12_t	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	dcp_12	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	eth_benz	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	hexnone2	11/30/93	ND<10.00	10.00	µg/L	93-12621	
WNW0904	mek	11/30/93	ND<10.00	10.00	µg/L	93-12621	UJ
WNW0904	mene_cl	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	mibk	11/30/93	ND<10.00	10.00	µg/L	93-12621	
WNW0904	styrene	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	t_13_dcp	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	tca_111	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	tca_112	11/30/93	ND<5.00	5.00	µg/L	93-12621	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	tca_1122	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	tcb_124	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	tetcleth	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	toluene	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	tricleth	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0904	vnyl_cl	11/30/93	ND<10.00	10.00	µg/L	93-12621	
WNW0904	xylene	11/30/93	ND<5.00	5.00	µg/L	93-12621	
WNW0910	acetone	12/01/93	ND<10.00	10.00	µg/L	93-12654	
WNW0910	benzene	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	br_meth	12/01/93	ND<10.00	10.00	µg/L	93-12654	UJ
WNW0910	brdcmeth	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	brform	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	c_13_dcp	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	ccl4	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	cl_benz	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	cl_eth	12/01/93	ND<10.00	10.00	µg/L	93-12654	
WNW0910	cl_form	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	cl_meth	12/01/93	ND<10.00	10.00	µg/L	93-12654	
WNW0910	cs2	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	dbc_meth	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	dca_11	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	dca_12	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	dce_11	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	dce_12_t	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	dcp_12	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	eth_benz	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	hexnone2	12/01/93	ND<10.00	10.00	µg/L	93-12654	
WNW0910	mek	12/01/93	ND<10.00	10.00	µg/L	93-12654	UJ
WNW0910	mene_cl	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	mibk	12/01/93	ND<10.00	10.00	µg/L	93-12654	
WNW0910	styrene	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	t_13_dcp	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	tca_111	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	tca_112	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	tca_1122	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	tcb_124	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	tetcleth	12/01/93	ND<5.00	5.00	µg/L	93-12654	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	toluene	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	tricleth	12/01/93	ND<5.00	5.00	µg/L	93-12654	
WNW0910	vnyl_cl	12/01/93	ND<10.00	10.00	µg/L	93-12654	
WNW0910	xylene	12/01/93	ND<5.00	5.00	µg/L	93-12654	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	acnphthy	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	anthracn	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bis2ceth	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bis2cexy	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bis2clis	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bis2ehex	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bnz_a_an	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bnz_a_py	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bnz_b_fl	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bnz_k_fl	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	bnzghipr	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	brppeth4	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	butbnzph	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	carbazol	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	chppeth4	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	chrysene	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	clnapht2	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	clphen_2	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dbahanth	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dcb_33	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dibnzfur	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	diclph24	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	diethyph	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dimthp24	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dimthyph	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dinbutph	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dinoctph	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dintrp24	11/29/93	ND<50.00	50.00	µg/L	93-12835	
WNW1008C	dintrt24	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dintrt26	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	dntrcr46	11/29/93	ND<50.00	50.00	µg/L	93-12835	
WNW1008C	flranthn	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	fluorene	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	hexclbnz	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	hexclbut	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	hexcleth	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	hexclpen	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	indnpyre	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	isophron	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	m_dclbnz	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	m_ntranl	11/29/93	ND<50.00	50.00	µg/L	93-12835	

ND< - Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	Flags
WNW1008C	mthynph2	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	naphthal	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	nntrphny	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	nntrprpy	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	ntrobenz	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	o_cresol	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	o_dclbnz	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	o_ntranl	11/29/93	ND<50.00	50.00	µg/L	93-12835	
WNW1008C	o_ntrphn	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	p_cresol	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	p_dclbnz	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	p_ntranl	11/29/93	ND<50.00	50.00	µg/L	93-12835	
WNW1008C	p_ntrphn	11/29/93	ND<50.00	50.00	µg/L	93-12835	
WNW1008C	pclranil	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	pclrmcrs	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	phenol	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	phnanthr	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	pntclphn	11/29/93	ND<50.00	50.00	µg/L	93-12835	
WNW1008C	pyrene	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	tclph245	11/29/93	ND<10.00	10.00	µg/L	93-12835	
WNW1008C	tclph246	11/29/93	ND<10.00	10.00	µg/L	93-12835	

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	aadimthp	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	aceanfl2	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	acetophn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	acnphthe	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	acnphthy	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	amnobph4	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	aniline	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	anthracn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	aramite	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	benz_alc	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bis2ceth	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bis2cexy	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bis2clis	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bis2ehex	11/16/93	ND<10.00	10.00	µg/L	93-12391	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	bnz_a_an	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bnz_a_py	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bnz_b_fl	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bnz_k_fl	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	bnzghipr	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	brppeth4	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	butbnzph	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	chppeth4	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	chrysene	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	clbnzilt	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	clnapht2	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	clphen_2	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dbahanth	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dcb_33	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dethylpy	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	diallate	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dibnzfur	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	diclph24	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	diclph26	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	diethyph	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dimthoat	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dimthp24	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dimthyph	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dinbutph	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dinoctph	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dintrp24	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	dintrt24	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dintrt26	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	diphnyam	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dmb_33	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ
WNNDATR	dmb_7_12	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	dntrcr46	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	ethmthsl	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	famphur	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	flranthn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	fluorene	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	hexclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	hexclbut	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	hexcleth	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	hexclpen	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	hexclphn	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	hexclpro	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	indnpyre	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	isodrin	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	isophron	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	isosfrol	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	kepone	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	m_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ
WNNDATR	m_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	m_dntbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	m_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	me_mnso4	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	mthchla3	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	mthpriln	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	mthynph2	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	n_dodcan	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	naphthal	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	naphthy2	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrethy	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrmeet	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrmorp	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrmthy	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrnbut	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrphny	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrpipr	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ
WNNDATR	nntrprpy	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nntrpyrr	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	nphthyl1	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	npthqnl4	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	ntr5_otl	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	ntrobenz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	ntrq4_lo	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	o_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	o_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	o_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	o_ntrphn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	o_toludn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	p_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	p_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	p_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	p_ntrphn	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	p_phndam	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	parthion	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pclranil	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pclrmcrs	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pdimthaz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	phenol	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	phnacetn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	phnanthr	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pntclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pntclnbn	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pntclphn	11/16/93	ND<50.00	50.00	µg/L	93-12391	
WNNDATR	prnamide	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	pyrene	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	safrole	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	symtrbnz	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ
WNNDATR	tcb_1245	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	tclph245	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	tclph246	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	tcph2346	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ
WNNDATR	trbutphs	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	triethph	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	ttraethd	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNW0905	acnphthe	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	acnphthy	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	anthracn	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bis2ceth	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bis2cexy	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bis2clis	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bis2ehex	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bnz_a_an	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bnz_a_py	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bnz_b_fl	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bnz_k_fl	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	bnzghipr	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	brppeth4	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	butbnzph	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	carbazol	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	chppeth4	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	chrysene	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	clnapht2	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	clphen_2	11/30/93	ND<10.00	10.00	µg/L	93-12762	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	dbahanth	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dcb_33	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dibnzfur	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	diclph24	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	diethyph	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dimthp24	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dimthyph	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dinbutph	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dinoctph	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dintrp24	11/30/93	ND<52.00	52.00	µg/L	93-12762	
WNW0905	dintrt24	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dintrt26	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	dntrcr46	11/30/93	ND<52.00	52.00	µg/L	93-12762	
WNW0905	flranthn	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	fluorene	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	hexclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	hexclbut	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	hexcleth	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	hexclpen	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	indnpyre	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	isophron	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	m_dclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	m_ntranl	11/30/93	ND<52.00	52.00	µg/L	93-12762	
WNW0905	mthynph2	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	naphthal	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	nntrphny	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	nntrprpy	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	ntrobenz	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	o_cresol	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	o_dclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	o_ntranl	11/30/93	ND<52.00	52.00	µg/L	93-12762	
WNW0905	o_ntrphn	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	p_cresol	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	p_dclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	p_ntranl	11/30/93	ND<52.00	52.00	µg/L	93-12762	
WNW0905	p_ntrphn	11/30/93	ND<52.00	52.00	µg/L	93-12762	
WNW0905	pclranil	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	pclrmcrs	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	phenol	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	phnanthr	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	pntclphn	11/30/93	ND<52.00	52.00	µg/L	93-12762	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	pyrene	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	tclph245	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0905	tclph246	11/30/93	ND<10.00	10.00	µg/L	93-12762	
WNW0907	acnphthe	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	acnphthy	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	anthracn	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bis2ceth	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bis2cexy	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bis2clis	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bis2ehex	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bnz_a_an	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bnz_a_py	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bnz_b_fl	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bnz_k_fl	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	bnzghipr	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	brppeth4	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	butbnzph	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	carbazol	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	chppeth4	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	chrysene	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	clnapht2	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	clphen_2	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dbahanth	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dcb_33	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dibnzfur	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	diclph24	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	diethyph	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dimthp24	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dimthyph	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dinbutph	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dinoctph	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dintrp24	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	dintrt24	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dintrt26	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	dntrcr46	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	flranthn	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	fluorene	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	hexclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	hexclbut	11/30/93	ND<10.00	10.00	µg/L	93-12638	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	hexcleth	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	hexclpen	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	indnpyre	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	isophron	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	m_dclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	m_ntranl	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	mthynph2	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	naphthal	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	nntrphny	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	nntrprpy	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	ntrobenz	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	o_cresol	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	o_dclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	o_ntranl	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	o_ntrphn	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	p_cresol	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	p_dclbnz	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	p_ntranl	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	p_ntrphn	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	pclranil	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	pclrmcrs	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	phenol	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	phnanthr	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	pntclphn	11/30/93	ND<50.00	50.00	µg/L	93-12638	
WNW0907	pyrene	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	tclph245	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0907	tclph246	11/30/93	ND<10.00	10.00	µg/L	93-12638	
WNW0909	aadimthp	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	aadimthp	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	aceanfl2	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	aceanfl2	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	acetophn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	acetophn	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	acnphthe	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	acnphthe	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	acnphthy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	acnphthy	11/16/93	ND<10.00	10.00	µg/L	93-12374	

ND< = Compound Not Detected

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	amnobph4	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	amnobph4	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	aniline	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	aniline	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	anthracn	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	anthracn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	aramite	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	aramite	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	benz_alc	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	benz_alc	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bis2ceth	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bis2ceth	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bis2cexy	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bis2cexy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bis2clis	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bis2clis	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bis2ehex	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bis2ehex	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bnz_a_an	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bnz_a_an	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bnz_a_py	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bnz_a_py	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bnz_b_fl	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bnz_b_fl	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bnz_k_fl	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	bnz_k_fl	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bnzghipr	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	bnzghipr	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	brppeth4	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	brppeth4	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	butbnzph	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	butbnzph	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	chppeth4	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	chppeth4	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	chrysene	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	chrysene	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	clbnzilt	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	clbnzilt	11/16/93	ND<10.00	10.00	µg/L	93-12374	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	clnapht2	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	clnapht2	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	clphen_2	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	clphen_2	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	dbahanth	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dbahanth	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dcb_33	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dcb_33	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dethylpy	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dethylpy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	diallate	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	diallate	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dibnzfur	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dibnzfur	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	diclph24	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	diclph24	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	diclph26	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	diclph26	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	diethyph	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	diethyph	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dimthoat	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dimthoat	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dimthp24	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	dimthp24	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	dimthyph	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dimthyph	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dinbutph	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dinbutph	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dinoctph	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dinoctph	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dintrp24	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	dintrp24	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	dintrt24	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	dintrt24	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dintrt26	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dintrt26	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	diphnyam	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	diphnyam	11/16/93	ND<10.00	10.00	µg/L	93-12374	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	dmb_33	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dmb_33	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dmb_7_12	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dmb_7_12	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	dntrcr46	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	dntrcr46	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	ethmthsl	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	ethmthsl	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	famphur	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	famphur	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	flranthn	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	flranthn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	fluorene	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	fluorene	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	hexclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	hexclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexclbut	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexclbut	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	hexcleth	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexcleth	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	hexclpen	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	hexclpen	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexclphn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexclphn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexclpro	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	hexclpro	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	indnpyre	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	indnpyre	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	isodrin	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	isodrin	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	isophron	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	isophron	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	isosfrol	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	isosfrol	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	kepone	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	kepone	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	m_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	m_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	m_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	m_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	m_dntbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	m_dntbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	m_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12374	
WNW0909	m_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12374	UJ
WNW0909	me_mnso4	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	me_mnso4	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	mthchla3	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	mthchla3	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	mthpriln	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	mthpriln	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	mthynph2	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	mthynph2	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	n_dodcan	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	n_dodcan	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	naphthal	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	naphthal	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	naphthy2	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	naphthy2	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrethy	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrethy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrmeet	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrmeet	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrmorp	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrmorp	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrmthy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrmthy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrnbut	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrnbut	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrphny	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrphny	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrpipr	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrpipr	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrprpy	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nntrprpy	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrpyrr	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	nntrpyrr	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	nphthyll	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	nphthyll	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	npthqnl4	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	npthqnl4	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	ntr5_otl	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	ntr5_otl	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	ntrobenz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	ntrobenz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	ntrq4_lo	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	ntrq4_lo	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	o_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	o_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	o_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	o_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	o_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12374	UJ
WNW0909	o_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12374	
WNW0909	o_ntrphn	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	o_ntrphn	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	o_toludn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	o_toludn	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	p_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	p_cresol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	p_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	p_dclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	p_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12374	UJ
WNW0909	p_ntranl	11/16/93	ND<50.00	50.00	µg/L	93-12374	UJ
WNW0909	p_ntrphn	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	p_ntrphn	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	p_phndam	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	p_phndam	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	parthion	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	parthion	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pclranil	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pclranil	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	pclrmcrs	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	pclrmcrs	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	pdimthaz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pdimthaz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	phenol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	phenol	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	phnacetn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	phnacetn	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	phnanthr	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	phnanthr	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	pntclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pntclbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	pntclnbn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	pntclnbn	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pntclphn	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	pntclphn	11/16/93	ND<50.00	50.00	µg/L	93-12374	R
WNW0909	prnamide	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	prnamide	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	pyrene	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	pyrene	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	safrole	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	safrole	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	symtrbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	symtrbnz	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	tcb_1245	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	tcb_1245	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	tclph245	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	tclph245	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	tclph246	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	tclph246	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	tcph2346	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	tcph2346	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	trbutphs	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	trbutphs	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	triethph	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	triethph	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	ttraethd	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	ttraethd	11/16/93	ND<10.00	10.00	µg/L	93-12374	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	acnphthe	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	acnphthy	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	anthracn	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bis2ceth	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bis2cexy	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bis2clis	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bis2ehex	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bnz_a_an	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bnz_a_py	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bnz_b_fl	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bnz_k_fl	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	bnzghipr	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	brppeth4	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	butbnzph	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	carbazol	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	chppeth4	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	chrysene	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	clnapht2	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	clphen_2	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dbahanth	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dcb_33	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dibnzfur	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	diclph24	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	diethyph	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dimthp24	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dimthyph	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dinbutph	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dinoctph	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dintrp24	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	dintrt24	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dintrt26	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	dntrcr46	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	flranthn	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	fluorene	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	hexclbnz	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	hexclbut	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	hexcleth	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	hexclpen	12/09/93	ND<10.00	10.00	µg/L	93-12778	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	indnpyre	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	isophron	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	m_dclbnz	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	m_ntranl	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	mthynph2	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	naphthal	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	nntrphny	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	nntrprpy	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	ntrobenz	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	o_cresol	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	o_dclbnz	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	o_ntranl	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	o_ntrphn	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	p_cresol	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	p_dclbnz	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	p_ntranl	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	p_ntrphn	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	pclranil	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	pclrmcrs	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	phenol	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	phnanthr	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	pntclphn	12/09/93	ND<50.00	50.00	µg/L	93-12778	
WNW0908	pyrene	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	tclph245	12/09/93	ND<10.00	10.00	µg/L	93-12778	
WNW0908	tclph246	12/09/93	ND<10.00	10.00	µg/L	93-12778	

UWEATHERED LAVERY TILL

DOWNGRADIENT

WNW0904	acnphthe	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	acnphthy	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	anthracn	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bis2ceth	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bis2cexy	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bis2clis	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bis2ehex	11/30/93	ND<11.00	11.00	µg/L	93-12622	

ND< = Compound Not Detected

RFI: 0003008.RM

UWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	bnz_a_an	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bnz_a_py	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bnz_b_fl	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bnz_k_fl	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	bnzghipr	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	brppeth4	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	butbnzph	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	carbazol	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	chppeth4	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	chrysene	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	clnapht2	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	clphen_2	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dbahanth	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dcb_33	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dibnzfur	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	diclph24	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	diethyph	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dimthp24	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dimthyph	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dinbutph	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dinoctph	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dintrp24	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	dintrt24	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dintrt26	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	dntrcr46	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	flranthn	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	fluorene	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	hexclbnz	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	hexclbut	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	hexcleth	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	hexclpen	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	indnpyre	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	isophron	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	m_dclbnz	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	m_ntranl	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	mthynph2	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	naphthal	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	nntrphny	11/30/93	ND<11.00	11.00	µg/L	93-12622	

ND< = Compound Not Detected

RFI: 0003008.RM

UWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	nntrprpy	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	ntrobenz	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	o_cresol	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	o_dclbnz	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	o_ntranl	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	o_ntrphn	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	p_cresol	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	p_dclbnz	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	p_ntranl	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	p_ntrphn	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	pclranil	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	pclrmcrs	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	phenol	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	phnanthr	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	pntclphn	11/30/93	ND<53.00	53.00	µg/L	93-12622	
WNW0904	pyrene	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	tclph245	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0904	tclph246	11/30/93	ND<11.00	11.00	µg/L	93-12622	
WNW0910	acnphthe	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	acnphthy	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	anthracn	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bis2ceth	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bis2cexy	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bis2clis	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bis2ehex	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bnz_a_an	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bnz_a_py	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bnz_b_fl	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bnz_k_fl	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	bnzghipr	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	brppeth4	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	butbnzph	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	carbazol	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	chppeth4	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	chrysene	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	clnapht2	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	clphen_2	12/01/93	ND<10.00	10.00	µg/L	93-12655	

ND< = Compound Not Detected

RFI: 0003008.RM

UWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	dbahanth	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dcb_33	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dibnzfur	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	diclph24	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	diethyph	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dimthp24	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dimthyph	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dinbutph	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dinoctph	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dintrp24	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	dintrt24	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dintrt26	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	dntrcr46	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	flranthn	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	fluorene	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	hexclbnz	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	hexclbut	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	hexcleth	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	hexclpen	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	indnpyre	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	isophron	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	m_dclbnz	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	m_ntranl	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	mthynph2	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	naphthal	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	nntrphny	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	nntrprpy	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	ntrobenz	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	o_cresol	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	o_dclbnz	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	o_ntranl	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	o_ntrphn	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	p_cresol	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	p_dclbnz	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	p_ntranl	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	p_ntrphn	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	pclranil	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	pclrmcrs	12/01/93	ND<10.00	10.00	µg/L	93-12655	

ND< = Compound Not Detected

RFI: 0003008.RM

UWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	phenol	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	phnanthr	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	pntclphn	12/01/93	ND<50.00	50.00	µg/L	93-12655	
WNW0910	pyrene	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	tclph245	12/01/93	ND<10.00	10.00	µg/L	93-12655	
WNW0910	tclph246	12/01/93	ND<10.00	10.00	µg/L	93-12655	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	ag_t	11/29/93	ND<10.00	10.00	µg/L	93-12828	
WNW1008C	al_s	11/29/93	ND<200.00	200.00	µg/L	93-12830	
WNW1008C	al_t	11/29/93		310.00	µg/L	93-12828	
WNW1008C	as_t	11/29/93		7.00	µg/L	93-12828	
WNW1008C	b_s	11/29/93	ND<100.00	100.00	µg/L	93-12830	
WNW1008C	b_t	11/29/93	ND<100.00	100.00	µg/L	93-12828	
WNW1008C	ba_t	11/29/93		216.00	µg/L	93-12828	
WNW1008C	be_t	11/29/93	ND<3.00	3.00	µg/L	93-12828	
WNW1008C	ca_s	11/29/93		80800.00	µg/L	93-12830	
WNW1008C	ca_t	11/29/93		73400.00	µg/L	93-12828	
WNW1008C	cd_t	11/29/93	ND<0.20	0.20	µg/L	93-12828	
WNW1008C	cl	11/29/93		31.80	mg/L	93-12826	
WNW1008C	co3	11/29/93	ND<1.00	1.00	mg/L	93-12826	UJ
WNW1008C	co_t	11/29/93	ND<20.00	20.00	µg/L	93-12828	
WNW1008C	cr_t	11/29/93	ND<10.00	10.00	µg/L	93-12828	
WNW1008C	cu_t	11/29/93	ND<10.00	10.00	µg/L	93-12828	
WNW1008C	cyan_tot	11/29/93	ND<0.01	0.00	mg/L	93-12837	
WNW1008C	fe_s	11/29/93		65.00	µg/L	93-12830	
WNW1008C	fe_t	11/29/93		263.00	µg/L	93-12828	
WNW1008C	hco3	11/29/93		225.00	mg/L	93-12826	J
WNW1008C	hg_t	11/29/93	ND<0.20	0.20	µg/L	93-12828	
WNW1008C	hydroxyl	11/29/93	ND<1.00	1.00	mg/L	93-12826	UJ
WNW1008C	k_s	11/29/93	ND<1000.00	1000.00	µg/L	93-12830	
WNW1008C	k_t	11/29/93	ND<1000.00	1000.00	µg/L	93-12828	
WNW1008C	mg_s	11/29/93		18700.00	µg/L	93-12830	
WNW1008C	mg_t	11/29/93		17300.00	µg/L	93-12828	
WNW1008C	mn_s	11/29/93		190.00	µg/L	93-12830	
WNW1008C	mn_t	11/29/93		159.00	µg/L	93-12828	
WNW1008C	na_s	11/29/93		13700.00	µg/L	93-12830	
WNW1008C	na_t	11/29/93		13600.00	µg/L	93-12828	J
WNW1008C	nh3	11/29/93		0.10	mg/L	93-12822	
WNW1008C	nh3	11/29/93		0.10	mg/L	93-12822	
WNW1008C	ni_t	11/29/93	ND<30.00	30.00	µg/L	93-12828	
WNW1008C	no3no2	11/29/93	ND<0.05	0.10	mg/L	93-12825	
WNW1008C	pb_t	11/29/93		5.00	µg/L	93-12828	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	po4_totl	11/29/93		0.10	mg/L	93-12825	
WNW1008C	sb_t	11/29/93	ND<3.00	3.00	µg/L	93-12828	
WNW1008C	se_t	11/29/93	ND<3.00	3.00	µg/L	93-12828	
WNW1008C	silica	11/29/93		12.90	mg/L	93-12826	
WNW1008C	so4	11/29/93		20.90	mg/L	93-12826	
WNW1008C	sulfide	11/29/93	ND<1.00	1.00	mg/L	93-12832	
WNW1008C	tl_t	11/29/93	ND<3.00	3.00	µg/L	93-12828	
WNW1008C	v_t	11/29/93	ND<20.00	20.00	µg/L	93-12828	
WNW1008C	zn_t	11/29/93	ND<10.00	10.00	µg/L	93-12828	

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	ag_t	11/16/93	ND<0.50	0.50	µg/L	93-12387	UJ
WNNDATR	al_s	11/16/93	ND<90.00	90.00	µg/L	93-12388	
WNNDATR	as_t	11/16/93	ND<3.00	3.00	µg/L	93-12387	
WNNDATR	ba_t	11/16/93		90.70	µg/L	93-12387	
WNNDATR	be_t	11/16/93	ND<3.00	3.00	µg/L	93-12387	
WNNDATR	ca_s	11/16/93		129000.00	µg/L	93-12388	
WNNDATR	cd_t	11/16/93	ND<0.20	0.20	µg/L	93-12387	
WNNDATR	cl	11/16/93		14.80	mg/L	93-12386	
WNNDATR	co3	11/16/93	ND<1.00	1.00	mg/L	93-12386	
WNNDATR	co_t	11/16/93	ND<20.00	20.00	µg/L	93-12387	
WNNDATR	cr_t	11/16/93	ND<10.00	10.00	µg/L	93-12387	
WNNDATR	cu_t	11/16/93	ND<10.00	10.00	µg/L	93-12387	
WNNDATR	cyan_tot	11/16/93	ND<0.01	0.00	mg/L	93-12393	
WNNDATR	fe_s	11/16/93	ND<40.00	40.00	µg/L	93-12388	
WNNDATR	hco3	11/16/93		235.00	mg/L	93-12386	
WNNDATR	hg_t	11/16/93	ND<0.20	0.20	µg/L	93-12387	
WNNDATR	hydroxyl	11/16/93	ND<1.00	1.00	mg/L	93-12386	
WNNDATR	k_s	11/16/93		4890.00	µg/L	93-12388	
WNNDATR	mg_s	11/16/93		22500.00	µg/L	93-12388	
WNNDATR	mn_s	11/16/93	ND<5.00	5.00	µg/L	93-12388	
WNNDATR	na_s	11/16/93		12700.00	µg/L	93-12388	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	nh3	11/16/93	ND<0.05	0.10	mg/L	93-12383	
WNNDATR	ni_t	11/16/93	ND<30.00	30.00	µg/L	93-12387	
WNNDATR	no3no2	11/16/93		0.80	mg/L	93-12385	
WNNDATR	pb_t	11/16/93	ND<2.00	2.00	µg/L	93-12387	
WNNDATR	po4_totl	11/16/93	ND<0.05	0.10	mg/L	93-12385	
WNNDATR	sb_t	11/16/93	ND<3.00	3.00	µg/L	93-12387	UJ
WNNDATR	se_t	11/16/93	ND<3.00	3.00	µg/L	93-12387	
WNNDATR	silica	11/16/93		6.70	mg/L	93-12386	
WNNDATR	sn_t	11/16/93	ND<2000.00	2000.00	µg/L	93-12387	
WNNDATR	so4	11/16/93		105.00	mg/L	93-12386	
WNNDATR	sulfide	11/16/93		1.70	mg/L	93-12389	
WNNDATR	tl_t	11/16/93	ND<3.00	3.00	µg/L	93-12387	
WNNDATR	v_t	11/16/93	ND<20.00	20.00	µg/L	93-12387	
WNNDATR	zn_t	11/16/93	ND<10.00	10.00	µg/L	93-12387	
WNW0905	ag_t	11/30/93	ND<10.00	10.00	µg/L	93-12758	
WNW0905	al_s	11/30/93	ND<90.00	90.00	µg/L	93-12759	
WNW0905	al_t	11/30/93		250.00	µg/L	93-12758	
WNW0905	as_t	11/30/93		4.00	µg/L	93-12758	
WNW0905	ba_t	11/30/93	ND<40.00	40.00	µg/L	93-12758	
WNW0905	be_t	11/30/93	ND<3.00	3.00	µg/L	93-12758	
WNW0905	ca_s	11/30/93		262000.00	µg/L	93-12759	
WNW0905	ca_t	11/30/93		221000.00	µg/L	93-12758	
WNW0905	cd_t	11/30/93	ND<0.20	0.20	µg/L	93-12758	
WNW0905	cl	11/30/93		9.10	mg/L	93-12757	
WNW0905	co3	11/30/93	ND<1.00	1.00	mg/L	93-12757	
WNW0905	co_t	11/30/93	ND<20.00	20.00	µg/L	93-12758	
WNW0905	cr_t	11/30/93	ND<10.00	10.00	µg/L	93-12758	
WNW0905	cu_t	11/30/93	ND<10.00	10.00	µg/L	93-12758	
WNW0905	cyan_tot	11/30/93	ND<0.01	0.00	mg/L	93-12764	
WNW0905	fe_s	11/30/93		2440.00	µg/L	93-12759	
WNW0905	fe_t	11/30/93		2210.00	µg/L	93-12758	
WNW0905	hco3	11/30/93		432.00	mg/L	93-12757	
WNW0905	hg_t	11/30/93	ND<0.20	0.20	µg/L	93-12758	
WNW0905	hydroxyl	11/30/93	ND<1.00	1.00	mg/L	93-12757	

ND< - Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	k_s	11/30/93		4250.00	µg/L	93-12759	
WNW0905	k_t	11/30/93		3790.00	µg/L	93-12758	
WNW0905	mg_s	11/30/93		86900.00	µg/L	93-12759	
WNW0905	mg_t	11/30/93		78700.00	µg/L	93-12758	
WNW0905	mn_s	11/30/93		671.00	µg/L	93-12759	
WNW0905	mn_t	11/30/93		569.00	µg/L	93-12758	
WNW0905	na_s	11/30/93		13000.00	µg/L	93-12759	
WNW0905	na_t	11/30/93		12600.00	µg/L	93-12758	
WNW0905	nh3	11/30/93		0.10	mg/L	93-12754	
WNW0905	ni_t	11/30/93	ND<30.00	30.00	µg/L	93-12758	
WNW0905	no3no2	11/30/93	ND<0.05	0.10	mg/L	93-12756	
WNW0905	pb_t	11/30/93	ND<2.00	2.00	µg/L	93-12758	
WNW0905	po4_totl	11/30/93	ND<0.05	0.10	mg/L	93-12756	
WNW0905	sb_t	11/30/93	ND<4.00	4.00	µg/L	93-12758	
WNW0905	se_t	11/30/93	ND<3.00	3.00	µg/L	93-12758	
WNW0905	silica	11/30/93		14.80	mg/L	93-12757	
WNW0905	so4	11/30/93		519.00		mg/L	93-12757
WNW0905	sulfide	11/30/93	ND<1.00	1.00	mg/L	93-12760	
WNW0905	tl_t	11/30/93	ND<3.00	3.00	µg/L	93-12758	
WNW0905	v_t	11/30/93	ND<20.00	20.00	µg/L	93-12758	
WNW0905	zn_t	11/30/93	ND<10.00	10.00	µg/L	93-12758	
WNW0906	al_s	12/09/93		218.00	µg/L	93-12677	
WNW0906	al_t	12/09/93		322.00	µg/L	93-12676	
WNW0906	ca_s	12/09/93		58500.00	µg/L	93-12677	
WNW0906	ca_t	12/09/93		61400.00	µg/L	93-12676	
WNW0906	cl	12/09/93		5.60	mg/L	93-12675	
WNW0906	co3	12/09/93	ND<1.00	1.00	mg/L	93-12675	
WNW0906	fe_s	12/09/93		121.00	µg/L	93-12677	
WNW0906	fe_t	12/09/93		400.00	µg/L	93-12676	
WNW0906	hco3	12/09/93		192.00	mg/L	93-12675	
WNW0906	hydroxyl	12/09/93	ND<1.00	1.00	mg/L	93-12675	
WNW0906	k_s	12/09/93		2700.00	µg/L	93-12677	
WNW0906	k_t	12/09/93		2660.00	µg/L	93-12676	
WNW0906	mg_s	12/09/93		18900.00	µg/L	93-12677	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0906	mg_t	12/09/93		20200.00	µg/L	93-12676	
WNW0906	mn_s	12/09/93	ND<5.00	5.00	µg/L	93-12677	
WNW0906	mn_t	12/09/93		22.00	µg/L	93-12676	
WNW0906	na_s	12/09/93		26600.00	µg/L	93-12677	
WNW0906	na_t	12/09/93		23700.00	µg/L	93-12676	
WNW0906	nh3	12/09/93	ND<0.05	0.10	mg/L	93-12671	
WNW0906	no3no2	12/09/93	ND<0.05	0.10	mg/L	93-12674	
WNW0906	po4_totl	12/09/93		0.10	mg/L	93-12674	
WNW0906	silica	12/09/93		9.20	mg/L	93-12675	
WNW0906	so4	12/09/93		61.10	mg/L	93-12675	
WNW0906	sulfide	12/09/93	ND<1.00	1.00	mg/L	93-12678	
WNW0907	ag_t	11/30/93	ND<10.00	10.00	µg/L	93-12634	
WNW0907	al_s	12/01/93	ND<200.00	200.00	µg/L	93-12635	
WNW0907	al_t	11/30/93	ND<200.00	200.00	µg/L	93-12634	
WNW0907	as_t	11/30/93		50.00	µg/L	93-12634	
WNW0907	ba_t	11/30/93		48.00	µg/L	93-12634	
WNW0907	be_t	11/30/93	ND<3.00	3.00	µg/L	93-12634	
WNW0907	ca_s	12/01/93		106000.00	µg/L	93-12635	
WNW0907	ca_t	11/30/93		100000.00	µg/L	93-12634	
WNW0907	cd_t	11/30/93	ND<0.20	0.20	µg/L	93-12634	
WNW0907	cl	12/01/93		1.40	mg/L	93-12633	
WNW0907	co3	12/01/93	ND<1.00	1.00	mg/L	93-12633	
WNW0907	co_t	11/30/93	ND<20.00	20.00	µg/L	93-12634	
WNW0907	cr_t	11/30/93	ND<10.00	10.00	µg/L	93-12634	
WNW0907	cu_t	11/30/93	ND<10.00	10.00	µg/L	93-12634	
WNW0907	cyan_tot	11/30/93	ND<0.01	0.00	mg/L	93-12640	
WNW0907	fe_s	12/01/93	ND<40.00	40.00	µg/L	93-12635	
WNW0907	fe_t	11/30/93		49.00	µg/L	93-12634	
WNW0907	hco3	12/01/93		298.00	mg/L	93-12633	
WNW0907	hg_t	11/30/93	ND<0.20	0.20	µg/L	93-12634	
WNW0907	hydroxyl	12/01/93	ND<1.00	1.00	mg/L	93-12633	
WNW0907	k_s	12/01/93		2250.00	µg/L	93-12635	
WNW0907	k_t	11/30/93		2020.00	µg/L	93-12634	
WNW0907	mg_s	12/01/93		40100.00	µg/L	93-12635	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	mg_t	11/30/93		39500.00	µg/L	93-12634	
WNW0907	mn_s	12/01/93		14.30	µg/L	93-12635	
WNW0907	mn_t	11/30/93		34.00	µg/L	93-12634	
WNW0907	na_s	12/01/93		9390.00	µg/L	93-12635	
WNW0907	na_t	11/30/93		10600.00	µg/L	93-12634	
WNW0907	nh3	12/01/93	ND<0.05	0.10	mg/L	93-12630	
WNW0907	ni_t	11/30/93	ND<30.00	30.00	µg/L	93-12634	
WNW0907	no3no2	12/01/93		0.10	mg/L	93-12632	
WNW0907	pb_t	11/30/93	ND<2.00	2.00	µg/L	93-12634	
WNW0907	po4_totl	12/01/93	ND<0.05	0.10	mg/L	93-12632	
WNW0907	sb_t	11/30/93	ND<4.00	4.00	µg/L	93-12634	
WNW0907	se_t	11/30/93	ND<3.00	3.00	µg/L	93-12634	
WNW0907	silica	12/01/93		11.40	mg/L	93-12633	
WNW0907	so4	12/01/93		103.00	mg/L	93-12633	
WNW0907	sulfide	12/01/93	ND<1.00	1.00	mg/L	93-12636	
WNW0907	tl_t	11/30/93	ND<3.00	3.00	µg/L	93-12634	
WNW0907	v_t	11/30/93	ND<20.00	20.00	µg/L	93-12634	
WNW0907	zn_t	11/30/93	ND<10.00	10.00	µg/L	93-12634	
WNW0909	ag_t	11/16/93	ND<0.50	0.50	µg/L	93-12370	UJ
WNW0909	al_s	11/16/93	ND<90.00	90.00	µg/L	93-12371	
WNW0909	as_t	11/16/93		9.00	µg/L	93-12370	
WNW0909	ba_t	11/16/93		120.00	µg/L	93-12370	
WNW0909	be_t	11/16/93	ND<3.00	3.00	µg/L	93-12370	
WNW0909	ca_s	11/16/93		262000.00	µg/L	93-12371	
WNW0909	cd_t	11/16/93	ND<0.20	0.20	µg/L	93-12370	
WNW0909	cl	11/16/93		13.10	mg/L	93-12369	
WNW0909	co3	11/16/93	ND<1.00	1.00	mg/L	93-12369	
WNW0909	co_t	11/16/93	ND<20.00	20.00	µg/L	93-12370	
WNW0909	cr_t	11/16/93	ND<10.00	10.00	µg/L	93-12370	
WNW0909	cu_t	11/16/93		13.80	µg/L	93-12370	
WNW0909	cyan_tot	11/16/93	ND<0:01	0.00	mg/L	93-12376	
WNW0909	fe_s	11/16/93		9390.00	µg/L	93-12371	
WNW0909	hco3	11/16/93		610.00	mg/L	93-12369	
WNW0909	hg_t	11/16/93	ND<0.20	0.20	µg/L	93-12370	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	hydroxyl	11/16/93	ND<1.00	1.00	mg/L	93-12369	
WNW0909	k_s	11/16/93		2540.00	µg/L	93-12371	
WNW0909	mg_s	11/16/93		57300.00	µg/L	93-12371	
WNW0909	mn_s	11/16/93		6410.00	µg/L	93-12371	
WNW0909	na_s	11/16/93		8910.00	µg/L	93-12371	
WNW0909	nh3	11/16/93		0.40	mg/L	93-12366	
WNW0909	nh3	11/16/93		0.40	mg/L	93-12366	
WNW0909	ni_t	11/16/93		52.20	µg/L	93-12370	
WNW0909	no3no2	11/16/93	ND<0.05	0.10	mg/L	93-12368	
WNW0909	pb_t	11/16/93		4.00	µg/L	93-12370	
WNW0909	po4_totl	11/16/93		0.10	mg/L	93-12368	
WNW0909	sb_t	11/16/93	ND<3.00	3.00	µg/L	93-12370	UJ
WNW0909	se_t	11/16/93	ND<3.00	3.00	µg/L	93-12370	
WNW0909	silica	11/16/93		16.40	mg/L	93-12369	
WNW0909	sn_t	11/16/93	ND<2000.00	2000.00	µg/L	93-12370	
WNW0909	so4	11/16/93		166.00	mg/L	93-12369	
WNW0909	sulfide	11/16/93	ND<1.00	1.00	mg/L	93-12372	
WNW0909	tl_t	11/16/93	ND<3.00	3.00	µg/L	93-12370	
WNW0909	v_t	11/16/93	ND<20.00	20.00	µg/L	93-12370	
WNW0909	zn_t	11/16/93		16.90	µg/L	93-12370	

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	ag_t	12/16/93	ND<10.00	10.00	µg/L	93-12774	UJ
WNW0908	al_s	12/29/93	ND<90.00	90.00	µg/L	93-12775	
WNW0908	al_t	12/16/93	ND<90.00	90.00	µg/L	93-12774	
WNW0908	as_t	12/16/93	ND<3.00	3.00	µg/L	93-12774	
WNW0908	ba_t	12/16/93	ND<30.00	30.00	µg/L	93-12774	
WNW0908	be_t	12/16/93	ND<3.00	3.00	µg/L	93-12774	
WNW0908	ca_s	12/29/93		484000.00	µg/L	93-12775	
WNW0908	ca_t	12/16/93		447000.00	µg/L	93-12774	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	cd_t	12/16/93	ND<0.20	0.20	µg/L	93-12774	
WNW0908	cl	12/23/93		4.60	mg/L	93-12773	
WNW0908	co3	12/23/93	ND<1.00	1.00	mg/L	93-12773	
WNW0908	co_t	12/16/93	ND<20.00	20.00	µg/L	93-12774	
WNW0908	cr_t	12/16/93	ND<10.00	10.00	µg/L	93-12774	
WNW0908	cu_t	12/16/93		11.00	µg/L	93-12774	
WNW0908	cyan_tot	12/16/93	ND<0.01	0.00	mg/L	93-12780	
WNW0908	fe_s	12/29/93		40.00	µg/L	93-12775	
WNW0908	fe_t	12/16/93		205.00	µg/L	93-12774	
WNW0908	hco3	12/23/93		269.00	mg/L	93-12773	
WNW0908	hg_t	12/16/93	ND<0.20	0.20	µg/L	93-12774	
WNW0908	hydroxyl	12/23/93	ND<1.00	1.00	mg/L	93-12773	
WNW0908	k_s	12/29/93		6330.00	µg/L	93-12775	
WNW0908	k_t	12/16/93		5530.00	µg/L	93-12774	
WNW0908	mg_s	12/29/93		155000.00	µg/L	93-12775	
WNW0908	mg_t	12/16/93		142000.00	µg/L	93-12774	
WNW0908	mn_s	12/29/93		7.40	µg/L	93-12775	
WNW0908	mn_t	12/16/93		176.00	µg/L	93-12774	
WNW0908	na_s	12/29/93		22700.00	µg/L	93-12775	J
WNW0908	na_t	12/16/93		21300.00	µg/L	93-12774	
WNW0908	nh3	12/29/93	ND<0.05	0.10	mg/L	93-12770	
WNW0908	ni_t	12/16/93	ND<30.00	30.00	µg/L	93-12774	
WNW0908	no3no2	12/29/93	ND<0.05	0.10	mg/L	93-12772	
WNW0908	pb_t	12/16/93	ND<2.00	2.00	µg/L	93-12774	
WNW0908	po4_totl	12/29/93		0.10	mg/L	93-12772	
WNW0908	sb_t	12/16/93	ND<4.00	4.00	µg/L	93-12774	
WNW0908	se_t	12/16/93		3.00	µg/L	93-12774	
WNW0908	silica	12/23/93		10.00	mg/L	93-12773	
WNW0908	so4	12/23/93		1490.00	mg/L	93-12773	
WNW0908	sulfide	12/29/93	ND<1.00	1.00	mg/L	93-12776	
WNW0908	tl_t	12/16/93	ND<4.00	4.00	µg/L	93-12774	
WNW0908	v_t	12/16/93	ND<20.00	20.00	µg/L	93-12774	
WNW0908	zn_t	12/16/93	ND<10.00	10.00	µg/L	93-12774	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	ag_t	11/30/93	ND<10.00	10.00	µg/L	93-12618	
WNW0904	al_s	12/09/93		419.00	µg/L	93-12619	
WNW0904	al_t	11/30/93		4890.00	µg/L	93-12618	
WNW0904	as_t	11/30/93		9.00	µg/L	93-12618	
WNW0904	ba_t	11/30/93		91.10	µg/L	93-12618	
WNW0904	be_t	11/30/93	ND<3.00	3.00	µg/L	93-12618	
WNW0904	ca_s	12/09/93		111000.00	µg/L	93-12619	
WNW0904	ca_t	11/30/93		102000.00	µg/L	93-12618	J
WNW0904	cd_t	11/30/93	ND<0.20	0.20	µg/L	93-12618	
WNW0904	cl	11/30/93		6.90	mg/L	93-12617	
WNW0904	co3	11/30/93	ND<1.00	1.00	mg/L	93-12617	
WNW0904	co_t	11/30/93	ND<20.00	20.00	µg/L	93-12618	
WNW0904	cr_t	11/30/93	ND<10.00	10.00	µg/L	93-12618	
WNW0904	cu_t	11/30/93		19.30	µg/L	93-12618	
WNW0904	cyan_tot	12/01/93	ND<0.01	0.00	mg/L	93-12624	UJ
WNW0904	fe_s	12/09/93		348.00	µg/L	93-12619	
WNW0904	fe_t	11/30/93		5320.00	µg/L	93-12618	J
WNW0904	hco3	11/30/93		232.00	mg/L	93-12617	
WNW0904	hg_t	11/30/93	ND<0.20	0.20	µg/L	93-12618	
WNW0904	hydroxyl	11/30/93	ND<1.00	1.00	mg/L	93-12617	
WNW0904	k_s	12/09/93		2350.00	µg/L	93-12619	
WNW0904	k_t	11/30/93		1960.00	µg/L	93-12618	
WNW0904	mg_s	12/09/93		32600.00	µg/L	93-12619	
WNW0904	mg_t	11/30/93		30200.00	µg/L	93-12618	
WNW0904	mn_s	12/09/93		7.70	µg/L	93-12619	
WNW0904	mn_t	11/30/93		278.00	µg/L	93-12618	J
WNW0904	na_s	12/09/93		31000.00	µg/L	93-12619	
WNW0904	na_t	11/30/93		23400.00	µg/L	93-12618	
WNW0904	nh3	12/09/93	ND<0.05	0.10	mg/L	93-12614	
WNW0904	ni_t	11/30/93	ND<30.00	30.00	µg/L	93-12618	
WNW0904	no3no2	12/01/93		0.20	mg/L	93-12616	
WNW0904	pb_t	11/30/93		12.00	µg/L	93-12618	
WNW0904	po4_totl	12/01/93		0.50	mg/L	93-12616	
WNW0904	sb_t	11/30/93	ND<4.00	4.00	µg/L	93-12618	
WNW0904	se_t	11/30/93	ND<3.00	3.00	µg/L	93-12618	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	silica	11/30/93		8.30	mg/L	93-12617	
WNW0904	so4	11/30/93		146.00	mg/L	93-12617	
WNW0904	sulfide	12/01/93	ND<1.00	1.00	mg/L	93-12620	
WNW0904	tl_t	11/30/93	ND<3.00	3.00	µg/L	93-12618	
WNW0904	v_t	11/30/93	ND<20.00	20.00	µg/L	93-12618	
WNW0904	zn_t	11/30/93		19.40	µg/L	93-12618	
WNW0910	ag_t	12/09/93	ND<10.00	10.00	µg/L	93-12651	
WNW0910	al_s	12/29/93	ND<90.00	90.00	µg/L	93-12652	
WNW0910	al_t	12/09/93	ND<200.00	200.00	µg/L	93-12651	
WNW0910	as_t	12/09/93	ND<3.00	3.00	µg/L	93-12651	
WNW0910	ba_t	12/09/93	ND<40.00	40.00	µg/L	93-12651	
WNW0910	be_t	12/09/93	ND<3.00	3.00	µg/L	93-12651	
WNW0910	ca_s	12/29/93		250000.00	µg/L	93-12652	
WNW0910	ca_t	12/09/93		205000.00	µg/L	93-12651	
WNW0910	cd_t	12/09/93		1.90	µg/L	93-12651	
WNW0910	cl	12/29/93		1.60	mg/L	93-12650	
WNW0910	co3	12/29/93	ND<1.00	1.00	mg/L	93-12650	
WNW0910	co_t	12/09/93	ND<20.00	20.00	µg/L	93-12651	
WNW0910	cr_t	12/09/93	ND<10.00	10.00	µg/L	93-12651	
WNW0910	cu_t	12/09/93	ND<10.00	10.00	µg/L	93-12651	
WNW0910	cyan_tot	12/09/93	ND<0.01	0.00	mg/L	93-12657	
WNW0910	fe_s	12/29/93		125.00	µg/L	93-12652	
WNW0910	fe_t	12/09/93		279.00	µg/L	93-12651	
WNW0910	hco3	12/29/93		337.00	mg/L	93-12650	
WNW0910	hg_t	12/09/93	ND<0.20	0.20	µg/L	93-12651	
WNW0910	hydroxyl	12/29/93	ND<1.00	1.00	mg/L	93-12650	
WNW0910	k_s	12/29/93		10500.00	µg/L	93-12652	
WNW0910	k_t	12/09/93		10300.00	µg/L	93-12651	
WNW0910	mg_s	12/29/93		110000.00	µg/L	93-12652	
WNW0910	mg_t	12/09/93		94600.00	µg/L	93-12651	
WNW0910	mn_s	12/29/93		237.00	µg/L	93-12652	
WNW0910	mn_t	12/09/93		340.00	µg/L	93-12651	
WNW0910	na_s	12/29/93		47200.00	µg/L	93-12652	
WNW0910	na_t	12/09/93		43700.00	µg/L	93-12651	J
WNW0910	nh3	12/23/93		0.30	mg/L	93-12646	
WNW0910	nh3	12/23/93		0.30	mg/L	93-12646	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	ni_t	12/09/93	ND<30.00	30.00	µg/L	93-12651	
WNW0910	no3no2	12/23/93	ND<0.05	0.10	mg/L	93-12648	
WNW0910	pb_t	12/09/93	ND<2.00	2.00	µg/L	93-12651	
WNW0910	po4_totl	12/23/93		0.10	mg/L	93-12648	
WNW0910	sb_t	12/09/93	ND<4.00	4.00	µg/L	93-12651	
WNW0910	se_t	12/09/93	ND<3.00	3.00	µg/L	93-12651	
WNW0910	silica	12/29/93		11.20	mg/L	93-12650	
WNW0910	so4	12/29/93		909.00	mg/L	93-12650	
WNW0910	sulfide	12/21/93	ND<1.00	1.00	mg/L	93-12653	
WNW0910	tl_t	12/09/93	ND<4.00	4.00	µg/L	93-12651	
WNW0910	v_t	12/09/93	ND<20.00	20.00	µg/L	93-12651	
WNW0910	zn_t	12/09/93		10.60	µg/L	93-12651	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	acetone	05/26/94	ND<10.00	10.00	µg/L	94-04743	
WNW1008C	benzene	05/26/94	ND<0.70	0.70	µg/L	94-04743	
WNW1008C	br_meth	05/26/94	ND<10.00	10.00	µg/L	94-04743	
WNW1008C	brdcmeth	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	brform	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	c_13_dcp	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	ccl4	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	cl_benz	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	cl_eth	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	cl_form	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	cl_meth	05/26/94	ND<5.00	5.00	µg/L	94-04743	UJ
WNW1008C	cs2	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	dbc_meth	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	dca_11	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	dca_12	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	dce_11	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	dce_12_t	05/26/94	ND<5.00	5.00	µg/L	94-04743	UJ
WNW1008C	dcp_12	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	eth_benz	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	hexnone2	05/26/94	ND<10.00	10.00	µg/L	94-04743	
WNW1008C	mek	05/26/94	ND<10.00	10.00	µg/L	94-04743	
WNW1008C	mene_cl	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	mibk	05/26/94	ND<10.00	10.00	µg/L	94-04743	
WNW1008C	styrene	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	t_13_dcp	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	tca_111	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	tca_112	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	tca_1122	05/26/94	ND<5.00	5.00	µg/L	94-04743	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	tcb_124	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	tetcleth	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	toluene	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	tricleth	05/26/94	ND<5.00	5.00	µg/L	94-04743	
WNW1008C	vnyl_cl	05/26/94	ND<2.00	2.00	µg/L	94-04743	
WNW1008C	xylene	05/26/94	ND<5.00	5.00	µg/L	94-04743	

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	acetone	05/17/94	ND<10.00	10.00	µg/L	94-04588	UJ
WNNDATR	acnitril	05/17/94	ND<100.00	100.00	µg/L	94-04588	UJ
WNNDATR	acrolein	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	acrynitr	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	allylcl	05/17/94	ND<5.00	5.00	µg/L	94-04588	R
WNNDATR	benzene	05/17/94	ND<0.70	0.70	µg/L	94-04588	
WNNDATR	br_meth	05/17/94	ND<10.00	10.00	µg/L	94-04588	
WNNDATR	brdcmeth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	brform	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	c_13_dcp	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	ccl4	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	cl_benz	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	cl_eth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	cl_form	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	cl_meth	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	cl_prene	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	clevethr	05/17/94	ND<10.00	10.00	µg/L	94-04588	
WNNDATR	cs2	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dbc_meth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dbc_prop	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dbeth_12	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dca_11	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dca_12	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dcdfmeth	05/17/94	ND<5.00	5.00	µg/L	94-04588	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	dce_11	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	dcp_12	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	diox_14	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	eth_benz	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	eth_meth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	hexnone2	05/17/94	ND<10.00	10.00	µg/L	94-04588	
WNNDATR	ibut_alc	05/17/94	ND<50.000	50.00	µg/L	94-04588	R
WNNDATR	meacryln	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	mek	05/17/94	ND<10.00	10.00	µg/L	94-04588	
WNNDATR	mene_br	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	mene_cl	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	meth_i	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	methmeac	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	mibk	05/17/94	ND<10.00	10.00	µg/L	94-04588	
WNNDATR	picoline	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pntcleth	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	propnitl	05/17/94	ND<5.00	5.00	µg/L	94-04588	R
WNNDATR	pyridine	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	styrene	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	t_12_dce	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	t_13_dcp	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	t_14dc2b	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tca_111	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tca_1112	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tca_112	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tca_1122	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tcb_124	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	tcf_meth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tcp_123	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	tetcleth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	toluene	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	tricleth	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNNDATR	vnyl_ace	05/17/94	ND<5.00	5.00	µg/L	94-04588	UJ
WNNDATR	vnyl_cl	05/17/94	ND<2.00	2.00	µg/L	94-04588	
WNNDATR	xylene	05/17/94	ND<5.00	5.00	µg/L	94-04588	
WNW0905	acetone	05/19/94	ND<10.00	10.00	µg/L	94-04529	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	acetone	05/19/94	ND<10.00	10.00	µg/L	94-05674	
WNW0905	benzene	05/19/94	ND<0.70	0.70	µg/L	94-05674	
WNW0905	benzene	05/19/94	ND<0.70	0.70	µg/L	94-04529	
WNW0905	br_meth	05/19/94	ND<10.00	10.00	µg/L	94-05674	
WNW0905	br_meth	05/19/94	ND<10.00	10.00	µg/L	94-04529	
WNW0905	brdcmeth	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	brdcmeth	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	brform	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	brform	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	c_13_dcp	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	c_13_dcp	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	ccl4	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	ccl4	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	cl_benz	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	cl_benz	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	cl_eth	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	cl_eth	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	cl_form	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	cl_form	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	cl_meth	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	cl_meth	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	cs2	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	cs2	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	dbc_meth	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	dbc_meth	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	dca_11	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	dca_11	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	dca_12	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	dca_12	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	dce_11	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	dce_11	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	dce_12_t	05/19/94	ND<5.00	5.00	µg/L	94-05674	UJ
WNW0905	dce_12_t	05/19/94	ND<5.00	5.00	µg/L	94-04529	UJ
WNW0905	dcp_12	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	dcp_12	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	eth_benz	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	eth_benz	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	hexnone2	05/19/94	ND<10.00	10.00	µg/L	94-04529	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	hexnone2	05/19/94	ND<10.00	10.00	µg/L	94-05674	
WNW0905	mek	05/19/94	ND<10.00	10.00	µg/L	94-04529	
WNW0905	mek	05/19/94	ND<10.00	10.00	µg/L	94-05674	
WNW0905	mene_cl	05/19/94	ND<5.00	5.00	µg/L	94-05674	UJ
WNW0905	mene_cl	05/19/94	ND<5.00	5.00	µg/L	94-04529	UJ
WNW0905	mibk	05/19/94	ND<10.00	10.00	µg/L	94-05674	
WNW0905	mibk	05/19/94	ND<10.00	10.00	µg/L	94-04529	
WNW0905	styrene	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	styrene	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	t_13_dcp	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	t_13_dcp	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	tca_111	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	tca_111	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	tca_112	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	tca_112	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	tca_1122	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	tca_1122	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	tcb_124	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	tcb_124	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	tetcleth	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	tetcleth	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	toluene	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	toluene	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	tricleth	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	tricleth	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0905	vnyl_cl	05/19/94	ND<2.00	2.00	µg/L	94-04529	
WNW0905	vnyl_cl	05/19/94	ND<2.00	2.00	µg/L	94-05674	
WNW0905	xylene	05/19/94	ND<5.00	5.00	µg/L	94-05674	
WNW0905	xylene	05/19/94	ND<5.00	5.00	µg/L	94-04529	
WNW0907	acetone	04/28/94	ND<10.00	10.00	µg/L	94-04497	
WNW0907	benzene	04/28/94	ND<0.70	0.70	µg/L	94-04497	
WNW0907	br_meth	04/28/94	ND<10.00	10.00	µg/L	94-04497	
WNW0907	brdcmeth	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	brform	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	c_13_dcp	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	ccl4	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	cl_benz	04/28/94	ND<5.00	5.00	µg/L	94-04497	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	cl_eth	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	cl_form	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	cl_meth	04/28/94	ND<5.00	5.00	µg/L	94-04497	UJ
WNW0907	cs2	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	dbc_meth	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	dca_11	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	dca_12	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	dce_11	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	dce_12_t	04/28/94	ND<5.00	5.00	µg/L	94-04497	UJ
WNW0907	dcp_12	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	eth_benz	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	hexnone2	04/28/94	ND<10.00	10.00	µg/L	94-04497	
WNW0907	mek	04/28/94	ND<10.00	10.00	µg/L	94-04497	
WNW0907	mene_cl	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	mibk	04/28/94	ND<10.00	10.00	µg/L	94-04497	
WNW0907	styrene	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	t_13_dcp	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	tca_111	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	tca_112	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	tca_1122	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	tcb_124	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	tetcleth	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	toluene	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	tricleth	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0907	vnyl_ace	04/28/94	ND<10.00	10.00	µg/L	94-04497	UJ
WNW0907	vnyl_cl	04/28/94	ND<2.00	2.00	µg/L	94-04497	
WNW0907	xylene	04/28/94	ND<5.00	5.00	µg/L	94-04497	
WNW0909	acetone	05/17/94	ND<10.00	10.00	µg/L	94-04572	UJ
WNW0909	acnitril	05/17/94	ND<100.00	100.00	µg/L	94-04572	UJ
WNW0909	acrolein	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	acrynitr	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	allylcl	05/17/94	ND<5.00	5.00	µg/L	94-04572	R
WNW0909	benzene	05/17/94	ND<0.70	0.70	µg/L	94-04572	
WNW0909	br_meth	05/17/94	ND<10.00	10.00	µg/L	94-04572	
WNW0909	brdcmeth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	brform	05/17/94	ND<5.00	5.00	µg/L	94-04572	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	c_13_dcp	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	ccl4	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	cl_benz	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	cl_eth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	cl_form	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	cl_meth	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	cl_prene	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	clevethr	05/17/94	ND<10.00	10.00	µg/L	94-04572	
WNW0909	cs2	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dbc_meth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dbc_prop	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dbeth_12	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dca_11	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dca_12	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dcdfmeth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dce_11	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	dcp_12	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	diox_14	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	eth_benz	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	eth_meth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	hexnone2	05/17/94	ND<10.00	10.00	µg/L	94-04572	
WNW0909	ibut_alc	05/17/94	ND<50.000	50.00	µg/L	94-04572	R
WNW0909	meacryln	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	mek	05/17/94	ND<10.00	10.00	µg/L	94-04572	
WNW0909	mene_br	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	mene_cl	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	meth_i	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	methmeac	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	mibk	05/17/94	ND<10.00	10.00	µg/L	94-04572	
WNW0909	picoline	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pntcleth	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	propnitl	05/17/94	ND<5.00	5.00	µg/L	94-04572	R
WNW0909	pyridine	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	styrene	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	t_12_dce	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	t_13_dcp	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	t_14dc2b	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	tca_111	05/17/94	ND<5.00	5.00	µg/L	94-04572	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	tca_1112	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	tca_112	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	tca_1122	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	tcb_124	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	tcf_meth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	tcp_123	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	tetcleth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	toluene	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	tricleth	05/17/94	ND<5.00	5.00	µg/L	94-04572	
WNW0909	vnyl_ace	05/17/94	ND<5.00	5.00	µg/L	94-04572	UJ
WNW0909	vnyl_cl	05/17/94	ND<2.00	2.00	µg/L	94-04572	
WNW0909	xylene	05/17/94	ND<5.00	5.00	µg/L	94-04572	

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	acetone	04/29/94	ND<10.00	10.00	µg/L	94-04545	
WNW0908	benzene	04/29/94	ND<0.70	0.70	µg/L	94-04545	
WNW0908	br_meth	04/29/94	ND<10.00	10.00	µg/L	94-04545	
WNW0908	brdcmeth	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	brform	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	c_13_dcp	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	ccl4	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	cl_benz	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	cl_eth	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	cl_form	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	cl_meth	04/29/94	ND<5.00	5.00	µg/L	94-04545	UJ
WNW0908	cs2	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	dbc_meth	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	dca_11	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	dca_12	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	dce_11	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	dce_12_t	04/29/94	ND<5.00	5.00	µg/L	94-04545	UJ
WNW0908	dcp_12	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	eth_benz	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	hexnone2	04/29/94	ND<10.00	10.00	µg/L	94-04545	
WNW0908	mek	04/29/94	ND<10.00	10.00	µg/L	94-04545	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	mene_cl	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	mibk	04/29/94	ND<10.00	10.00	µg/L	94-04545	
WNW0908	styrene	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	t_13_dcp	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	tca_111	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	tca_112	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	tca_1122	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	tcb_124	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	tetcleth	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	toluene	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	tricleth	04/29/94	ND<5.00	5.00	µg/L	94-04545	
WNW0908	vnyl_cl	04/29/94	ND<2.00	2.00	µg/L	94-04545	
WNW0908	xylene	04/29/94	ND<5.00	5.00	µg/L	94-04545	

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WNW0904	acetone	05/18/94	ND<10.00	10.00	µg/L	94-04481	
WNW0904	benzene	05/18/94	ND<0.70	0.70	µg/L	94-04481	
WNW0904	br_meth	05/18/94	ND<10.00	10.00	µg/L	94-04481	
WNW0904	brdcmeth	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	brform	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	c_13_dcp	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	ccl4	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	cl_benz	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	cl_eth	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	cl_form	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	cl_meth	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	cs2	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	dbc_meth	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	dca_11	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	dca_12	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	dce_11	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	dce_12_t	05/18/94	ND<5.00	5.00	µg/L	94-04481	UJ
WNW0904	dcp_12	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	eth_benz	05/18/94	ND<5.00	5.00	µg/L	94-04481	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	hexnone2	05/18/94	ND<10.00	10.00	µg/L	94-04481	
WNW0904	mek	05/18/94	ND<10.00	10.00	µg/L	94-04481	
WNW0904	mene_cl	05/18/94	ND<5.00	5.00	µg/L	94-04481	UJ
WNW0904	mibk	05/18/94	ND<10.00	10.00	µg/L	94-04481	
WNW0904	styrene	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	t_13_dcp	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	tca_111	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	tca_112	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	tca_1122	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	tcb_124	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	tetcleth	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	toluene	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	tricleth	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0904	vnyl_cl	05/18/94	ND<2.00	2.00	µg/L	94-04481	
WNW0904	xylene	05/18/94	ND<5.00	5.00	µg/L	94-04481	
WNW0910	acetone	05/02/94	ND<10.00	10.00	µg/L	94-04513	
WNW0910	benzene	05/02/94	ND<0.70	0.70	µg/L	94-04513	
WNW0910	br_meth	05/02/94	ND<10.00	10.00	µg/L	94-04513	
WNW0910	brdcmeth	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	brform	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	c_13_dcp	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	cc14	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	cl_benz	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	cl_eth	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	cl_form	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	cl_meth	05/02/94	ND<5.00	5.00	µg/L	94-04513	UJ
WNW0910	cs2	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	dbc_meth	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	dca_11	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	dca_12	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	dce_11	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	dce_12_t	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	dcp_12	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	eth_benz	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	hexnone2	05/02/94	ND<10.00	10.00	µg/L	94-04513	
WNW0910	mek	05/02/94	ND<10.00	10.00	µg/L	94-04513	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	mene_cl	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	mibk	05/02/94	ND<10.00	10.00	µg/L	94-04513	
WNW0910	styrene	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	t_13_dcp	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	tca_111	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	tca_112	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	tca_1122	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	tcb_124	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	tetcleth	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	toluene	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	tricleth	05/02/94	ND<5.00	5.00	µg/L	94-04513	
WNW0910	vnyl_cl	05/02/94	ND<2.00	2.00	µg/L	94-04513	
WNW0910	xylene	05/02/94	ND<5.00	5.00	µg/L	94-04513	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	acnphthe	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	acnphthy	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	anthracn	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	benz_alc	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bis2ceth	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bis2cexy	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bis2clis	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bis2ehex	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bnz_a_an	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bnz_a_py	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bnz_b_fl	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bnz_k_fl	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	bnzc_acd	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	bnzghipr	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	brppeth4	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	butbnzph	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	carbazol	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	chppeth4	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	chrysene	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	clnapht2	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	clphen_2	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dbahanth	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dcb_33	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dibnzfur	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	diclph24	05/26/94	ND<10.00	10.00	µg/L	94-04744	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	diethyph	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dimthp24	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dimthyph	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dinbutph	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dinoctph	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dintrp24	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	dintrt24	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dintrt26	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	dntrcr46	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	flranthn	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	fluorene	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	hexclbnz	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	hexclbut	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	hexcleth	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	hexclpen	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	indnpyre	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	isophron	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	m_dclbnz	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	m_ntranl	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	mthynph2	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	naphthal	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	nntrphny	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	nntrprpy	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	ntrobenz	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	o_cresol	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	o_dclbnz	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	o_ntranl	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	o_ntrphn	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	p_cresol	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	p_dclbnz	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	p_ntranl	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	p_ntrphn	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	pclranil	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	pclrmcrs	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	phenol	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	phnanthr	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	pntclphn	05/26/94	ND<50.00	50.00	µg/L	94-04744	
WNW1008C	pyrene	05/26/94	ND<10.00	10.00	µg/L	94-04744	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	tclph245	05/26/94	ND<10.00	10.00	µg/L	94-04744	
WNW1008C	tclph246	05/26/94	ND<10.00	10.00	µg/L	94-04744	

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	aadimthp	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	aceanfl2	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	acetophn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	acnphthe	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	acnphthy	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	amnobph4	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	aniline	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	anthracn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	aramite	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	benz_alc	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bis2ceth	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bis2cexy	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bis2clis	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bis2ehex	05/17/94		16.00	µg/L	94-04589	J
WNNDATR	bnz_a_an	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bnz_a_py	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bnz_b_fl	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bnz_k_fl	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	bnzghipr	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	brppeth4	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	butbnzph	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	chppeth4	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	chrysene	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	clbnzilt	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	clnapht2	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	clphen_2	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dbahanth	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dcb_33	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dethylpy	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	diallate	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dibnzfur	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	diclph24	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	diclph26	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	diethyph	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dimthoat	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dimthp24	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dimthyph	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dinbutph	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dinoctph	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dintrp24	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	dintrt24	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dintrt26	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	diphnyam	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dmb_33	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dmb_7_12	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	dntrcr46	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	ethmthsl	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	famphur	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	flranthn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	fluorene	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	hexclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	hexclbut	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	hexcleth	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	hexclpen	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	hexclphn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	hexclpro	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	indnpyre	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	isodrin	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	isophron	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	isosfrol	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	kepone	05/17/94	ND<10.00	10.00	µg/L	94-04589	R
WNNDATR	m_cresol	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	m_dclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	m_dntbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	m_ntranl	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	me_mnso4	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	mthchla3	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	mthpriln	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	mthynph2	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	n_dodcan	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	naphtha1	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	naphthy2	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrethy	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrmeet	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrmorp	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrmthy	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrnbut	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrphny	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrpipr	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrprpy	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nntrpyrr	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	nphthyl1	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	npthqnl4	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	ntr5_otl	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	ntrobenz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	ntrq4_lo	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	o_cresol	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	o_dclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	o_ntranl	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	o_ntrphn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	o_toludn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	p_cresol	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	p_dclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	p_ntranl	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	p_ntrphn	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	p_phndam	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	parthion	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pclranil	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pclrmcrs	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pdimthaz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	phenol	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	phnacetn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	phnanthr	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pntclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pntclnbn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	pntclphn	05/17/94	ND<50.00	50.00	µg/L	94-04589	UJ
WNNDATR	prnamide	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	pyrene	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	safrole	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	symtrbnz	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	tcb_1245	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	tclph245	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	tclph246	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	tcph2346	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	trbutphs	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	triethph	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	ttraethd	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNW0905	acnphthe	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	acnphthe	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	acnphthy	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	acnphthy	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	anthracn	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	anthracn	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bis2ceth	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bis2ceth	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bis2cexy	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bis2cexy	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bis2clis	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bis2clis	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bis2ehex	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bis2ehex	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bnz_a_an	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bnz_a_an	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bnz_a_py	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bnz_a_py	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bnz_b_fl	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bnz_b_fl	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bnz_k_fl	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bnz_k_fl	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	bnzghipr	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	bnzghipr	05/19/94	ND<10.00	10.00	µg/L	94-05675	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	brppeth4	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	brppeth4	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	butbnzph	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	butbnzph	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	carbazol	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	carbazol	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	chppeth4	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	chppeth4	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	chrysene	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	chrysene	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	clnapht2	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	clnapht2	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	clphen_2	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	clphen_2	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dbahanth	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dbahanth	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dcb_33	05/19/94	ND<10.00	10.00	µg/L	94-04530	UJ
WNW0905	dcb_33	05/19/94	ND<10.00	10.00	µg/L	94-05675	UJ
WNW0905	dibnzfur	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dibnzfur	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	diclph24	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	diclph24	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	diethyph	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	diethyph	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dimthp24	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dimthp24	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dimthyph	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dimthyph	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dinbutph	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dinbutph	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dinoctph	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dinoctph	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dintrp24	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	dintrp24	05/19/94	ND<50.00	50.00	µg/L	94-05675	
WNW0905	dintrt24	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	dintrt24	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dintrt26	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	dintrt26	05/19/94	ND<10.00	10.00	µg/L	94-05675	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	dntrcr46	05/19/94	ND<50.00	50.00	µg/L	94-05675	
WNW0905	dntrcr46	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	flranthn	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	flranthn	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	fluorene	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	fluorene	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	hexclbnz	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	hexclbnz	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	hexclbut	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	hexclbut	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	hexcleth	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	hexcleth	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	hexclpen	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	hexclpen	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	indnpyre	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	indnpyre	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	isophron	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	isophron	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	m_dclbnz	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	m_dclbnz	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	m_ntranl	05/19/94	ND<50.00	50.00	µg/L	94-05675	
WNW0905	m_ntranl	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	mthynph2	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	mthynph2	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	naphthal	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	naphthal	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	nntrphny	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	nntrphny	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	nntrprpy	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	nntrprpy	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	ntrobenz	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	ntrobenz	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	o_cresol	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	o_cresol	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	o_dclbnz	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	o_dclbnz	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	o_ntranl	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	o_ntranl	05/19/94	ND<50.00	50.00	µg/L	94-05675	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	o_ntrphn	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	o_ntrphn	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	p_cresol	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	p_cresol	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	p_dclbnz	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	p_dclbnz	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	p_ntranl	05/19/94	ND<50.00	50.00	µg/L	94-05675	
WNW0905	p_ntranl	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	p_ntrphn	05/19/94	ND<50.00	50.00	µg/L	94-05675	
WNW0905	p_ntrphn	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	pclranil	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	pclranil	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	pclrmcrs	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	pclrmcrs	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	phenol	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	phenol	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	phnanthr	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	phnanthr	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	pntclphn	05/19/94	ND<50.00	50.00	µg/L	94-05675	
WNW0905	pntclphn	05/19/94	ND<50.00	50.00	µg/L	94-04530	
WNW0905	pyrene	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	pyrene	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	tclph245	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0905	tclph245	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	tclph246	05/19/94	ND<10.00	10.00	µg/L	94-04530	
WNW0905	tclph246	05/19/94	ND<10.00	10.00	µg/L	94-05675	
WNW0907	acnphthe	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	acnphthy	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	anthracn	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bis2ceth	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bis2cexy	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bis2clis	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bis2ehex	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bnz_a_an	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bnz_a_py	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bnz_b_fl	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	bnz_k_fl	04/28/94	ND<10.00	10.00	µg/L	94-04498	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	bnzghipr	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	brppeth4	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	butbnzph	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	carbazol	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	chppeth4	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	chrysene	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	clnapht2	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	clphen_2	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dbahanth	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dcb_33	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dibnzfur	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	diclph24	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	diethyph	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dimthp24	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dimthyph	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dinbutph	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dinoctph	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dintrp24	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	dintrt24	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dintrt26	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	dntrcr46	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	flranthn	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	fluorene	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	hexclbnz	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	hexclbut	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	hexcleth	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	hexclpen	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	indnpyre	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	isophron	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	m_dclbnz	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	m_ntranl	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	mthynph2	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	naphthal	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	nntrphny	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	nntrprpy	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	ntrobenz	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	o_cresol	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	o_dclbnz	04/28/94	ND<10.00	10.00	µg/L	94-04498	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	o_ntranl	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	o_ntrphn	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	p_cresol	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	p_dclbnz	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	p_ntranl	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	p_ntrphn	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	pclranil	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	pclrmcrs	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	phenol	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	phnanthr	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	pntclphn	04/28/94	ND<50.00	50.00	µg/L	94-04498	
WNW0907	pyrene	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	tclph245	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0907	tclph246	04/28/94	ND<10.00	10.00	µg/L	94-04498	
WNW0909	aadimthp	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	aceanfl2	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	acetophn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	acnphthe	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	acnphthy	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	amnobph4	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	aniline	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	anthracn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	aramite	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	benz_alc	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bis2ceth	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bis2cexy	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bis2clis	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bis2ehex	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bnz_a_an	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bnz_a_py	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bnz_b_fl	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bnz_k_fl	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	bnzghipr	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	brppeth4	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	butbnzph	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	chppeth4	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	chrysene	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	clbnzilt	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	clnapht2	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	clphen_2	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dbahanth	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dcb_33	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dethylpy	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	diallate	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dibnzfur	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	diclph24	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	diclph26	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	diethyph	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dimthoat	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dimthp24	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dimthyph	05/17/94	ND<10.00	10.00	µg/L	94-04573	
WNW0909	dinbutph	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dinoctph	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dintrp24	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	dintrt24	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dintrt26	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	diphnyam	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dmb_33	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dmb_7_12	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	dntrcr46	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	ethmthsl	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	famphur	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	flranthn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	fluorene	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	hexclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	hexclbut	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	hexcleth	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	hexclpen	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	hexclphn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	hexclpro	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	indnpyre	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	isodrin	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	isophron	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	isosfrol	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	kepone	05/17/94	ND<10.00	10.00	µg/L	94-04573	R

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	m_cresol	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	m_dclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	m_dntbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	m_ntranl	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	me_mnso4	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	mthchla3	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	mthpriln	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	mthynph2	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	n_dodcan	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	naphthal	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	naphthy2	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrethy	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrmeet	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrmorp	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrmthy	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrnbut	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrphny	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrpipr	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrprpy	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nntrpyrr	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	nphthyl1	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	npthqnl4	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	ntr5_otl	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	ntrobenz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	ntrq4_1o	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	o_cresol	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	o_dclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	o_ntranl	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	o_ntrphn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	o_toludn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	p_cresol	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	p_dclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	p_ntranl	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	p_ntrphn	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	p_phndam	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	parthion	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pclranil	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pclrmcrs	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	pdimthaz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	phenol	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	phnacetn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	phnanthr	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pntclbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pntclnbn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pntclphn	05/17/94	ND<50.00	50.00	µg/L	94-04573	UJ
WNW0909	prnamide	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	pyrene	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	safrole	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	symtrbnz	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	tcb_1245	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	tclph245	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	tclph246	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	tcph2346	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	trbutphs	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	triethph	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	ttraethd	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	acnphthe	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	acnphthy	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	anthracn	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bis2ceth	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bis2cexy	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bis2clis	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bis2ehex	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bnz_a_an	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bnz_a_py	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bnz_b_fl	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bnz_k_fl	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	bnzghipr	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	brppeth4	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	butbnzph	04/29/94	ND<10.00	10.00	µg/L	94-04546	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	carbazol	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	chppeth4	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	chrysene	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	clnapht2	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	clphen_2	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dbahanth	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dcb_33	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dibnzfur	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	diclph24	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	diethyph	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dimthp24	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dimthyph	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dinbutph	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dinoctph	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dintrp24	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	dintrt24	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dintrt26	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	dntrcr46	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	flranthn	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	fluorene	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	hexclbnz	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	hexclbut	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	hexcleth	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	hexclpen	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	indnpyre	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	isophron	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	m_dclbnz	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	m_ntranl	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	mthynph2	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	naphthal	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	nntrphny	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	nntrprpy	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	ntrobenz	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	o_cresol	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	o_dclbnz	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	o_ntranl	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	o_ntrphn	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	p_cresol	04/29/94	ND<10.00	10.00	µg/L	94-04546	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	p_dclbnz	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	p_ntranl	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	p_ntrphn	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	pclranil	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	pclrmcrs	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	phenol	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	phnanthr	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	pntclphn	04/29/94	ND<50.00	50.00	µg/L	94-04546	
WNW0908	pyrene	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	tclph245	04/29/94	ND<10.00	10.00	µg/L	94-04546	
WNW0908	tclph246	04/29/94	ND<10.00	10.00	µg/L	94-04546	

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WNW0904	anthracn	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bis2ceth	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bis2cexy	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bis2clis	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bis2ehex	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bnz_a_an	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bnz_a_py	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bnz_b_fl	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bnz_k_fl	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	bnzghipr	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	brppeth4	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	butbnzph	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	carbazol	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	chppeth4	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	chrysene	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	clnapht2	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	clphen_2	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dbahanth	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dcb_33	05/18/94	ND<10.00	10.00	µg/L	94-04482	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	dibnzfur	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	diclph24	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	diethyph	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dimthp24	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dimthyph	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dinbutph	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dinoctph	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dintrp24	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	dintrt24	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dintrt26	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	dntrcr46	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	flranthn	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	fluorene	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	hexclbnz	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	hexclbut	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	hexcleth	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	hexclpen	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	indnpyre	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	isophron	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	m_dclbnz	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	m_ntranl	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	mthynph2	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	naphthal	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	nntrphny	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	nntrprpy	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	ntrobenz	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	o_cresol	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	o_dclbnz	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	o_ntranl	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	o_ntrphn	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	p_cresol	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	p_dclbnz	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	p_ntranl	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	p_ntrphn	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	pclranil	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	pclrmcrs	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	phenol	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	phnanthr	05/18/94	ND<10.00	10.00	µg/L	94-04482	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	pntclphn	05/18/94	ND<50.00	50.00	µg/L	94-04482	
WNW0904	pyrene	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	tclph245	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0904	tclph246	05/18/94	ND<10.00	10.00	µg/L	94-04482	
WNW0910	acnphthe	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	acnphthy	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	anthracn	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bis2ceth	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bis2cexy	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bis2clis	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bis2ehex	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bnz_a_an	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bnz_a_py	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bnz_b_fl	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bnz_k_fl	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	bnzghipr	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	brppeth4	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	butbnzph	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	carbazol	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	chppeth4	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	chrysene	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	clnapht2	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	clphen_2	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dbahanth	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dcb_33	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dibnzfur	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	diclph24	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	diethyph	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dimthp24	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dimthyph	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dinbutph	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dinoctph	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dintrp24	05/02/94	ND<50.00	50.00	µg/L	94-04514	
WNW0910	dintrt24	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dintrt26	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	dntrcr46	05/02/94	ND<50.00	50.00	µg/L	94-04514	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	flranthn	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	fluorene	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	hexclbnz	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	hexclbut	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	hexcleth	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	hexclpen	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	indnpyre	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	isophron	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	m_dclbnz	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	m_ntranl	05/02/94	ND<50.00	50.00	µg/L	94-04514	
WNW0910	mthynph2	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	naphthal	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	nntrphny	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	nntrprpy	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	ntrobenz	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	o_cresol	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	o_dclbnz	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	o_ntranl	05/02/94	ND<50.00	50.00	µg/L	94-04514	
WNW0910	o_ntrphn	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	p_cresol	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	p_dclbnz	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	p_ntranl	05/02/94	ND<50.00	50.00	µg/L	94-04514	
WNW0910	p_ntrphn	05/02/94	ND<50.00	50.00	µg/L	94-04514	UJ
WNW0910	pclranil	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	pclrmcrs	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	phenol	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	phnanthr	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	pntclphn	05/02/94	ND<50.00	50.00	µg/L	94-04514	
WNW0910	pyrene	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	tclph245	05/02/94	ND<10.00	10.00	µg/L	94-04514	
WNW0910	tclph246	05/02/94	ND<10.00	10.00	µg/L	94-04514	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	ag_t	05/26/94	ND<0.40	0.40	µg/L	94-04745	
WNW1008C	al_s	05/26/94	ND<90.00	90.00	µg/L	94-04741	
WNW1008C	al_t	05/26/94	ND<90.00	90.00	µg/L	94-04745	
WNW1008C	as_t	05/26/94		5.00	µg/L	94-04745	
WNW1008C	ba_t	05/26/94		228.00	µg/L	94-04745	
WNW1008C	be_t	05/26/94	ND<3.00	3.00	µg/L	94-04745	
WNW1008C	ca_s	05/26/94		81200.00	µg/L	94-04741	J
WNW1008C	ca_t	05/26/94		75300.00	µg/L	94-04745	J
WNW1008C	cd_t	05/26/94	ND<0.20	0.20	µg/L	94-04745	
WNW1008C	cl	05/26/94		32.50	mg/L	94-04740	
WNW1008C	co3	05/26/94	ND<1.00	1.00	mg/L	94-04740	
WNW1008C	co_t	05/26/94	ND<10.00	10.00	µg/L	94-04745	
WNW1008C	cr_t	05/26/94	ND<10.00	10.00	µg/L	94-04745	
WNW1008C	cu_t	05/26/94	ND<10.00	10.00	µg/L	94-04745	
WNW1008C	cyan_tot	05/26/94	ND<10.00	10.00	mg/L	94-04747	UJ
WNW1008C	fe_s	05/26/94	ND<40.00	40.00	µg/L	94-04741	
WNW1008C	fe_t	05/26/94	ND<40.00	40.00	µg/L	94-04745	
WNW1008C	hco3	05/26/94		213.00	mg/L	94-04740	
WNW1008C	hg_t	05/26/94	ND<0.20	0.20	µg/L	94-04745	
WNW1008C	hydroxyl	05/26/94	ND<1.00	1.00	mg/L	94-04740	
WNW1008C	k_s	05/26/94		692.00	µg/L	94-04741	
WNW1008C	k_t	05/26/94		689.00	µg/L	94-04745	
WNW1008C	mg_s	05/26/94		18300.00	µg/L	94-04741	
WNW1008C	mg_t	05/26/94		17200.00	µg/L	94-04745	
WNW1008C	mn_s	05/26/94		180.00	µg/L	94-04741	
WNW1008C	mn_t	05/26/94		185.00	µg/L	94-04745	
WNW1008C	na_s	05/26/94		13200.00	µg/L	94-04741	
WNW1008C	na_t	05/26/94		13800.00	µg/L	94-04745	
WNW1008C	nh3	05/26/94	ND<0.05	0.05	mg/L	94-04737	
WNW1008C	ni_t	05/26/94	ND<30.00	30.00	µg/L	94-04745	
WNW1008C	no3no2	05/26/94	ND<0.05	0.05	mg/L	94-04739	
WNW1008C	pb_t	05/26/94	ND<2.00	2.00	µg/L	94-04745	
WNW1008C	po4_totl	05/26/94	ND<0.02	0.02	mg/L	94-04739	
WNW1008C	sb_t	05/26/94	ND<5.00	5.00	µg/L	94-04745	
WNW1008C	se_t	05/26/94	ND<3.00	3.00	µg/L	94-04745	
WNW1008C	silica	05/26/94		12.90	mg/L	94-04740	
WNW1008C	so4	05/26/94		17.60	mg/L	94-04740	J
WNW1008C	sulfide	05/26/94	ND<1.00	1.00	mg/L	94-04742	
WNW1008C	tl_t	05/26/94	ND<5.00	5.00	µg/L	94-04745	
WNW1008C	v_t	05/26/94	ND<10.00	10.00	µg/L	94-04745	
WNW1008C	zn_t	05/26/94	ND<10.00	10.00	µg/L	94-04745	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	ag_t	05/17/94	ND<0.60	0.60	µg/L	94-04590	
WNNDATR	al_s	05/17/94	ND<90.00	90.00	µg/L	94-04586	
WNNDATR	al_t	05/17/94		180.00	µg/L	94-04590	
WNNDATR	as_t	05/17/94		3.00	µg/L	94-04590	
WNNDATR	ba_t	05/17/94		103.00	µg/L	94-04590	
WNNDATR	be_t	05/17/94	ND<3.00	3.00	µg/L	94-04590	
WNNDATR	ca_s	05/17/94		137000.00	µg/L	94-04586	
WNNDATR	ca_t	05/17/94		136000.00	µg/L	94-04590	
WNNDATR	cd_t	05/17/94	ND<0.20	0.20	µg/L	94-04590	
WNNDATR	cl	05/17/94		77.20	mg/L	94-04585	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	co3	05/17/94	ND<1.00	1.00	mg/L	94-04585	
WNNDATR	co_t	05/17/94	ND<10.00	10.00	µg/L	94-04590	
WNNDATR	cr_t	05/17/94	ND<10.00	10.00	µg/L	94-04590	
WNNDATR	cu_t	05/17/94	ND<10.00	10.00	µg/L	94-04590	
WNNDATR	cyan_tot	05/17/94	ND<10.00	10.00	mg/L	94-04592	
WNNDATR	fe_s	05/17/94	ND<40.00	40.00	µg/L	94-04586	
WNNDATR	fe_t	05/17/94		92.00	µg/L	94-04590	
WNNDATR	hco3	05/17/94		311.00	mg/L	94-04585	
WNNDATR	hg_t	05/17/94	ND<0.20	0.20	µg/L	94-04590	
WNNDATR	hydroxyl	05/17/94	ND<1.00	1.00	mg/L	94-04585	
WNNDATR	k_s	05/17/94		3550.00	µg/L	94-04586	
WNNDATR	k_t	05/17/94		3730.00	µg/L	94-04590	
WNNDATR	mg_s	05/17/94		36100.00	µg/L	94-04586	
WNNDATR	mg_t	05/17/94		36200.00	µg/L	94-04590	
WNNDATR	mn_s	05/17/94	ND<5.00	5.00	µg/L	94-04586	
WNNDATR	mn_t	05/17/94	ND<5.00	5.00	µg/L	94-04590	
WNNDATR	na_s	05/17/94		53200.00	µg/L	94-04586	
WNNDATR	na_t	05/17/94		53300.00	µg/L	94-04590	
WNNDATR	nh3	05/17/94	ND<0.05	0.05	mg/L	94-04582	
WNNDATR	ni_t	05/17/94	ND<30.00	30.00	µg/L	94-04590	
WNNDATR	no3no2	05/17/94		0.62	mg/L	94-04584	
WNNDATR	pb_t	05/17/94	ND<2.00	2.00	µg/L	94-04590	
WNNDATR	po4_totl	05/17/94		0.03	mg/L	94-04584	
WNNDATR	sb_t	05/17/94	ND<6.00	6.00	µg/L	94-04590	
WNNDATR	se_t	05/17/94	ND<3.00	3.00	µg/L	94-04590	
WNNDATR	silica	05/17/94		12.80	mg/L	94-04585	
WNNDATR	sn_t	05/17/94	ND<2000.00	2000.00	µg/L	94-04590	
WNNDATR	so4	05/17/94	ND<1.00	1.00	mg/L	94-04585	
WNNDATR	sulfide	05/17/94	ND<1.00	1.00	mg/L	94-04587	
WNNDATR	tl_t	05/17/94	ND<3.00	3.00	µg/L	94-04590	
WNNDATR	zn_t	05/17/94	ND<10.00	10.00	µg/L	94-04590	
WNW0905	ag_t	05/19/94	ND<0.30	0.30	µg/L	94-05676	UJ
WNW0905	ag_t	05/19/94	ND<0.30	0.30	µg/L	94-04531	UJ
WNW0905	al_s	05/19/94	ND<90.00	90.00	µg/L	94-05672	
WNW0905	al_s	05/19/94	ND<90.00	90.00	µg/L	94-04527	
WNW0905	al_t	05/19/94	ND<90.00	90.00	µg/L	94-04531	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	al_t	05/19/94	ND<90.00	90.00	µg/L	94-05676	
WNW0905	as_t	05/19/94	ND<3.00	3.00	µg/L	94-05676	
WNW0905	as_t	05/19/94	ND<3.00	3.00	µg/L	94-04531	
WNW0905	ba_t	05/19/94	ND<20.00	20.00	µg/L	94-05676	
WNW0905	ba_t	05/19/94	ND<20.00	20.00	µg/L	94-04531	
WNW0905	be_t	05/19/94	ND<3.00	3.00	µg/L	94-05676	
WNW0905	be_t	05/19/94	ND<3.00	3.00	µg/L	94-04531	
WNW0905	ca_s	05/19/94		264000.00	µg/L	94-05672	
WNW0905	ca_s	05/19/94		272000.00	µg/L	94-04527	
WNW0905	ca_t	05/19/94		237000.00	µg/L	94-05676	
WNW0905	ca_t	05/19/94		243000.00	µg/L	94-04531	
WNW0905	cd_t	05/19/94	ND<0.20	0.20	µg/L	94-05676	
WNW0905	cd_t	05/19/94	ND<0.20	0.20	µg/L	94-04531	
WNW0905	cl	05/19/94		8.90	mg/L	94-04526	
WNW0905	cl	05/19/94		9.00	mg/L	94-05671	
WNW0905	co3	05/19/94	ND<1.00	1.00	mg/L	94-05671	
WNW0905	co3	05/19/94	ND<1.00	1.00	mg/L	94-04526	
WNW0905	co_t	05/19/94	ND<10.00	10.00	µg/L	94-04531	
WNW0905	co_t	05/19/94	ND<10.00	10.00	µg/L	94-05676	
WNW0905	cr_t	05/19/94	ND<10.00	10.00	µg/L	94-04531	
WNW0905	cr_t	05/19/94	ND<10.00	10.00	µg/L	94-05676	
WNW0905	cu_t	05/19/94	ND<10.00	10.00	µg/L	94-04531	
WNW0905	cu_t	05/19/94	ND<10.00	10.00	µg/L	94-05676	
WNW0905	cyan_tot	05/19/94	ND<10.00	10.00	mg/L	94-05678	
WNW0905	cyan_tot	05/19/94	ND<10.00	10.00	mg/L	94-04533	
WNW0905	fe_s	05/19/94		1940.00	µg/L	94-04527	
WNW0905	fe_s	05/19/94		1880.00	µg/L	94-05672	
WNW0905	fe_t	05/19/94		1720.00	µg/L	94-04531	
WNW0905	fe_t	05/19/94		1640.00	µg/L	94-05676	
WNW0905	hco3	05/19/94		379.00	mg/L	94-04526	
WNW0905	hco3	05/19/94		377.00	mg/L	94-05671	
WNW0905	hg_t	05/19/94	ND<0.20	0.20	µg/L	94-05676	
WNW0905	hg_t	05/19/94	ND<0.20	0.20	µg/L	94-04531	
WNW0905	hydroxyl	05/19/94	ND<1.00	1.00	mg/L	94-04526	
WNW0905	hydroxyl	05/19/94	ND<1.00	1.00	mg/L	94-05671	
WNW0905	k_s	05/19/94		3590.00	µg/L	94-05672	
WNW0905	k_s	05/19/94		3510.00	µg/L	94-04527	
WNW0905	k_t	05/19/94		3690.00	µg/L	94-04531	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	k_t	05/19/94		3620.00	µg/L	94-05676	
WNW0905	mg_s	05/19/94		79700.00	µg/L	94-04527	
WNW0905	mg_s	05/19/94		80100.00	µg/L	94-05672	
WNW0905	mg_t	05/19/94		80600.00	µg/L	94-04531	
WNW0905	mg_t	05/19/94		79000.00	µg/L	94-05676	
WNW0905	mn_s	05/19/94		600.00	µg/L	94-04527	J
WNW0905	mn_s	05/19/94		583.00	µg/L	94-05672	J
WNW0905	mn_t	05/19/94		511.00	µg/L	94-05676	J
WNW0905	mn_t	05/19/94		520.00	µg/L	94-04531	J
WNW0905	na_s	05/19/94		14300.00	µg/L	94-05672	
WNW0905	na_s	05/19/94		14000.00	µg/L	94-04527	
WNW0905	na_t	05/19/94		16600.00	µg/L	94-05676	
WNW0905	na_t	05/19/94		16900.00	µg/L	94-04531	
WNW0905	nh3	05/19/94		0.06	mg/L	94-04523	
WNW0905	nh3	05/19/94		0.07	mg/L	94-05668	
WNW0905	ni_t	05/19/94	ND<20.00	20.00	µg/L	94-05676	
WNW0905	ni_t	05/19/94	ND<20.00	20.00	µg/L	94-04531	
WNW0905	no3no2	05/19/94	ND<0.05	0.05	mg/L	94-04525	
WNW0905	no3no2	05/19/94	ND<0.05	0.05	mg/L	94-05670	
WNW0905	pb_t	05/19/94	ND<2.00	2.00	µg/L	94-04531	
WNW0905	pb_t	05/19/94	ND<2.00	2.00	µg/L	94-05676	
WNW0905	po4_totl	05/19/94		0.05	mg/L	94-05670	
WNW0905	po4_totl	05/19/94		0.07	mg/L	94-04525	
WNW0905	sb_t	05/19/94	ND<6.00	6.00	µg/L	94-05676	
WNW0905	sb_t	05/19/94	ND<6.00	6.00	µg/L	94-04531	
WNW0905	se_t	05/19/94	ND<3.00	3.00	µg/L	94-04531	
WNW0905	se_t	05/19/94	ND<3.00	3.00	µg/L	94-05676	
WNW0905	silica	05/19/94		14.30	mg/L	94-05671	
WNW0905	silica	05/19/94		13.40	mg/L	94-04526	
WNW0905	so4	05/19/94		609.00	mg/L	94-04526	
WNW0905	so4	05/19/94		595.00	mg/L	94-05671	
WNW0905	sulfide	05/19/94	ND<1.00	1.00	mg/L	94-04528	
WNW0905	sulfide	05/19/94	ND<1.00	1.00	mg/L	94-05673	
WNW0905	tl_t	05/19/94	ND<5.00	5.00	µg/L	94-05676	
WNW0905	tl_t	05/19/94	ND<5.00	5.00	µg/L	94-04531	
WNW0905	v_t	05/19/94	ND<10.00	10.00	µg/L	94-05676	
WNW0905	v_t	05/19/94	ND<10.00	10.00	µg/L	94-04531	
WNW0905	zn_t	05/19/94	ND<10.00	10.00	µg/L	94-04531	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	zn_t	05/19/94	ND<10.00	10.00	µg/L	94-05676	
WNW0906	al_s	04/28/94	ND<90.00	90.00	µg/L	94-04559	
WNW0906	al_t	04/28/94		2700.00	µg/L	94-04611	
WNW0906	ca_s	04/28/94		86300.00	µg/L	94-04559	J
WNW0906	ca_t	04/28/94		65600.00	µg/L	94-04611	J
WNW0906	cl	04/28/94		5.10	mg/L	94-04558	
WNW0906	co3	04/28/94	ND<1.00	1.00	mg/L	94-04558	
WNW0906	fe_s	04/28/94	ND<40.00	40.00	µg/L	94-04559	
WNW0906	fe_t	04/28/94		3900.00	µg/L	94-04611	
WNW0906	hco3	04/28/94		206.00	mg/L	94-04558	
WNW0906	hydroxyl	04/28/94	ND<1.00	1.00	mg/L	94-04558	
WNW0906	k_s	04/28/94		1600.00	µg/L	94-04559	
WNW0906	k_t	04/28/94		2500.00	µg/L	94-04611	
WNW0906	mg_s	04/28/94		24700.00	µg/L	94-04559	
WNW0906	mg_t	04/28/94		23500.00	µg/L	94-04611	
WNW0906	mn_s	04/28/94	ND<5.00	5.00	µg/L	94-04559	
WNW0906	mn_t	04/28/94		83.00	µg/L	94-04611	
WNW0906	na_s	04/28/94		17900.00	µg/L	94-04559	
WNW0906	na_t	04/28/94		22300.00	µg/L	94-04611	
WNW0906	nh3	04/28/94	ND<0.05	0.05	mg/L	94-04555	
WNW0906	no3no2	04/28/94		0.65	mg/L	94-04557	
WNW0906	po4_totl	04/28/94		0.08	mg/L	94-04557	
WNW0906	silica	04/28/94		8.70	mg/L	94-04558	
WNW0906	so4	04/28/94		92.00	mg/L	94-04558	
WNW0906	sulfide	04/28/94	ND<1.00	1.00	mg/L	94-04560	
WNW0907	ag_t	04/29/94	ND<0.40	0.40	µg/L	94-04499	UJ
WNW0907	al_s	04/29/94	ND<90.00	90.00	µg/L	94-04495	
WNW0907	al_t	04/29/94	ND<90.00	90.00	µg/L	94-04499	
WNW0907	as_t	04/29/94	ND<3.00	3.00	µg/L	94-04499	
WNW0907	ba_t	04/29/94		42.10	µg/L	94-04499	--
WNW0907	be_t	04/29/94	ND<3.00	3.00	µg/L	94-04499	
WNW0907	ca_s	04/29/94		92500.00	µg/L	94-04495	J
WNW0907	ca_t	04/29/94		97500.00	µg/L	94-04499	J
WNW0907	cd_t	04/29/94	ND<0.20	0.20	µg/L	94-04499	
WNW0907	cl	04/28/94		1.80	mg/L	94-04494	
WNW0907	co3	04/28/94	ND<1.00	1.00	mg/L	94-04494	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	co_t	04/29/94	ND<10.00	10.00	µg/L	94-04499	
WNW0907	cr_t	04/29/94	ND<10.00	10.00	µg/L	94-04499	
WNW0907	cu_t	04/29/94	ND<10.00	10.00	µg/L	94-04499	
WNW0907	cyan_tot	04/28/94	ND<10.00	10.00	mg/L	94-04501	
WNW0907	fe_s	04/29/94	ND<40.00	40.00	µg/L	94-04495	
WNW0907	fe_t	04/29/94		95.00	µg/L	94-04499	
WNW0907	hco3	04/28/94		315.00	mg/L	94-04494	
WNW0907	hg_t	04/29/94	ND<0.20	0.20	µg/L	94-04499	
WNW0907	hydroxyl	04/28/94	ND<1.00	1.00	mg/L	94-04494	
WNW0907	k_s	04/29/94		1750.00	µg/L	94-04495	
WNW0907	k_t	04/29/94		1660.00	µg/L	94-04499	
WNW0907	mg_s	04/29/94		36000.00	µg/L	94-04495	J
WNW0907	mg_t	04/29/94		36700.00	µg/L	94-04499	J
WNW0907	mn_s	04/29/94	ND<5.00	5.00	µg/L	94-04495	
WNW0907	mn_t	04/29/94		9.00	µg/L	94-04499	
WNW0907	na_s	04/29/94		8450.00	µg/L	94-04495	J
WNW0907	na_t	04/29/94		9490.00	µg/L	94-04499	J
WNW0907	nh3	04/29/94	ND<0.05	0.05	mg/L	94-04491	
WNW0907	ni_t	04/29/94	ND<30.00	30.00	µg/L	94-04499	
WNW0907	no3no2	04/28/94	ND<0.05	0.05	mg/L	94-04493	
WNW0907	pb_t	04/29/94	ND<2.00	2.00	µg/L	94-04499	
WNW0907	po4_totl	04/28/94	ND<0.02	0.02	mg/L	94-04493	
WNW0907	sb_t	04/29/94	ND<6.00	6.00	µg/L	94-04499	
WNW0907	se_t	04/29/94	ND<3.00	3.00	µg/L	94-04499	
WNW0907	silica	04/28/94		10.60	mg/L	94-04494	
WNW0907	so4	04/28/94		93.20	mg/L	94-04494	
WNW0907	sulfide	04/28/94	ND<1.00	1.00	mg/L	94-04496	
WNW0907	tl_t	04/29/94	ND<3.00	3.00	µg/L	94-04499	
WNW0907	v_t	04/29/94	ND<10.00	10.00	µg/L	94-04499	
WNW0907	zn_t	04/29/94	ND<10.00	10.00	µg/L	94-04499	
WNW0909	ag_t	05/17/94	ND<0.60	0.60	µg/L	94-04574	
WNW0909	al_s	05/17/94	ND<90.00	90.00	µg/L	94-04570	
WNW0909	al_t	05/17/94		350.00	µg/L	94-04574	
WNW0909	as_t	05/17/94		3.00	µg/L	94-04574	
WNW0909	ba_t	05/17/94		116.00	µg/L	94-04574	
WNW0909	be_t	05/17/94	ND<3.00	3.00	µg/L	94-04574	

WEATHERED LAVERY TILL

DOWNGRADIENT

ND< = Compound Not Detected

RFI: 0003008.RM

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	ca_s	05/17/94		215000.00	µg/L	94-04570	
WNW0909	ca_t	05/17/94		210000.00	µg/L	94-04574	
WNW0909	cd_t	05/17/94		0.40	µg/L	94-04574	
WNW0909	cl	05/17/94		18.30	mg/L	94-04569	
WNW0909	co3	05/17/94	ND<1.00	1.00	mg/L	94-04569	
WNW0909	co_t	05/17/94		11.60	µg/L	94-04574	
WNW0909	cr_t	05/17/94	ND<10.00	10.00	µg/L	94-04574	
WNW0909	cu_t	05/17/94	ND<10.00	10.00	µg/L	94-04574	
WNW0909	cyan_tot	05/17/94	ND<10.00	10.00	mg/L	94-04576	
WNW0909	fe_s	05/17/94		726.00	µg/L	94-04570	
WNW0909	fe_t	05/17/94		702.00	µg/L	94-04574	
WNW0909	hco3	05/17/94		539.00	mg/L	94-04569	
WNW0909	hg_t	05/17/94	ND<0.20	0.20	µg/L	94-04574	
WNW0909	hydroxyl	05/17/94	ND<1.00	1.00	mg/L	94-04569	
WNW0909	k_s	05/17/94		2030.00	µg/L	94-04570	
WNW0909	k_t	05/17/94		2220.00	µg/L	94-04574	
WNW0909	mg_s	05/17/94		41200.00	µg/L	94-04570	
WNW0909	mg_t	05/17/94		44800.00	µg/L	94-04574	
WNW0909	mn_s	05/17/94		2200.00	µg/L	94-04570	
WNW0909	mn_t	05/17/94		1970.00	µg/L	94-04574	
WNW0909	na_s	05/17/94		11600.00	µg/L	94-04570	
WNW0909	na_t	05/17/94		13600.00	µg/L	94-04574	
WNW0909	nh3	05/17/94		0.29	mg/L	94-04566	
WNW0909	ni_t	05/17/94		42.10	µg/L	94-04574	
WNW0909	no3no2	05/17/94	ND<0.05	0.05	mg/L	94-04568	
WNW0909	pb_t	05/17/94	ND<2.00	2.00	µg/L	94-04574	
WNW0909	po4_totl	05/17/94		0.11	mg/L	94-04568	
WNW0909	sb_t	05/17/94	ND<6.00	6.00	µg/L	94-04574	
WNW0909	se_t	05/17/94	ND<3.00	3.00	µg/L	94-04574	
WNW0909	silica	05/17/94		17.30	mg/L	94-04569	
WNW0909	sn_t	05/17/94	ND<2000.00	2000.00	µg/L	94-04574	
WNW0909	so4	05/17/94		769.00	mg/L	94-04569	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	sulfide	05/17/94	ND<1.00	1.00	mg/L	94-04571	
WNW0909	tl_t	05/17/94	ND<3.00	3.00	µg/L	94-04574	
WNW0909	zn_t	05/17/94	ND<10.00	10.00	µg/L	94-04574	

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	ag_t	04/29/94	ND<0.40	0.40	µg/L	94-04547	UJ
WNW0908	al_s	04/29/94	ND<90.00	90.00	µg/L	94-04543	
WNW0908	al_t	04/29/94		682.00	µg/L	94-04547	
WNW0908	as_t	04/29/94	ND<3.00	3.00	µg/L	94-04547	
WNW0908	ba_t	04/29/94		21.40	µg/L	94-04547	
WNW0908	be_t	04/29/94	ND<3.00	3.00	µg/L	94-04547	
WNW0908	ca_s	04/29/94		556000.00	µg/L	94-04543	J
WNW0908	ca_t	04/29/94		480000.00	µg/L	94-04547	J
WNW0908	cd_t	04/29/94	ND<0.20	0.20	µg/L	94-04547	
WNW0908	cl	04/29/94		8.30	mg/L	94-04542	
WNW0908	co3	04/29/94	ND<1.00	1.00	mg/L	94-04542	
WNW0908	co_t	04/29/94	ND<10.00	10.00	µg/L	94-04547	
WNW0908	cr_t	04/29/94		10.80	µg/L	94-04547	
WNW0908	cu_t	04/29/94		15.60	µg/L	94-04547	
WNW0908	cyan_tot	04/29/94	ND<10.00	10.00	mg/L	94-04549	
WNW0908	fe_s	04/29/94	ND<40.00	40.00	µg/L	94-04543	
WNW0908	fe_t	04/29/94		1330.00	µg/L	94-04547	
WNW0908	hco3	04/29/94		283.00	mg/L	94-04542	
WNW0908	hg_t	04/29/94	ND<0.20	0.20	µg/L	94-04547	
WNW0908	hydroxyl	04/29/94	ND<1.00	1.00	mg/L	94-04542	
WNW0908	k_s	04/29/94		5150.00	µg/L	94-04543	
WNW0908	k_t	04/29/94		5220.00	µg/L	94-04547	
WNW0908	mg_s	04/29/94		176000.00	µg/L	94-04543	J
WNW0908	mg_t	04/29/94		171000.00	µg/L	94-04547	J
WNW0908	mn_s	04/29/94		10.40	µg/L	94-04543	
WNW0908	mn_t	04/29/94		107.00	µg/L	94-04547	
WNW0908	na_s	04/29/94		25000.00	µg/L	94-04543	J
WNW0908	na_t	04/29/94		26700.00	µg/L	94-04547	J
WNW0908	nh3	04/29/94	ND<0.05	0.05	mg/L	94-04539	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	ni_t	04/29/94	ND<30.00	30.00	µg/L	94-04547	
WNW0908	no3no2	04/29/94		0.07	mg/L	94-04541	
WNW0908	pb_t	04/29/94		3.00	µg/L	94-04547	
WNW0908	po4_totl	04/29/94		0.06	mg/L	94-04541	
WNW0908	sb_t	04/29/94	ND<6.00	6.00	µg/L	94-04547	
WNW0908	se_t	04/29/94	ND<3.00	3.00	µg/L	94-04547	
WNW0908	silica	04/29/94		9.10	mg/L	94-04542	
WNW0908	so4	04/29/94		1780.00	mg/L	94-04542	
WNW0908	sulfide	04/29/94	ND<1.00	1.00	mg/L	94-04544	
WNW0908	tl_t	04/29/94	ND<3.00	3.00	µg/L	94-04547	
WNW0908	v_t	04/29/94	ND<10.00	10.00	µg/L	94-04547	
WNW0908	zn_t	04/29/94		17.80	µg/L	94-04547	

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WNW0904	ag_t	05/18/94	ND<0.30	0.30	µg/L	94-04483	UJ
WNW0904	al_s	05/23/94	ND<90.00	90.00	µg/L	94-04479	
WNW0904	al_t	05/18/94		704.00	µg/L	94-04483	
WNW0904	as_t	05/18/94	ND<3.00	3.00	µg/L	94-04483	
WNW0904	ba_t	05/18/94		56.00	µg/L	94-04483	
WNW0904	be_t	05/18/94	ND<3.00	3.00	µg/L	94-04483	
WNW0904	ca_s	05/23/94		106000.00	µg/L	94-04479	J
WNW0904	ca_t	05/18/94		101000.00	µg/L	94-04483	
WNW0904	cd_t	05/18/94	ND<0.20	0.20	µg/L	94-04483	
WNW0904	cl	05/18/94		6.20	mg/L	94-04478	
WNW0904	co3	05/18/94	ND<1.00	1.00	mg/L	94-04478	
WNW0904	co_t	05/18/94	ND<10.00	10.00	µg/L	94-04483	
WNW0904	cr_t	05/18/94	ND<10.00	10.00	µg/L	94-04483	
WNW0904	cu_t	05/18/94	ND<10.00	10.00	µg/L	94-04483	
WNW0904	cyan_tot	05/18/94	ND<10.00	10.00	mg/L	94-04485	
WNW0904	fe_s	05/23/94	ND<40.00	40.00	µg/L	94-04479	
WNW0904	fe_t	05/18/94		1440.00	µg/L	94-04483	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	hco3	05/18/94		226.00	mg/L	94-04478	
WNW0904	hg_t	05/18/94	ND<0.20	0.20	µg/L	94-04483	
WNW0904	hydroxyl	05/18/94	ND<1.00	1.00	mg/L	94-04478	
WNW0904	k_s	05/23/94		1640.00	µg/L	94-04479	
WNW0904	k_t	05/18/94		1770.00	µg/L	94-04483	
WNW0904	mg_s	05/23/94		30000.00	µg/L	94-04479	
WNW0904	mg_t	05/18/94		29400.00	µg/L	94-04483	
WNW0904	mn_s	05/23/94	ND<5.00	5.00	µg/L	94-04479	
WNW0904	mn_t	05/18/94		47.00	µg/L	94-04483	
WNW0904	na_s	05/23/94		24500.00	µg/L	94-04479	
WNW0904	na_t	05/18/94		22200.00	µg/L	94-04483	
WNW0904	nh3	05/18/94	ND<0.05	0.05	mg/L	94-04475	
WNW0904	ni_t	05/18/94	ND<20.00	20.00	µg/L	94-04483	
WNW0904	no3no2	05/18/94		0.21	mg/L	94-04477	
WNW0904	pb_t	05/18/94	ND<2.00	2.00	µg/L	94-04483	
WNW0904	po4_totl	05/18/94		0.14	mg/L	94-04477	
WNW0904	sb_t	05/18/94	ND<6.00	6.00	µg/L	94-04483	
WNW0904	se_t	05/18/94	ND<3.00	3.00	µg/L	94-04483	
WNW0904	silica	05/18/94		8.90	mg/L	94-04478	
WNW0904	so4	05/18/94		186.00	mg/L	94-04478	
WNW0904	sulfide	05/18/94	ND<1.00	1.00	mg/L	94-04480	
WNW0904	tl_t	05/18/94	ND<5.00	5.00	µg/L	94-04483	
WNW0904	v_t	05/18/94	ND<10.00	10.00	µg/L	94-04483	
WNW0904	zn_t	05/18/94		30.00	µg/L	94-04483	
WNW0910	ag_t	05/17/94	ND<0.60	0.60	µg/L	94-04515	
WNW0910	al_s	05/17/94	ND<90.00	90.00	µg/L	94-04511	
WNW0910	al_t	05/17/94	ND<150.00	150.00	µg/L	94-04515	
WNW0910	as_t	05/17/94	ND<3.00	3.00	µg/L	94-04515	
WNW0910	ba_t	05/17/94	ND<20.00	20.00	µg/L	94-04515	
WNW0910	be_t	05/17/94	ND<3.00	3.00	µg/L	94-04515	
WNW0910	ca_s	05/17/94		240000.00	µg/L	94-04511	
WNW0910	ca_t	05/17/94		244000.00	µg/L	94-04515	
WNW0910	cd_t	05/17/94		1.70	µg/L	94-04515	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	cl	05/17/94		1.70	mg/L	94-04510	
WNW0910	co3	05/17/94	ND<1.00	1.00	mg/L	94-04510	
WNW0910	co_t	05/17/94		10.00	µg/L	94-04515	
WNW0910	cr_t	05/17/94	ND<10.00	10.00	µg/L	94-04515	
WNW0910	cu_t	05/17/94	ND<10.00	10.00	µg/L	94-04515	
WNW0910	cyan_tot	05/17/94	ND<10.00	10.00	mg/L	94-04517	
WNW0910	fe_s	05/17/94	ND<40.00	40.00	µg/L	94-04511	
WNW0910	fe_t	05/17/94		127.00	µg/L	94-04515	
WNW0910	hco3	05/17/94		352.00	mg/L	94-04510	
WNW0910	hg_t	05/17/94	ND<0.20	0.20	µg/L	94-04515	
WNW0910	hydroxyl	05/17/94	ND<1.00	1.00	mg/L	94-04510	
WNW0910	k_s	05/17/94		7540.00	µg/L	94-04511	
WNW0910	k_t	05/17/94		7810.00	µg/L	94-04515	
WNW0910	mg_s	05/17/94		104000.00	µg/L	94-04511	
WNW0910	mg_t	05/17/94		105000.00	µg/L	94-04515	
WNW0910	mn_s	05/17/94		155.00	µg/L	94-04511	R
WNW0910	mn_t	05/17/94		84.00	µg/L	94-04515	R
WNW0910	na_s	05/17/94		45500.00	µg/L	94-04511	
WNW0910	na_t	05/17/94		50700.00	µg/L	94-04515	
WNW0910	nh3	05/17/94		0.41	mg/L	94-04507	
WNW0910	ni_t	05/17/94	ND<30.00	30.00	µg/L	94-04515	
WNW0910	no3no2	05/17/94		0.12	mg/L	94-04509	
WNW0910	pb_t	05/17/94	ND<2.00	2.00	µg/L	94-04515	
WNW0910	po4_totl	05/17/94		0.15	mg/L	94-04509	
WNW0910	sb_t	05/17/94	ND<6.00	6.00	µg/L	94-04515	
WNW0910	se_t	05/17/94	ND<3.00	3.00	µg/L	94-04515	
WNW0910	silica	05/17/94		15.00	mg/L	94-04510	
WNW0910	so4	05/17/94		159.00	mg/L	94-04510	
WNW0910	sulfide	05/17/94	ND<1.00	1.00	mg/L	94-04512	
WNW0910	tl_t	05/17/94	ND<3.00	3.00	µg/L	94-04515	
WNW0910	v_t	05/17/94	ND<10.00	10.00	µg/L	94-04515	
WNW0910	zn_t	05/17/94	ND<10.00	10.00	µg/L	94-04515	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	a_bhc	05/26/94	ND<0.05	0.05	µg/L	94-04746	UJ
WNW1008C	a_chrldn	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	aldrin	05/26/94	ND<0.05	0.05	µg/L	94-04746	
WNW1008C	b_bhc	05/26/94	ND<0.05	0.05	µg/L	94-04746	
WNW1008C	d_bhc	05/26/94	ND<0.05	0.05	µg/L	94-04746	UJ
WNW1008C	ddd_44	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	dde_44	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	ddt_44	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	dieldrin	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	endos_1	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	endos_2	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	endos_s	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	endrin	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	endrn_al	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	endrn_kt	05/26/94	ND<0.10	0.10	µg/L	94-04746	
WNW1008C	g_bhc	05/26/94	ND<0.05	0.05	µg/L	94-04746	
WNW1008C	g_chlrdn	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	hept_clr	05/26/94	ND<0.05	0.05	µg/L	94-04746	
WNW1008C	hept_epx	05/26/94	ND<0.05	0.05	µg/L	94-04746	
WNW1008C	meth_xcl	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	pcb_1016	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	pcb_1221	05/26/94	ND<1.00	1.00	µg/L	94-04746	
WNW1008C	pcb_1232	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	pcb_1242	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	pcb_1248	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	pcb_1254	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	pcb_1260	05/26/94	ND<0.50	0.50	µg/L	94-04746	
WNW1008C	toxaphen	05/26/94	ND<1.00	1.00	µg/L	94-04746	

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	a_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04591	UJ
WNNDATR	aldrin	05/17/94	ND<0.05	0.05	µg/L	94-04591	
WNNDATR	b_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04591	
WNNDATR	chlrdane	05/17/94	ND<0.50	0.50	µg/L	94-04591	UJ
WNNDATR	d_24	05/17/94	ND<0.10	0.10	µg/L	94-04595	UJ
WNNDATR	d_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04591	UJ
WNNDATR	ddd_44	05/17/94	ND<0.10	0.10	µg/L	94-04591	
WNNDATR	dde_44	05/17/94	ND<0.10	0.10	µg/L	94-04591	
WNNDATR	ddt_44	05/17/94	ND<0.10	0.10	µg/L	94-04591	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	dieldrin	05/17/94	ND<0.10	0.10	µg/L	94-04591	
WNNDATR	dinoseb	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	disulftn	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	endos_1	05/17/94	ND<0.10	0.10	µg/L	94-04591	
WNNDATR	endos_2	05/17/94	ND<0.10	0.10	µg/L	94-04591	UJ
WNNDATR	endos_s	05/17/94	ND<0.10	0.10	µg/L	94-04591	
WNNDATR	endrin	05/17/94	ND<0.10	0.10	µg/L	94-04591	UJ
WNNDATR	endrn_al	05/17/94	ND<0.20	0.20	µg/L	94-04591	
WNNDATR	g_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04591	
WNNDATR	hept_clr	05/17/94	ND<0.05	0.05	µg/L	94-04591	UJ
WNNDATR	hept_epx	05/17/94	ND<0.05	0.05	µg/L	94-04591	
WNNDATR	meth_par	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	meth_xcl	05/17/94	ND<0.50	0.50	µg/L	94-04591	UJ
WNNDATR	pcb_1016	05/17/94	ND<0.50	0.50	µg/L	94-04591	
WNNDATR	pcb_1221	05/17/94	ND<0.50	0.50	µg/L	94-04591	
WNNDATR	pcb_1232	05/17/94	ND<0.50	0.50	µg/L	94-04591	
WNNDATR	pcb_1242	05/17/94	ND<0.50	0.50	µg/L	94-04591	
WNNDATR	pcb_1248	05/17/94	ND<0.50	0.50	µg/L	94-04591	
WNNDATR	pcb_1254	05/17/94	ND<1.00	1.00	µg/L	94-04591	
WNNDATR	pcb_1260	05/17/94	ND<1.00	1.00	µg/L	94-04591	
WNNDATR	phorate	05/17/94	ND<10.00	10.00	µg/L	94-04589	UJ
WNNDATR	silvex	05/17/94	ND<0.05	0.05	µg/L	94-04595	UJ
WNNDATR	t_245	05/17/94	ND<0.05	0.05	µg/L	94-04595	UJ
WNNDATR	toxaphen	05/17/94	ND<1.00	1.00	µg/L	94-04591	UJ
WNW0905	a_bhc	05/19/94	ND<0.05	0.05	µg/L	94-05677	UJ
WNW0905	a_bhc	05/19/94	ND<0.05	0.05	µg/L	94-04532	UJ
WNW0905	a_chrldn	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	a_chrldn	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	aldrin	05/19/94	ND<0.05	0.05	µg/L	94-05677	
WNW0905	aldrin	05/19/94	ND<0.05	0.05	µg/L	94-04532	
WNW0905	b_bhc	05/19/94	ND<0.05	0.05	µg/L	94-05677	
WNW0905	b_bhc	05/19/94	ND<0.05	0.05	µg/L	94-04532	
WNW0905	d_bhc	05/19/94	ND<0.05	0.05	µg/L	94-05677	
WNW0905	d_bhc	05/19/94	ND<0.05	0.05	µg/L	94-04532	
WNW0905	ddd_44	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	ddd_44	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	dde_44	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	dde_44	05/19/94	ND<0.10	0.10	µg/L	94-04532	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	ddt_44	05/19/94	ND<0.10	0.10	µg/L	94-04532	UJ
WNW0905	ddt_44	05/19/94	ND<0.10	0.10	µg/L	94-05677	UJ
WNW0905	dieldrin	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	dieldrin	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	endos_1	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	endos_1	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	endos_2	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	endos_2	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	endos_s	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	endos_s	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	endrin	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	endrin	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	endrn_al	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	endrn_al	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	endrn_kt	05/19/94	ND<0.10	0.10	µg/L	94-05677	
WNW0905	endrn_kt	05/19/94	ND<0.10	0.10	µg/L	94-04532	
WNW0905	g_bhc	05/19/94	ND<0.05	0.05	µg/L	94-05677	
WNW0905	g_bhc	05/19/94	ND<0.05	0.05	µg/L	94-04532	
WNW0905	g_chlrdn	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	g_chlrdn	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	hept_clr	05/19/94	ND<0.05	0.05	µg/L	94-05677	
WNW0905	hept_clr	05/19/94	ND<0.05	0.05	µg/L	94-04532	
WNW0905	hept_epx	05/19/94	ND<0.05	0.05	µg/L	94-04532	
WNW0905	hept_epx	05/19/94	ND<0.05	0.05	µg/L	94-05677	
WNW0905	meth_xcl	05/19/94	ND<0.50	0.50	µg/L	94-04532	UJ
WNW0905	meth_xcl	05/19/94	ND<0.50	0.50	µg/L	94-05677	UJ
WNW0905	pcb_1016	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	pcb_1016	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	pcb_1221	05/19/94	ND<1.00	1.00	µg/L	94-05677	
WNW0905	pcb_1221	05/19/94	ND<1.00	1.00	µg/L	94-04532	
WNW0905	pcb_1232	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	pcb_1232	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	pcb_1242	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	pcb_1242	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	pcb_1248	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	pcb_1248	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	pcb_1254	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	pcb_1254	05/19/94	ND<0.50	0.50	µg/L	94-05677	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	pcb_1260	05/19/94	ND<0.50	0.50	µg/L	94-04532	
WNW0905	pcb_1260	05/19/94	ND<0.50	0.50	µg/L	94-05677	
WNW0905	toxaphen	05/19/94	ND<1.00	1.00	µg/L	94-04532	UJ
WNW0905	toxaphen	05/19/94	ND<1.00	1.00	µg/L	94-05677	UJ
WNW0907	a_bhc	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	a_chrldn	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	aldrin	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	b_bhc	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	d_bhc	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	ddd_44	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	dde_44	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	ddt_44	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	dieldrin	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	endos_1	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	endos_2	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	endos_s	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	endrin	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	endrn_al	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	endrn_kt	04/28/94	ND<0.10	0.10	µg/L	94-04500	
WNW0907	g_bhc	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	g_chlrdn	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	hept_clr	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	hept_epx	04/28/94	ND<0.05	0.05	µg/L	94-04500	
WNW0907	meth_xcl	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	pcb_1016	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	pcb_1221	04/28/94	ND<1.00	1.00	µg/L	94-04500	
WNW0907	pcb_1232	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	pcb_1242	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	pcb_1248	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	pcb_1254	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	pcb_1260	04/28/94	ND<0.50	0.50	µg/L	94-04500	
WNW0907	toxaphen	04/28/94	ND<1.00	1.00	µg/L	94-04500	UJ
WNW0909	a_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04575	UJ
WNW0909	aldrin	05/17/94	ND<0.05	0.05	µg/L	94-04575	

ND< = Compound Not Detected

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	b_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04575	
WNW0909	chlrdane	05/17/94	ND<0.50	0.50	µg/L	94-04575	UJ
WNW0909	d_24	05/17/94	ND<0.10	0.10	µg/L	94-04579	UJ
WNW0909	d_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04575	UJ
WNW0909	ddd_44	05/17/94	ND<0.10	0.10	µg/L	94-04575	
WNW0909	dde_44	05/17/94	ND<0.10	0.10	µg/L	94-04575	
WNW0909	ddt_44	05/17/94	ND<0.10	0.10	µg/L	94-04575	UJ
WNW0909	dieldrin	05/17/94	ND<0.10	0.10	µg/L	94-04575	
WNW0909	dinoseb	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	disulftn	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	endos_1	05/17/94	ND<0.10	0.10	µg/L	94-04575	
WNW0909	endos_2	05/17/94	ND<0.10	0.10	µg/L	94-04575	UJ
WNW0909	endos_s	05/17/94	ND<0.10	0.10	µg/L	94-04575	
WNW0909	endrin	05/17/94	ND<0.10	0.10	µg/L	94-04575	UJ
WNW0909	endrn_al	05/17/94	ND<0.20	0.20	µg/L	94-04575	
WNW0909	g_bhc	05/17/94	ND<0.05	0.05	µg/L	94-04575	
WNW0909	hept_clr	05/17/94	ND<0.05	0.05	µg/L	94-04575	UJ
WNW0909	hept_epx	05/17/94	ND<0.05	0.05	µg/L	94-04575	
WNW0909	meth_par	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	meth_xcl	05/17/94	ND<0.50	0.50	µg/L	94-04575	UJ
WNW0909	pcb_1016	05/17/94	ND<0.50	0.50	µg/L	94-04575	
WNW0909	pcb_1221	05/17/94	ND<0.50	0.50	µg/L	94-04575	
WNW0909	pcb_1232	05/17/94	ND<0.50	0.50	µg/L	94-04575	
WNW0909	pcb_1242	05/17/94	ND<0.50	0.50	µg/L	94-04575	
WNW0909	pcb_1248	05/17/94	ND<0.50	0.50	µg/L	94-04575	
WNW0909	pcb_1254	05/17/94	ND<1.00	1.00	µg/L	94-04575	
WNW0909	pcb_1260	05/17/94	ND<1.00	1.00	µg/L	94-04575	
WNW0909	phorate	05/17/94	ND<10.00	10.00	µg/L	94-04573	UJ
WNW0909	silvex	05/17/94	ND<0.05	0.05	µg/L	94-04579	UJ
WNW0909	t_245	05/17/94	ND<0.05	0.05	µg/L	94-04579	UJ
WNW0909	toxaphen	05/17/94	ND<1.00	1.00	µg/L	94-04575	UJ

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	a_bhc	04/29/94	ND<0.05	0.05	µg/L	94-04548

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

UPGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	a_chrldn	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	aldrin	04/29/94	ND<0.05	0.05	µg/L	94-04548	
WNW0908	b_bhc	04/29/94	ND<0.05	0.05	µg/L	94-04548	
WNW0908	d_bhc	04/29/94	ND<0.05	0.05	µg/L	94-04548	
WNW0908	ddd_44	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	dde_44	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	ddt_44	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	dieldrin	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	endos_1	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	endos_2	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	endos_s	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	endrin	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	endrn_al	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	endrn_kt	04/29/94	ND<0.10	0.10	µg/L	94-04548	
WNW0908	g_bhc	04/29/94	ND<0.05	0.05	µg/L	94-04548	
WNW0908	g_chlrdn	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	hept_clr	04/29/94	ND<0.05	0.05	µg/L	94-04548	
WNW0908	hept_epx	04/29/94	ND<0.05	0.05	µg/L	94-04548	
WNW0908	meth_xcl	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	pcb_1016	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	pcb_1221	04/29/94	ND<1.00	1.00	µg/L	94-04548	
WNW0908	pcb_1232	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	pcb_1242	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	pcb_1248	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	pcb_1254	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	pcb_1260	04/29/94	ND<0.50	0.50	µg/L	94-04548	
WNW0908	toxaphen	04/29/94	ND<1.00	1.00	µg/L	94-04548	UJ

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WNW0904	a_bhc	05/18/94	ND<0.05	0.05	µg/L	94-04484	UJ
WNW0904	a_chrldn	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	aldrin	05/18/94	ND<0.05	0.05	µg/L	94-04484	
WNW0904	b_bhc	05/18/94	ND<0.05	0.05	µg/L	94-04484	
WNW0904	d_bhc	05/18/94	ND<0.05	0.05	µg/L	94-04484	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0904	ddd_44	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	dde_44	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	ddt_44	05/18/94	ND<0.10	0.10	µg/L	94-04484	UJ
WNW0904	dieldrin	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	endos_1	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	endos_2	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	endos_s	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	endrin	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	endrn_al	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	endrn_kt	05/18/94	ND<0.10	0.10	µg/L	94-04484	
WNW0904	g_bhc	05/18/94	ND<0.05	0.05	µg/L	94-04484	
WNW0904	g_chlrdn	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	hept_clr	05/18/94	ND<0.05	0.05	µg/L	94-04484	
WNW0904	hept_epx	05/18/94	ND<0.05	0.05	µg/L	94-04484	
WNW0904	meth_xcl	05/18/94	ND<0.50	0.50	µg/L	94-04484	UJ
WNW0904	pcb_1016	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	pcb_1221	05/18/94	ND<1.00	1.00	µg/L	94-04484	
WNW0904	pcb_1232	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	pcb_1242	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	pcb_1248	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	pcb_1254	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	pcb_1260	05/18/94	ND<0.50	0.50	µg/L	94-04484	
WNW0904	toxaphen	05/18/94	ND<1.00	1.00	µg/L	94-04484	UJ
WNW0910	a_bhc	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	a_chrldn	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	aldrin	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	b_bhc	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	d_bhc	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	ddd_44	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	dde_44	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	ddt_44	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	dieldrin	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	endos_1	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	endos_2	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	endos_s	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	endrin	05/02/94	ND<0.10	0.10	µg/L	94-04516	

ND< = Compound Not Detected

RFI: 0003008.RM

UNWEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	endrn_al	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	endrn_kt	05/02/94	ND<0.10	0.10	µg/L	94-04516	
WNW0910	g_bhc	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	g_chlrdn	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	hept_clr	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	hept_epx	05/02/94	ND<0.05	0.05	µg/L	94-04516	
WNW0910	meth_xcl	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	pcb_1016	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	pcb_1221	05/02/94	ND<1.00	1.00	µg/L	94-04516	
WNW0910	pcb_1232	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	pcb_1242	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	pcb_1248	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	pcb_1254	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	pcb_1260	05/02/94	ND<0.50	0.50	µg/L	94-04516	
WNW0910	toxaphen	05/02/94	ND<1.00	1.00	µg/L	94-04516	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED AND UNWEATHERED LAVERY TILL

BACKGROUND

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW1008C	a_bhc	11/29/93	ND<0.05	0.05	µg/L	93-12836	UJ
WNW1008C	a_chrldn	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	aldrin	11/29/93	ND<0.05	0.05	µg/L	93-12836	
WNW1008C	b_bhc	11/29/93	ND<0.05	0.05	µg/L	93-12836	
WNW1008C	d_bhc	11/29/93	ND<0.05	0.05	µg/L	93-12836	UJ
WNW1008C	ddd_44	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	dde_44	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	ddt_44	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	dieldrin	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	endos_1	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	endos_2	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	endos_s	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	endrin	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	endrn_kt	11/29/93	ND<0.10	0.10	µg/L	93-12836	
WNW1008C	g_bhc	11/29/93	ND<0.05	0.05	µg/L	93-12836	
WNW1008C	g_chlrdn	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	hept_clr	11/29/93	ND<0.05	0.05	µg/L	93-12836	
WNW1008C	hept_epx	11/29/93	ND<0.05	0.05	µg/L	93-12836	
WNW1008C	meth_xcl	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	pcb_1016	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	pcb_1221	11/29/93	ND<1.00	1.00	µg/L	93-12836	
WNW1008C	pcb_1232	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	pcb_1242	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	pcb_1248	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	pcb_1254	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	pcb_1260	11/29/93	ND<0.50	0.50	µg/L	93-12836	
WNW1008C	toxaphen	11/29/93	ND<1.00	1.00	µg/L	93-12836	UJ

WEATHERED LAVERY TILL

DOWNGRADIENT

WNNDATR	a_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12392	UJ
WNNDATR	aldrin	11/16/93	ND<0.05	0.05	µg/L	93-12392	
WNNDATR	b_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12392	
WNNDATR	chlrdane	11/16/93	ND<0.50	0.50	µg/L	93-12392	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNNDATR	d_24	11/16/93	ND<0.10	0.10	µg/L	93-12397	
WNNDATR	d_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12392	UJ
WNNDATR	ddd_44	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	dde_44	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	ddt_44	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	dieldrin	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	dinoseb	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	disulftn	11/16/93	ND<10.00	10.00	µg/L	93-12391	UJ
WNNDATR	endos_1	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	endos_2	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	endos_s	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	endrin	11/16/93	ND<0.10	0.10	µg/L	93-12392	
WNNDATR	endrn_al	11/16/93	ND<0.20	0.20	µg/L	93-12392	
WNNDATR	g_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12392	UJ
WNNDATR	hept_clr	11/16/93	ND<0.05	0.05	µg/L	93-12392	
WNNDATR	hept_epx	11/16/93	ND<0.05	0.05	µg/L	93-12392	
WNNDATR	meth_par	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	meth_xcl	11/16/93	ND<0.50	0.50	µg/L	93-12392	
WNNDATR	pcb_1016	11/16/93	ND<0.50	0.50	µg/L	93-12392	
WNNDATR	pcb_1221	11/16/93	ND<0.50	0.50	µg/L	93-12392	
WNNDATR	pcb_1232	11/16/93	ND<0.50	0.50	µg/L	93-12392	
WNNDATR	pcb_1242	11/16/93	ND<0.50	0.50	µg/L	93-12392	
WNNDATR	pcb_1248	11/16/93	ND<0.50	0.50	µg/L	93-12392	
WNNDATR	pcb_1254	11/16/93	ND<1.00	1.00	µg/L	93-12392	UJ
WNNDATR	pcb_1260	11/16/93	ND<1.00	1.00	µg/L	93-12392	
WNNDATR	phorate	11/16/93	ND<10.00	10.00	µg/L	93-12391	
WNNDATR	silvex	11/16/93	ND<0.05	0.05	µg/L	93-12397	
WNNDATR	t_245	11/16/93	ND<0.05	0.05	µg/L	93-12397	
WNNDATR	toxaphen	11/16/93	ND<1.00	1.00	µg/L	93-12392	
WNW0905	a_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12763	UJ
WNW0905	a_chrldn	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	aldrin	11/30/93	ND<0.05	0.05	µg/L	93-12763	
WNW0905	b_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12763	
WNW0905	d_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12763	UJ
WNW0905	ddd_44	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	dde_44	11/30/93	ND<0.10	0.10	µg/L	93-12763	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0905	ddt_44	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	dieldrin	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	endos_1	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	endos_2	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	endos_s	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	endrin	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	endrn_kt	11/30/93	ND<0.10	0.10	µg/L	93-12763	
WNW0905	g_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12763	UJ
WNW0905	g_chlrdn	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	hept_clr	11/30/93	ND<0.05	0.05	µg/L	93-12763	
WNW0905	hept_epx	11/30/93	ND<0.05	0.05	µg/L	93-12763	
WNW0905	meth_xcl	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	pcb_1016	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	pcb_1221	11/30/93	ND<1.00	1.00	µg/L	93-12763	
WNW0905	pcb_1232	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	pcb_1242	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	pcb_1248	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	pcb_1254	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	pcb_1260	11/30/93	ND<0.50	0.50	µg/L	93-12763	
WNW0905	toxaphen	11/30/93	ND<1.00	1.00	µg/L	93-12763	UJ
WNW0907	a_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12639	UJ
WNW0907	a_chrldn	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	aldrin	11/30/93	ND<0.05	0.05	µg/L	93-12639	
WNW0907	b_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12639	
WNW0907	d_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12639	UJ
WNW0907	ddd_44	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	dde_44	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	ddt_44	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	dieldrin	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	endos_1	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	endos_2	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	endos_s	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	endrin	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	endrn_kt	11/30/93	ND<0.10	0.10	µg/L	93-12639	
WNW0907	g_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12639	UJ
WNW0907	g_chlrdn	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	hept_clr	11/30/93	ND<0.05	0.05	µg/L	93-12639	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0907	hept_epx	11/30/93	ND<0.05	0.05	µg/L	93-12639	
WNW0907	meth_xcl	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	pcb_1016	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	pcb_1221	11/30/93	ND<1.00	1.00	µg/L	93-12639	
WNW0907	pcb_1232	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	pcb_1242	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	pcb_1248	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	pcb_1254	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	pcb_1260	11/30/93	ND<0.50	0.50	µg/L	93-12639	
WNW0907	toxaphen	11/30/93	ND<1.00	1.00	µg/L	93-12639	UJ
WNW0909	a_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12375	UJ
WNW0909	aldrin	11/16/93	ND<0.05	0.05	µg/L	93-12375	
WNW0909	b_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12375	
WNW0909	chlrdane	11/16/93	ND<0.50	0.50	µg/L	93-12375	
WNW0909	d_24	11/16/93	ND<0.10	0.10	µg/L	93-12380	
WNW0909	d_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12375	UJ
WNW0909	ddd_44	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	dde_44	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	ddt_44	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	dieldrin	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	dinoseb	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	dinoseb	11/16/93	ND<10.00	10.00	µg/L	93-12374	R
WNW0909	disulftn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	disulftn	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	endos_1	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	endos_2	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	endos_s	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	endrin	11/16/93	ND<0.10	0.10	µg/L	93-12375	
WNW0909	endrn_al	11/16/93	ND<0.20	0.20	µg/L	93-12375	
WNW0909	g_bhc	11/16/93	ND<0.05	0.05	µg/L	93-12375	UJ
WNW0909	hept_clr	11/16/93	ND<0.05	0.05	µg/L	93-12375	
WNW0909	hept_epx	11/16/93	ND<0.05	0.05	µg/L	93-12375	
WNW0909	meth_par	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	meth_par	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	meth_xcl	11/16/93	ND<0.50	0.50	µg/L	93-12375	
WNW0909	pcb_1016	11/16/93	ND<0.50	0.50	µg/L	93-12375	
WNW0909	pcb_1221	11/16/93	ND<0.50	0.50	µg/L	93-12375	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0909	pcb_1232	11/16/93	ND<0.50	0.50	µg/L	93-12375	
WNW0909	pcb_1242	11/16/93	ND<0.50	0.50	µg/L	93-12375	
WNW0909	pcb_1248	11/16/93	ND<0.50	0.50	µg/L	93-12375	
WNW0909	pcb_1254	11/16/93	ND<1.00	1.00	µg/L	93-12375	UJ
WNW0909	pcb_1260	11/16/93	ND<1.00	1.00	µg/L	93-12375	
WNW0909	phorate	11/16/93	ND<10.00	10.00	µg/L	93-12374	UJ
WNW0909	phorate	11/16/93	ND<10.00	10.00	µg/L	93-12374	
WNW0909	silvex	11/16/93	ND<0.05	0.05	µg/L	93-12380	
WNW0909	t_245	11/16/93	ND<0.05	0.05	µg/L	93-12380	
WNW0909	toxaphen	11/16/93	ND<1.00	1.00	µg/L	93-12375	

WEATHERED LAVERY TILL

UPGRADIENT

WNW0908	a_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12779	UJ
WNW0908	a_chrldn	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	aldrin	11/30/93	ND<0.05	0.05	µg/L	93-12779	
WNW0908	b_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12779	
WNW0908	d_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12779	UJ
WNW0908	ddd_44	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	dde_44	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	ddt_44	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	dieldrin	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	endos_1	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	endos_2	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	endos_s	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	endrin	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	endrn_kt	11/30/93	ND<0.10	0.10	µg/L	93-12779	
WNW0908	g_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12779	UJ
WNW0908	g_chlrdn	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	hept_clr	11/30/93	ND<0.05	0.05	µg/L	93-12779	
WNW0908	hept_epx	11/30/93	ND<0.05	0.05	µg/L	93-12779	
WNW0908	meth_xcl	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	pcb_1016	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	pcb_1221	11/30/93	ND<1.00	1.00	µg/L	93-12779	
WNW0908	pcb_1232	11/30/93	ND<0.50	0.50	µg/L	93-12779	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0908	pcb_1242	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	pcb_1248	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	pcb_1254	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	pcb_1260	11/30/93	ND<0.50	0.50	µg/L	93-12779	
WNW0908	toxaphen	11/30/93	ND<1.00	1.00	µg/L	93-12779	UJ
WNW0904	a_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12623	UJ
WNW0904	a_chrldn	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	aldrin	11/30/93	ND<0.05	0.05	µg/L	93-12623	
WNW0904	b_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12623	
WNW0904	d_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12623	UJ
WNW0904	ddd_44	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	dde_44	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	ddt_44	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	dieldrin	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	endos_1	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	endos_2	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	endos_s	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	endrin	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	endrn_kt	11/30/93	ND<0.10	0.10	µg/L	93-12623	
WNW0904	g_bhc	11/30/93	ND<0.05	0.05	µg/L	93-12623	
WNW0904	g_chlrdn	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	hept_clr	11/30/93	ND<0.05	0.05	µg/L	93-12623	
WNW0904	hept_epx	11/30/93	ND<0.05	0.05	µg/L	93-12623	
WNW0904	meth_xcl	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	pcb_1016	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	pcb_1221	11/30/93	ND<1.00	1.00	µg/L	93-12623	
WNW0904	pcb_1232	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	pcb_1242	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	pcb_1248	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	pcb_1254	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	pcb_1260	11/30/93	ND<0.50	0.50	µg/L	93-12623	
WNW0904	toxaphen	11/30/93	ND<1.00	1.00	µg/L	93-12623	UJ
WNW0910	a_bhc	12/09/93	ND<0.05	0.05	µg/L	93-12656	UJ
WNW0910	a_chrldn	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	aldrin	12/09/93	ND<0.05	0.05	µg/L	93-12656	
WNW0910	b_bhc	12/09/93	ND<0.05	0.05	µg/L	93-12656	

ND< = Compound Not Detected

RFI: 0003008.RM

WEATHERED LAVERY TILL

DOWNGRADIENT

WELL_ID	PARAMETER	SAMP_DATE	CHR_DATA	REAL_DATA	UNITS	SAMPLE_ID	FLAGS
WNW0910	d_bhc	12/09/93	ND<0.05	0.05	µg/L	93-12656	
WNW0910	ddd_44	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	dde_44	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	ddt_44	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	dieldrin	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	endos_1	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	endos_2	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	endos_s	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	endrin	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	endrn_kt	12/09/93	ND<0.10	0.10	µg/L	93-12656	
WNW0910	g_bhc	12/09/93	ND<0.05	0.05	µg/L	93-12656	UJ
WNW0910	g_chlrdn	12/09/93	ND<0.50	0.50	µg/L	93-12656	UJ
WNW0910	hept_clr	12/09/93	ND<0.05	0.05	µg/L	93-12656	
WNW0910	hept_epx	12/09/93	ND<0.05	0.05	µg/L	93-12656	
WNW0910	meth_xcl	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	pcb_1016	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	pcb_1221	12/09/93	ND<1.00	1.00	µg/L	93-12656	
WNW0910	pcb_1232	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	pcb_1242	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	pcb_1248	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	pcb_1254	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	pcb_1260	12/09/93	ND<0.50	0.50	µg/L	93-12656	
WNW0910	toxaphen	12/09/93	ND<1.00	1.00	µg/L	93-12656	UJ

ND< = Compound Not Detected

RFI: 0003008.RM

Appendix G

Shallow Soil Sampling Analytical Data

THIS PAGE INTENTIONALLY LEFT BLANK

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-14	tca_1122	09/13/93		200.00	RFI-00141	J
SS-14	toluene	09/13/93		300.00	RFI-00141	R
SS-15	toluene	09/16/93		600.00	RFI-00204	R
SS-20	acetone	09/27/93	ND	11.00	RFI-00189	UJ
SS-20	benzene	09/27/93		4.30	RFI-00189	J
SS-20	br_meth	09/27/93	ND	11.40	RFI-00189	
SS-20	brdcmeth	09/27/93	ND	5.70	RFI-00189	
SS-20	brform	09/27/93	ND	5.70	RFI-00189	
SS-20	c_13_dcp	09/27/93	ND	5.70	RFI-00189	
SS-20	ccl4	09/27/93	ND	5.70	RFI-00189	
SS-20	cl_benz	09/27/93	ND	5.70	RFI-00189	
SS-20	cl_eth	09/27/93	ND	11.40	RFI-00189	
SS-20	cl_form	09/27/93		2.80	RFI-00189	UJ
SS-20	cl_meth	09/27/93	ND	11.40	RFI-00189	
SS-20	cs2	09/27/93		4.80	RFI-00189	J
SS-20	dbc_meth	09/27/93	ND	5.70	RFI-00189	
SS-20	dca_11	09/27/93	ND	5.70	RFI-00189	
SS-20	dca_12	09/27/93	ND	5.70	RFI-00189	
SS-20	dce_11	09/27/93	ND	5.70	RFI-00189	
SS-20	dce_12_t	09/27/93	ND	5.70	RFI-00189	
SS-20	dcp_12	09/27/93	ND	5.70	RFI-00189	
SS-20	eth_benz	09/27/93	ND	5.70	RFI-00189	
SS-20	hexnone2	09/27/93	ND	11.00	RFI-00189	
SS-20	mek	09/27/93	ND	11.40	RFI-00189	
SS-20	mene_cl	09/27/93		7.50	RFI-00189	UJ
SS-20	mibk	09/27/93	ND	11.40	RFI-00189	
SS-20	styrene	09/27/93	ND	5.70	RFI-00189	
SS-20	t_13_dcp	09/27/93	ND	5.70	RFI-00189	
SS-20	tca_111	09/27/93	ND	5.70	RFI-00189	
SS-20	tca_112	09/27/93	ND	5.70	RFI-00189	
SS-20	tca_1122	09/27/93	ND	5.70	RFI-00189	
SS-20	tetcleth	09/27/93	ND	5.70	RFI-00189	
SS-20	toluene	09/27/93	ND	5.70	RFI-00189	
SS-20	tricleth	09/27/93		2.40	RFI-00189	J
SS-20	vnyl_cl	09/27/93	ND	11.40	RFI-00189	
SS-20	xylene	09/27/93	ND	5.70	RFI-00189	
SS-21	acetone	09/27/93	ND	11.00	RFI-00190	UJ
SS-21	benzene	09/27/93	ND	5.60	RFI-00190	
SS-21	br_meth	09/27/93	ND	11.30	RFI-00190	
SS-21	brdcmeth	09/27/93	ND	5.60	RFI-00190	
SS-21	brform	09/27/93	ND	5.60	RFI-00190	
SS-21	c_13_dcp	09/27/93	ND	5.60	RFI-00190	

ND = Compound Not Detected

RFI: 0003008.RM

NDA Surface Soil Volatiles Data (in $\mu g/kg$)

LOCATION	PARAMETER	SAMP_DATE	RESULT		SAMPLE_ID	FLAGS
SS-21	ccl4	09/27/93	ND	5.60	RFI-00190	
SS-21	cl_benz	09/27/93	ND	5.60	RFI-00190	
SS-21	cl_eth	09/27/93	ND	11.30	RFI-00190	
SS-21	cl_form	09/27/93	ND	5.60	RFI-00190	
SS-21	cl_meth	09/27/93	ND	11.30	RFI-00190	
SS-21	cs2	09/27/93		6.70	RFI-00190	
SS-21	dbc_meth	09/27/93	ND	5.60	RFI-00190	
SS-21	dca_11	09/27/93	ND	5.60	RFI-00190	
SS-21	dca_12	09/27/93	ND	5.60	RFI-00190	
SS-21	dce_11	09/27/93	ND	5.60	RFI-00190	
SS-21	dce_12_t	09/27/93	ND	5.60	RFI-00190	
SS-21	dcp_12	09/27/93	ND	5.60	RFI-00190	
SS-21	eth_benz	09/27/93	ND	5.60	RFI-00190	
SS-21	hexnone2	09/27/93	ND	11.00	RFI-00190	
SS-21	mek	09/27/93	ND	11.30	RFI-00190	
SS-21	mene_cl	09/27/93		7.80	RFI-00190	UJ
SS-21	mibk	09/27/93	ND	11.30	RFI-00190	
SS-21	styrene	09/27/93	ND	5.60	RFI-00190	
SS-21	t_13_dcp	09/27/93	ND	5.60	RFI-00190	
SS-21	tca_111	09/27/93	ND	5.60	RFI-00190	
SS-21	tca_112	09/27/93	ND	5.60	RFI-00190	
SS-21	tca_1122	09/27/93	ND	5.60	RFI-00190	
SS-21	tetcleth	09/27/93	ND	5.60	RFI-00190	
SS-21	toluene	09/27/93	ND	5.60	RFI-00190	
SS-21	tricleth	09/27/93	ND	5.60	RFI-00190	
SS-21	vnyl_cl	09/27/93	ND	11.30	RFI-00190	
SS-21	xylene	09/27/93	ND	5.60	RFI-00190	
SS-21R	toluene	12/13/93		1000.00	RFI-00043	R

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-14	acnphthe	09/13/93	ND	373.80	RFI-00141	
SS-14	acnphthy	09/13/93	ND	373.80	RFI-00141	
SS-14	anthracn	09/13/93	ND	373.80	RFI-00141	
SS-14	bis2ceth	09/13/93	ND	373.80	RFI-00141	
SS-14	bis2cexy	09/13/93	ND	373.80	RFI-00141	
SS-14	bis2clis	09/13/93	ND	373.80	RFI-00141	
SS-14	bis2ehex	09/13/93	ND	373.80	RFI-00141	
SS-14	bnz_a_an	09/13/93	ND	373.80	RFI-00141	
SS-14	bnz_a_py	09/13/93	ND	373.80	RFI-00141	
SS-14	bnz_b_fl	09/13/93	ND	373.80	RFI-00141	
SS-14	bnz_k_fl	09/13/93	ND	373.80	RFI-00141	
SS-14	bnzghipr	09/13/93	ND	373.80	RFI-00141	
SS-14	brppeth4	09/13/93	ND	373.80	RFI-00141	
SS-14	butbnzph	09/13/93	ND	373.80	RFI-00141	
SS-14	carbazol	09/13/93	ND	373.80	RFI-00141	
SS-14	chppeth4	09/13/93	ND	373.80	RFI-00141	UJ
SS-14	chrysene	09/13/93	ND	373.80	RFI-00141	
SS-14	clnapht2	09/13/93	ND	373.80	RFI-00141	
SS-14	clphen_2	09/13/93	ND	373.80	RFI-00141	
SS-14	dbahanth	09/13/93	ND	373.80	RFI-00141	
SS-14	dcb_33	09/13/93	ND	747.70	RFI-00141	UJ
SS-14	dibnzfur	09/13/93	ND	373.80	RFI-00141	
SS-14	diclph24	09/13/93	ND	373.80	RFI-00141	
SS-14	diethyph	09/13/93	ND	373.80	RFI-00141	
SS-14	dimthp24	09/13/93	ND	373.80	RFI-00141	
SS-14	dimthyph	09/13/93	ND	373.80	RFI-00141	
SS-14	dinbutph	09/13/93	ND	373.80	RFI-00141	
SS-14	dinoctph	09/13/93	ND	373.80	RFI-00141	
SS-14	dintrp24	09/13/93	ND	900.00	RFI-00141	UJ
SS-14	dintrt24	09/13/93	ND	373.80	RFI-00141	
SS-14	dintrt26	09/13/93	ND	373.80	RFI-00141	
SS-14	dntrcr46	09/13/93	ND	900.00	RFI-00141	
SS-14	flranthn	09/13/93	ND	373.80	RFI-00141	
SS-14	fluorene	09/13/93	ND	373.80	RFI-00141	UJ
SS-14	hexclbnz	09/13/93	ND	373.80	RFI-00141	
SS-14	hexclbut	09/13/93	ND	373.80	RFI-00141	
SS-14	hexcleth	09/13/93	ND	373.80	RFI-00141	
SS-14	hexclpen	09/13/93	ND	373.80	RFI-00141	
SS-14	indnpyre	09/13/93	ND	373.80	RFI-00141	
SS-14	isophron	09/13/93	ND	373.80	RFI-00141	
SS-14	m_dclbnz	09/13/93	ND	373.80	RFI-00141	
SS-14	m_ntranl	09/13/93	ND	900.00	RFI-00141	UJ

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-14	mthynph2	09/13/93	ND	373.80	RFI-00141	
SS-14	naphthal	09/13/93	ND	373.80	RFI-00141	
SS-14	nntrphny	09/13/93	ND	373.80	RFI-00141	
SS-14	nntrprpy	09/13/93	ND	373.80	RFI-00141	
SS-14	ntrobenz	09/13/93	ND	373.80	RFI-00141	
SS-14	o_cresol	09/13/93	ND	373.80	RFI-00141	
SS-14	o_dclbnz	09/13/93	ND	373.80	RFI-00141	
SS-14	o_ntranl	09/13/93	ND	900.00	RFI-00141	
SS-14	o_ntrphn	09/13/93	ND	373.80	RFI-00141	
SS-14	p_cresol	09/13/93	ND	373.80	RFI-00141	
SS-14	p_dclbnz	09/13/93	ND	373.80	RFI-00141	
SS-14	p_ntranl	09/13/93	ND	900.00	RFI-00141	UJ
SS-14	p_ntrphn	09/13/93	ND	900.00	RFI-00141	
SS-14	pclranil	09/13/93	ND	373.80	RFI-00141	
SS-14	pclrmcrs	09/13/93	ND	373.80	RFI-00141	
SS-14	phenol	09/13/93	ND	373.80	RFI-00141	
SS-14	phnanthr	09/13/93	ND	373.80	RFI-00141	
SS-14	pntclphn	09/13/93	ND	900.00	RFI-00141	
SS-14	pyrene	09/13/93	ND	373.80	RFI-00141	
SS-14	tcb_124	09/13/93	ND	373.80	RFI-00141	
SS-14	tclph245	09/13/93	ND	900.00	RFI-00141	
SS-14	tclph246	09/13/93	ND	373.80	RFI-00141	
SS-15	acnphthe	09/16/93	ND	412.10	RFI-00204	
SS-15	acnphthy	09/16/93	ND	412.10	RFI-00204	
SS-15	anthracn	09/16/93	ND	412.10	RFI-00204	
SS-15	bis2ceth	09/16/93	ND	412.10	RFI-00204	
SS-15	bis2cexy	09/16/93	ND	412.10	RFI-00204	
SS-15	bis2clis	09/16/93	ND	412.10	RFI-00204	
SS-15	bis2ehex	09/16/93	ND	412.10	RFI-00204	
SS-15	bnz_a_an	09/16/93	ND	412.10	RFI-00204	
SS-15	bnz_a_py	09/16/93	ND	412.10	RFI-00204	
SS-15	bnz_b_fl	09/16/93	ND	412.10	RFI-00204	
SS-15	bnz_k_fl	09/16/93	ND	412.10	RFI-00204	
SS-15	bnzghipr	09/16/93	ND	412.10	RFI-00204	UJ
SS-15	brppeth4	09/16/93	ND	412.10	RFI-00204	
SS-15	butbnzph	09/16/93	ND	412.10	RFI-00204	
SS-15	carbazol	09/16/93	ND	412.10	RFI-00204	UJ
SS-15	chppeth4	09/16/93	ND	412.10	RFI-00204	
SS-15	chrysene	09/16/93	ND	412.10	RFI-00204	
SS-15	clnapht2	09/16/93	ND	412.10	RFI-00204	
SS-15	clphen_2	09/16/93	ND	412.10	RFI-00204	

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-15	dbahanth	09/16/93	ND	412.10	RFI-00204	
SS-15	dcb_33	09/16/93	ND	412.10	RFI-00204	
SS-15	dibnzfur	09/16/93	ND	412.10	RFI-00204	
SS-15	diclph24	09/16/93	ND	412.10	RFI-00204	
SS-15	diethyph	09/16/93	ND	412.10	RFI-00204	
SS-15	dimthp24	09/16/93	ND	412.10	RFI-00204	
SS-15	dimthyph	09/16/93	ND	412.10	RFI-00204	
SS-15	dinbutph	09/16/93	ND	412.10	RFI-00204	
SS-15	dinoctph	09/16/93	ND	412.10	RFI-00204	
SS-15	dintrp24	09/16/93	ND	1041.00	RFI-00204	UJ
SS-15	dintrt24	09/16/93	ND	412.10	RFI-00204	
SS-15	dintrt26	09/16/93	ND	412.10	RFI-00204	
SS-15	dntrcr46	09/16/93	ND	1041.00	RFI-00204	
SS-15	flranthn	09/16/93	ND	412.10	RFI-00204	
SS-15	fluorene	09/16/93	ND	412.10	RFI-00204	
SS-15	hexclbnz	09/16/93	ND	412.10	RFI-00204	
SS-15	hexclbut	09/16/93	ND	412.10	RFI-00204	
SS-15	hexcleth	09/16/93	ND	412.10	RFI-00204	
SS-15	hexclpen	09/16/93	ND	412.10	RFI-00204	
SS-15	indnpyre	09/16/93	ND	412.10	RFI-00204	
SS-15	isophron	09/16/93	ND	412.10	RFI-00204	
SS-15	m_dclbnz	09/16/93	ND	412.10	RFI-00204	
SS-15	m_ntranl	09/16/93	ND	1041.00	RFI-00204	UJ
SS-15	mthynph2	09/16/93	ND	412.10	RFI-00204	
SS-15	naphthal	09/16/93	ND	412.10	RFI-00204	
SS-15	nntrphny	09/16/93	ND	412.10	RFI-00204	
SS-15	nntrprpy	09/16/93	ND	412.10	RFI-00204	
SS-15	ntrobenz	09/16/93	ND	412.10	RFI-00204	
SS-15	o_cresol	09/16/93	ND	412.10	RFI-00204	
SS-15	o_dclbnz	09/16/93	ND	412.10	RFI-00204	
SS-15	o_ntranl	09/16/93	ND	1041.00	RFI-00204	
SS-15	o_ntrphn	09/16/93	ND	412.10	RFI-00204	
SS-15	p_cresol	09/16/93	ND	412.10	RFI-00204	
SS-15	p_dclbnz	09/16/93	ND	412.10	RFI-00204	
SS-15	p_ntranl	09/16/93	ND	1041.00	RFI-00204	
SS-15	p_ntrphn	09/16/93	ND	1041.00	RFI-00204	UJ
SS-15	pclranil	09/16/93	ND	412.10	RFI-00204	UJ
SS-15	pclrmcrs	09/16/93	ND	412.10	RFI-00204	
SS-15	phenol	09/16/93	ND	412.10	RFI-00204	
SS-15	phnanthr	09/16/93	ND	412.10	RFI-00204	
SS-15	pntclphn	09/16/93	ND	1041.00	RFI-00204	
SS-15	pyrene	09/16/93	ND	412.10	RFI-00204	

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-15	tcb_124	09/16/93	ND	412.10	RFI-00204	
SS-15	tclph245	09/16/93	ND	412.10	RFI-00204	
SS-15	tclph246	09/16/93	ND	412.10	RFI-00204	
SS-20R	acnphthe	12/14/93	ND	447.00	RFI-00051	
SS-20R	acnphthy	12/14/93	ND	447.00	RFI-00051	
SS-20R	anthracn	12/14/93	ND	447.00	RFI-00051	
SS-20R	bis2ceth	12/14/93	ND	447.00	RFI-00051	UJ
SS-20R	bis2cexy	12/14/93	ND	447.00	RFI-00051	
SS-20R	bis2clis	12/14/93	ND	447.00	RFI-00051	UJ
SS-20R	bis2ehex	12/14/93	ND	447.00	RFI-00051	
SS-20R	bnz_a_an	12/14/93	ND	447.00	RFI-00051	
SS-20R	bnz_a_py	12/14/93	ND	447.00	RFI-00051	
SS-20R	bnz_b_fl	12/14/93	ND	447.00	RFI-00051	
SS-20R	bnz_k_fl	12/14/93	ND	447.00	RFI-00051	
SS-20R	bnzghipr	12/14/93	ND	447.00	RFI-00051	
SS-20R	brppeth4	12/14/93	ND	447.00	RFI-00051	
SS-20R	butbnzph	12/14/93	ND	447.00	RFI-00051	
SS-20R	carbazol	12/14/93	ND	447.00	RFI-00051	
SS-20R	chppeth4	12/14/93	ND	447.00	RFI-00051	
SS-20R	chrysene	12/14/93	ND	447.00	RFI-00051	
SS-20R	clnapht2	12/14/93	ND	447.00	RFI-00051	
SS-20R	clphen_2	12/14/93	ND	447.00	RFI-00051	
SS-20R	dbahanth	12/14/93	ND	447.00	RFI-00051	
SS-20R	dcb_33	12/14/93	ND	447.00	RFI-00051	
SS-20R	dibnzfur	12/14/93	ND	447.00	RFI-00051	
SS-20R	diclph24	12/14/93	ND	447.00	RFI-00051	
SS-20R	diethyph	12/14/93	ND	447.00	RFI-00051	
SS-20R	dimthp24	12/14/93	ND	447.00	RFI-00051	
SS-20R	dimthyph	12/14/93	ND	447.00	RFI-00051	
SS-20R	dinbutph	12/14/93	ND	447.00	RFI-00051	
SS-20R	dinoctph	12/14/93	ND	447.00	RFI-00051	
SS-20R	dintrp24	12/14/93	ND	1129.00	RFI-00051	
SS-20R	dintrt24	12/14/93	ND	447.00	RFI-00051	
SS-20R	dintrt26	12/14/93	ND	447.00	RFI-00051	
SS-20R	dntrcr46	12/14/93	ND	1129.00	RFI-00051	
SS-20R	flranthn	12/14/93	ND	447.00	RFI-00051	
SS-20R	fluorene	12/14/93	ND	447.00	RFI-00051	
SS-20R	hexclbnz	12/14/93	ND	447.00	RFI-00051	
SS-20R	hexclbut	12/14/93	ND	447.00	RFI-00051	
SS-20R	hexcleth	12/14/93	ND	447.00	RFI-00051	

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-20R	hexclpen	12/14/93	ND	447.00	RFI-00051	
SS-20R	indnpyre	12/14/93	ND	447.00	RFI-00051	
SS-20R	isophron	12/14/93	ND	447.00	RFI-00051	
SS-20R	m_dclbnz	12/14/93	ND	447.00	RFI-00051	
SS-20R	m_ntranl	12/14/93	ND	1129.00	RFI-00051	
SS-20R	mthynph2	12/14/93	ND	447.00	RFI-00051	
SS-20R	naphthal	12/14/93	ND	447.00	RFI-00051	
SS-20R	nntrphny	12/14/93	ND	447.00	RFI-00051	
SS-20R	nntrprpy	12/14/93	ND	447.00	RFI-00051	UJ
SS-20R	ntrobenz	12/14/93	ND	447.00	RFI-00051	UJ
SS-20R	o_cresol	12/14/93	ND	447.00	RFI-00051	
SS-20R	o_dclbnz	12/14/93	ND	447.00	RFI-00051	
SS-20R	o_ntranl	12/14/93	ND	1129.00	RFI-00051	UJ
SS-20R	o_ntrphn	12/14/93	ND	447.00	RFI-00051	
SS-20R	octconte	12/14/93		400.00	RFI-00051	J
SS-20R	p_cresol	12/14/93	ND	447.00	RFI-00051	
SS-20R	p_dclbnz	12/14/93	ND	447.00	RFI-00051	
SS-20R	p_ntranl	12/14/93	ND	1129.00	RFI-00051	UJ
SS-20R	p_ntrphn	12/14/93	ND	1129.00	RFI-00051	
SS-20R	pclranil	12/14/93	ND	447.00	RFI-00051	UJ
SS-20R	pclrmcrs	12/14/93	ND	447.00	RFI-00051	
SS-20R	phenol	12/14/93	ND	447.00	RFI-00051	
SS-20R	phnanthr	12/14/93	ND	447.00	RFI-00051	
SS-20R	pntclphn	12/14/93	ND	1129.00	RFI-00051	
SS-20R	pyrene	12/14/93	ND	447.00	RFI-00051	
SS-20R	tcb_124	12/14/93	ND	447.00	RFI-00051	
SS-20R	tclph245	12/14/93	ND	447.00	RFI-00051	
SS-20R	tclph246	12/14/93	ND	447.00	RFI-00051	
SS-21R	acnphthe	12/13/93	ND	377.30	RFI-00043	
SS-21R	acnphthy	12/13/93	ND	377.30	RFI-00043	
SS-21R	anthracn	12/13/93	ND	377.30	RFI-00043	
SS-21R	bis2ceth	12/13/93	ND	377.30	RFI-00043	UJ
SS-21R	bis2cexy	12/13/93	ND	377.30	RFI-00043	
SS-21R	bis2clis	12/13/93	ND	377.30	RFI-00043	UJ
SS-21R	bis2ehex	12/13/93	ND	377.30	RFI-00043	
SS-21R	bnz_a_an	12/13/93	ND	377.30	RFI-00043	
SS-21R	bnz_a_py	12/13/93	ND	377.30	RFI-00043	
SS-21R	bnz_b_fl	12/13/93	ND	377.30	RFI-00043	
SS-21R	bnz_k_fl	12/13/93	ND	377.30	RFI-00043	
SS-21R	bnzghipr	12/13/93	ND	377.30	RFI-00043	
SS-21R	brppeth4	12/13/93	ND	377.30	RFI-00043	

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-21R	butbnzph	12/13/93	ND	377.30	RFI-00043	
SS-21R	carbazol	12/13/93	ND	377.30	RFI-00043	
SS-21R	chppeth4	12/13/93	ND	377.30	RFI-00043	
SS-21R	chrysene	12/13/93	ND	377.30	RFI-00043	
SS-21R	clnapht2	12/13/93	ND	377.30	RFI-00043	
SS-21R	clphen_2	12/13/93	ND	377.30	RFI-00043	
SS-21R	dbahanth	12/13/93	ND	377.30	RFI-00043	
SS-21R	dcb_33	12/13/93	ND	377.30	RFI-00043	UJ
SS-21R	dibnzfur	12/13/93	ND	377.30	RFI-00043	
SS-21R	diclph24	12/13/93	ND	377.30	RFI-00043	
SS-21R	diethyph	12/13/93	ND	377.30	RFI-00043	
SS-21R	dimthp24	12/13/93	ND	377.30	RFI-00043	
SS-21R	dimthyph	12/13/93	ND	377.30	RFI-00043	
SS-21R	dinbutph	12/13/93		350.00	RFI-00043	U
SS-21R	dinoctph	12/13/93	ND	377.30	RFI-00043	
SS-21R	dintrp24	12/13/93	ND	952.90	RFI-00043	UJ
SS-21R	dintrt24	12/13/93	ND	377.30	RFI-00043	
SS-21R	dintrt26	12/13/93	ND	377.30	RFI-00043	
SS-21R	dntrcr46	12/13/93	ND	952.90	RFI-00043	
SS-21R	flranthn	12/13/93	ND	377.30	RFI-00043	
SS-21R	fluorene	12/13/93	ND	377.30	RFI-00043	
SS-21R	hexclbnz	12/13/93	ND	377.30	RFI-00043	
SS-21R	hexclbut	12/13/93	ND	377.30	RFI-00043	
SS-21R	hexcleth	12/13/93	ND	377.30	RFI-00043	
SS-21R	hexclpen	12/13/93	ND	377.30	RFI-00043	
SS-21R	indnpyre	12/13/93	ND	377.30	RFI-00043	
SS-21R	isophron	12/13/93	ND	377.30	RFI-00043	
SS-21R	m_dclbnz	12/13/93	ND	377.30	RFI-00043	
SS-21R	m_ntranl	12/13/93	ND	952.90	RFI-00043	
SS-21R	mthynph2	12/13/93	ND	377.30	RFI-00043	
SS-21R	naphthal	12/13/93	ND	377.30	RFI-00043	
SS-21R	nntrphny	12/13/93	ND	377.30	RFI-00043	
SS-21R	nntrprpy	12/13/93	ND	377.30	RFI-00043	UJ
SS-21R	ntrobenz	12/13/93	ND	377.30	RFI-00043	
SS-21R	o_cresol	12/13/93	ND	377.30	RFI-00043	
SS-21R	o_dclbnz	12/13/93	ND	377.30	RFI-00043	
SS-21R	o_ntranl	12/13/93	ND	952.90	RFI-00043	
SS-21R	o_ntrphn	12/13/93	ND	377.30	RFI-00043	
SS-21R	p_cresol	12/13/93	ND	377.30	RFI-00043	
SS-21R	p_dclbnz	12/13/93	ND	377.30	RFI-00043	
SS-21R	p_ntranl	12/13/93	ND	952.90	RFI-00043	
SS-21R	p_ntrphn	12/13/93	ND	952.90	RFI-00043	UJ

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-21R	pclranil	12/13/93	ND	377.30	RFI-00043	UJ
SS-21R	pclrmcrs	12/13/93	ND	377.30	RFI-00043	
SS-21R	phenol	12/13/93	ND	377.30	RFI-00043	
SS-21R	phnanthr	12/13/93	ND	377.30	RFI-00043	
SS-21R	pntclphn	12/13/93	ND	952.90	RFI-00043	
SS-21R	pyrene	12/13/93	ND	377.30	RFI-00043	
SS-21R	tcb_124	12/13/93	ND	377.30	RFI-00043	
SS-21R	tclph245	12/13/93	ND	377.30	RFI-00043	
SS-21R	tclph246	12/13/93	ND	377.30	RFI-00043	

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-14	ag_t	09/13/93	ND	339.00	RFI-00054	
SS-14	al_t	09/13/93		12100000.00	RFI-00054	J
SS-14	as_t	09/13/93		4200.00	RFI-00054	
SS-14	ba_t	09/13/93		73700.00	RFI-00054	
SS-14	be_t	09/13/93		511.00	RFI-00054	
SS-14	ca_t	09/13/93		53300000.00	RFI-00054	J
SS-14	cd_t	09/13/93	ND	226.00	RFI-00054	
SS-14	co_t	09/13/93		8700.00	RFI-00054	
SS-14	cr_t	09/13/93		15800.00	RFI-00054	
SS-14	cu_t	09/13/93		15400.00	RFI-00054	
SS-14	fe_t	09/13/93		20500000.00	RFI-00054	J
SS-14	hg_t	09/13/93		22.40	RFI-00054	
SS-14	k_t	09/13/93		2380000.00	RFI-00054	
SS-14	mg_t	09/13/93		14400000.00	RFI-00054	J
SS-14	mn_t	09/13/93		418000.00	RFI-00054	J
SS-14	na_t	09/13/93		133000.00	RFI-00054	
SS-14	ni_t	09/13/93		21100.00	RFI-00054	
SS-14	pb_t	09/13/93		15100.00	RFI-00054	
SS-14	sb_t	09/13/93		1420.00	RFI-00054	J
SS-14	se_t	09/13/93	ND	112.00	RFI-00054	
SS-14	tl_t	09/13/93	ND	112.00	RFI-00054	
SS-14	v_t	09/13/93		19100.00	RFI-00054	
SS-14	zn_t	09/13/93		51600.00	RFI-00054	J
SS-15	ag_t	09/16/93	ND	373.00	RFI-00062	
SS-15	al_t	09/16/93		10900000.00	RFI-00062	
SS-15	as_t	09/16/93		3270.00	RFI-00062	J
SS-15	ba_t	09/16/93		65800.00	RFI-00062	
SS-15	be_t	09/16/93		382.00	RFI-00062	
SS-15	ca_t	09/16/93		2420000.00	RFI-00062	
SS-15	cd_t	09/16/93	ND	249.00	RFI-00062	
SS-15	co_t	09/16/93		7210.00	RFI-00062	
SS-15	cr_t	09/16/93		11400.00	RFI-00062	
SS-15	cu_t	09/16/93		12800.00	RFI-00062	
SS-15	fe_t	09/16/93		20000000.00	RFI-00062	
SS-15	hg_t	09/16/93		54.00	RFI-00062	
SS-15	k_t	09/16/93		1120000.00	RFI-00062	
SS-15	mg_t	09/16/93		2370000.00	RFI-00062	J
SS-15	mn_t	09/16/93		467000.00	RFI-00062	
SS-15	na_t	09/16/93		38100.00	RFI-00062	
SS-15	ni_t	09/16/93		14600.00	RFI-00062	
SS-15	pb_t	09/16/93		19700.00	RFI-00062	
SS-15	sb_t	09/16/93		2420.00	RFI-00062	J
SS-15	se_t	09/16/93	ND	120.00	RFI-00062	UJ
SS-15	tl_t	09/16/93	ND	120.00	RFI-00062	UJ
SS-15	v_t	09/16/93		17700.00	RFI-00062	
SS-15	zn_t	09/16/93		53800.00	RFI-00062	

LOCATION	PARAMETER	SAMP_DATE	RESULT		SAMPLE_ID	FLAGS
SS-18	ag_t	09/20/93	ND	319.00	RFI-00065	
SS-18	al_t	09/20/93		10600000.00	RFI-00065	
SS-18	as_t	09/20/93		3030.00	RFI-00065	J
SS-18	ba_t	09/20/93		73800.00	RFI-00065	
SS-18	be_t	09/20/93		497.00	RFI-00065	
SS-18	ca_t	09/20/93		3620000.00	RFI-00065	
SS-18	cd_t	09/20/93	ND	213.00	RFI-00065	
SS-18	co_t	09/20/93		9710.00	RFI-00065	
SS-18	cr_t	09/20/93		17000.00	RFI-00065	
SS-18	cu_t	09/20/93		12700.00	RFI-00065	
SS-18	fe_t	09/20/93		25800000.00	RFI-00065	
SS-18	hg_t	09/20/93		29.90	RFI-00065	
SS-18	k_t	09/20/93		970000.00	RFI-00065	
SS-18	mg_t	09/20/93		3370000.00	RFI-00065	
SS-18	mn_t	09/20/93		421000.00	RFI-00065	J
SS-18	na_t	09/20/93		54300.00	RFI-00065	
SS-18	ni_t	09/20/93		18100.00	RFI-00065	
SS-18	pb_t	09/20/93		15400.00	RFI-00065	
SS-18	sb_t	09/20/93		2080.00	RFI-00065	J
SS-18	se_t	09/20/93	ND	100.00	RFI-00065	UJ
SS-18	tl_t	09/20/93	ND	100.00	RFI-00065	
SS-18	v_t	09/20/93		16400.00	RFI-00065	
SS-18	zn_t	09/20/93		59300.00	RFI-00065	
SS-20	ag_t	09/27/93	ND	334.00	RFI-00278	
SS-20	al_t	09/27/93		9570000.00	RFI-00278	
SS-20	as_t	09/27/93		1290.00	RFI-00278	
SS-20	ba_t	09/27/93		48300.00	RFI-00278	
SS-20	be_t	09/27/93		201.00	RFI-00278	
SS-20	ca_t	09/27/93		5480000.00	RFI-00278	
SS-20	cd_t	09/27/93	ND	222.00	RFI-00278	
SS-20	co_t	09/27/93		3390.00	RFI-00278	
SS-20	cr_t	09/27/93		10200.00	RFI-00278	
SS-20	cu_t	09/27/93		9880.00	RFI-00278	
SS-20	fe_t	09/27/93		13200000.00	RFI-00278	
SS-20	hg_t	09/27/93		25.00	RFI-00278	
SS-20	k_t	09/27/93		1210000.00	RFI-00278	
SS-20	mg_t	09/27/93		3120000.00	RFI-00278	
SS-20	mn_t	09/27/93		206000.00	RFI-00278	J
SS-20	na_t	09/27/93		51200.00	RFI-00278	
SS-20	ni_t	09/27/93		9970.00	RFI-00278	
SS-20	pb_t	09/27/93		42400.00	RFI-00278	J
SS-20	sb_t	09/27/93	ND	1330.00	RFI-00278	UJ
SS-20	se_t	09/27/93	ND	107.00	RFI-00278	

ND = Compound Not Detected

RFI: 0003008.RM

NDA Surface Soil Metals Data (in μg/kg)

LOCATION	PARAMETER	SAMP_DATE	RESULT		SAMPLE_ID	FLAGS
SS-20	tl_t	09/27/93	ND	107.00	RFI-00278	UJ
SS-20	v_t	09/27/93		18900.00	RFI-00278	
SS-20	zn_t	09/27/93		49800.00	RFI-00278	J
SS-21	ag_t	09/27/93	ND	348.00	RFI-00279	
SS-21	al_t	09/27/93		7160000.00	RFI-00279	
SS-21	as_t	09/27/93		4410.00	RFI-00279	
SS-21	ba_t	09/27/93		44700.00	RFI-00279	
SS-21	be_t	09/27/93		268.00	RFI-00279	
SS-21	ca_t	09/27/93		8960000.00	RFI-00279	
SS-21	cd_t	09/27/93	ND	232.00	RFI-00279	
SS-21	co_t	09/27/93		4970.00	RFI-00279	
SS-21	cr_t	09/27/93		8520.00	RFI-00279	
SS-21	cu_t	09/27/93		13800.00	RFI-00279	
SS-21	fe_t	09/27/93		14000000.00	RFI-00279	
SS-21	hg_t	09/27/93	ND	16.90	RFI-00279	
SS-21	k_t	09/27/93		1150000.00	RFI-00279	
SS-21	mg_t	09/27/93		3670000.00	RFI-00279	
SS-21	mn_t	09/27/93		324000.00	RFI-00279	J
SS-21	na_t	09/27/93		47000.00	RFI-00279	
SS-21	ni_t	09/27/93		13000.00	RFI-00279	
SS-21	pb_t	09/27/93		10900.00	RFI-00279	J
SS-21	sb_t	09/27/93	ND	1390.00	RFI-00279	UJ
SS-21	se_t	09/27/93	ND	114.00	RFI-00279	
SS-21	tl_t	09/27/93	ND	114.00	RFI-00279	UJ
SS-21	v_t	09/27/93		26200.00	RFI-00279	
SS-21	zn_t	09/27/93		57300.00	RFI-00279	J

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
SS-14	a_bhc	09/13/93	ND	1.44	RFI-00233	
SS-14	a_chrldn	09/13/93	ND	1.44	RFI-00233	
SS-14	aldrin	09/13/93	ND	1.44	RFI-00233	
SS-14	b_bhc	09/13/93	ND	1.44	RFI-00233	
SS-14	d_bhc	09/13/93	ND	1.44	RFI-00233	
SS-14	ddd_44	09/13/93	ND	2.88	RFI-00233	UJ
SS-14	dde_44	09/13/93	ND	2.88	RFI-00233	
SS-14	ddt_44	09/13/93	ND	2.88	RFI-00233	
SS-14	dieldrin	09/13/93	ND	2.88	RFI-00233	
SS-14	endos_1	09/13/93	ND	1.44	RFI-00233	
SS-14	endos_2	09/13/93	ND	2.88	RFI-00233	
SS-14	endos_s	09/13/93	ND	2.88	RFI-00233	
SS-14	endrin	09/13/93	ND	2.88	RFI-00233	
SS-14	endrn_al	09/13/93	ND	2.88	RFI-00233	
SS-14	endrn_kt	09/13/93	ND	2.88	RFI-00233	
SS-14	g_bhc	09/13/93	ND	1.44	RFI-00233	
SS-14	g_chlrdn	09/13/93	ND	1.44	RFI-00233	
SS-14	hept_clr	09/13/93	ND	1.44	RFI-00233	
SS-14	hept_epx	09/13/93	ND	1.44	RFI-00233	
SS-14	meth_xcl	09/13/93	ND	14.40	RFI-00233	UJ
SS-14	pcb_1016	09/13/93	ND	28.00	RFI-00233	
SS-14	pcb_1221	09/13/93	ND	57.50	RFI-00233	
SS-14	pcb_1232	09/13/93	ND	28.00	RFI-00233	
SS-14	pcb_1242	09/13/93	ND	28.00	RFI-00233	
SS-14	pcb_1248	09/13/93	ND	28.00	RFI-00233	
SS-14	pcb_1254	09/13/93	ND	28.00	RFI-00233	
SS-14	pcb_1260	09/13/93	ND	28.00	RFI-00233	
SS-14	toxaphen	09/13/93	ND	135.00	RFI-00233	UJ

ND = Compound Not Detected

RFI: 0003008.RM

THIS PAGE INTENTIONALLY LEFT BLANK

Appendix H

Soil Chemical Data from BH-39, BH-41, and BH-42

THIS PAGE INTENTIONALLY LEFT BLANK

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	acetone	10/14/93		21.00	RFI-00584	J	(06-08')
BH-39	acetone	10/14/93		89.00	RFI-00585	J	(18-20')
BH-39	benzene	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	benzene	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	br_meth	10/14/93	ND	11.00	RFI-00584	UJ	(06-08')
BH-39	br_meth	10/14/93	ND	11.00	RFI-00585	UJ	(18-20')
BH-39	brdcmeth	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	brdcmeth	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	brform	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	brform	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	c_13_dcp	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	c_13_dcp	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	ccl4	10/14/93		2.50	RFI-00584	J	(06-08')
BH-39	ccl4	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	cl_benz	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	cl_benz	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	cl_eth	10/14/93	ND	11.00	RFI-00584	UJ	(06-08')
BH-39	cl_eth	10/14/93	ND	11.00	RFI-00585	UJ	(18-20')
BH-39	cl_form	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	cl_form	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	cl_meth	10/14/93	ND	11.00	RFI-00584		(06-08')
BH-39	cl_meth	10/14/93	ND	11.00	RFI-00585		(18-20')
BH-39	cs2	10/14/93	ND	5.50	RFI-00584	UJ	(06-08')
BH-39	cs2	10/14/93	ND	5.50	RFI-00585	UJ	(18-20')
BH-39	dbc_meth	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	dbc_meth	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	dca_11	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	dca_11	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	dca_12	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	dca_12	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	dce_11	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	dce_11	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	dce_12_t	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	dce_12_t	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	dcp_12	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	dcp_12	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	eth_benz	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	eth_benz	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	hexnone2	10/14/93	ND	11.00	RFI-00584		(06-08')
BH-39	hexnone2	10/14/93	ND	11.00	RFI-00585		(18-20')
BH-39	mek	10/14/93	ND	11.00	RFI-00584		(06-08')
BH-39	mek	10/14/93	ND	11.00	RFI-00585		(18-20')
BH-39	mene_cl	10/14/93		25.70	RFI-00584	UJ	(06-08')
BH-39	mene_cl	10/14/93		39.50	RFI-00585	UJ	(18-20')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	mibk	10/14/93	ND	11.00	RFI-00584		(06-08')
BH-39	mibk	10/14/93	ND	11.00	RFI-00585		(18-20')
BH-39	styrene	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	styrene	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	t_13_dcp	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	t_13_dcp	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	tca_111	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	tca_111	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	tca_112	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	tca_112	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	tca_1122	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	tca_1122	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	tetcleth	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	tetcleth	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	toluene	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	toluene	10/14/93		800.00	RFI-00592	R	(06-10')
BH-39	toluene	10/14/93		600.00	RFI-00448	R	(06-10')
BH-39	toluene	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	toluene	10/14/93		600.00	RFI-00593	R	(18-20')
BH-39	toluene	10/14/93		700.00	RFI-00450	R	(18-20')
BH-39	tricleth	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	tricleth	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-39	vnyl_cl	10/14/93	ND	11.00	RFI-00584		(06-08')
BH-39	vnyl_cl	10/14/93	ND	11.00	RFI-00585		(18-20')
BH-39	xylene	10/14/93	ND	5.50	RFI-00584		(06-08')
BH-39	xylene	10/14/93	ND	5.50	RFI-00585		(18-20')
BH-41	acetone	10/18/93	ND	12.00	RFI-00589	UJ	(10-12')
BH-41	acetone	10/19/93	ND	12.00	RFI-00591	UJ	(17-19')
BH-41	benzene	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	benzene	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	br_meth	10/18/93	ND	12.00	RFI-00589		(10-12')
BH-41	br_meth	10/19/93	ND	11.70	RFI-00591		(17-19')
BH-41	brdcmeth	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	brdcmeth	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	brform	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	brform	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	c_13_dcp	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	c_13_dcp	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	ccl4	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	ccl4	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	cl_benz	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	cl_benz	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	cl_eth	10/18/93	ND	12.00	RFI-00589	UJ	(10-12')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	cl_eth	10/19/93	ND	11.70	RFI-00591	UJ	(17-19')
BH-41	cl_form	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	cl_form	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	cl_meth	10/18/93	ND	12.00	RFI-00589	UJ	(10-12')
BH-41	cl_meth	10/19/93	ND	11.70	RFI-00591	UJ	(17-19')
BH-41	cs2	10/18/93		18.00	RFI-00589	J	(10-12')
BH-41	cs2	10/19/93	ND	5.80	RFI-00591	UJ	(17-19')
BH-41	dbc_meth	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	dbc_meth	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	dca_11	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	dca_11	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	dca_12	10/18/93	ND	6.00	RFI-00589	UJ	(10-12')
BH-41	dca_12	10/19/93	ND	5.80	RFI-00591	UJ	(17-19')
BH-41	dce_11	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	dce_11	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	dce_12_t	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	dce_12_t	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	dcp_12	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	dcp_12	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	eth_benz	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	eth_benz	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	hexnone2	10/18/93	ND	12.00	RFI-00589	UJ	(10-12')
BH-41	hexnone2	10/19/93	ND	12.00	RFI-00591	UJ	(17-19')
BH-41	mek	10/18/93	ND	12.00	RFI-00589		(10-12')
BH-41	mek	10/19/93	ND	11.70	RFI-00591		(17-19')
BH-41	mene_cl	10/18/93		17.00	RFI-00589	UJ	(10-12')
BH-41	mene_cl	10/19/93		20.90	RFI-00591	UJ	(17-19')
BH-41	mibk	10/18/93	ND	12.00	RFI-00589	UJ	(10-12')
BH-41	mibk	10/19/93	ND	11.70	RFI-00591	UJ	(17-19')
BH-41	styrene	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	styrene	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	t_13_dcp	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	t_13_dcp	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	tca_111	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	tca_111	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	tca_112	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	tca_112	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	tca_1122	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	tca_1122	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	tetcleth	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	tetcleth	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	toluene	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	toluene	10/18/93		800.00	RFI-00595	R	(10-12')
BH-41	toluene	10/19/93	ND	5.80	RFI-00591		(17-19')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	toluene	10/19/93		900.00	RFI-00597	R	(17-19')
BH-41	tricleth	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	tricleth	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-41	vnyl_cl	10/18/93	ND	12.00	RFI-00589		(10-12')
BH-41	vnyl_cl	10/19/93	ND	11.70	RFI-00591		(17-19')
BH-41	xylene	10/18/93	ND	6.00	RFI-00589		(10-12')
BH-41	xylene	10/19/93	ND	5.80	RFI-00591		(17-19')
BH-42	acetone	12/07/93	ND	12.00	RFI-01040		(07-09')
BH-42	acetone	12/08/93		25.00	RFI-01044	UJ	(12-14')
BH-42	acetone	12/08/93		39.00	RFI-01046	UJ	(25-27')
BH-42	benzene	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	benzene	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	benzene	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	br_meth	12/07/93	ND	11.80	RFI-01040		(07-09')
BH-42	br_meth	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	br_meth	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	brdcmeth	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	brdcmeth	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	brdcmeth	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	brform	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	brform	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	brform	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	c_13_dcp	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	c_13_dcp	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	c_13_dcp	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	ccl4	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	ccl4	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	ccl4	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	cl_benz	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	cl_benz	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	cl_benz	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	cl_eth	12/07/93	ND	11.80	RFI-01040	UJ	(07-09')
BH-42	cl_eth	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	cl_eth	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	cl_form	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	cl_form	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	cl_form	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	cl_meth	12/07/93	ND	11.80	RFI-01040		(07-09')
BH-42	cl_meth	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	cl_meth	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	cs2	12/07/93		1.60	RFI-01040	J	(07-09')
BH-42	cs2	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	cs2	12/08/93	ND	6.00	RFI-01046		(25-27')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	dbc_meth	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	dbc_meth	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	dbc_meth	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	dca_11	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	dca_11	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	dca_11	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	dca_12	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	dca_12	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	dca_12	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	dce_11	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	dce_11	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	dce_11	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	dce_12_t	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	dce_12_t	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	dce_12_t	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	dcp_12	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	dcp_12	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	dcp_12	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	eth_benz	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	eth_benz	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	eth_benz	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	hexnone2	12/07/93	ND	12.00	RFI-01040		(07-09')
BH-42	hexnone2	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	hexnone2	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	mek	12/07/93	ND	11.80	RFI-01040		(07-09')
BH-42	mek	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	mek	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	mene_cl	12/07/93		22.30	RFI-01040	U	(07-09')
BH-42	mene_cl	12/08/93		12.60	RFI-01044	U	(12-14')
BH-42	mene_cl	12/08/93		6.10	RFI-01046	U	(25-27')
BH-42	mibk	12/07/93	ND	11.80	RFI-01040		(07-09')
BH-42	mibk	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	mibk	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	styrene	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	styrene	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	styrene	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	t_13_dcp	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	t_13_dcp	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	t_13_dcp	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	tca_111	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	tca_111	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	tca_111	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	tca_112	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	tca_112	12/08/93	ND	6.00	RFI-01044		(12-14')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	tca_112	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	tca_1122	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	tca_1122	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	tca_1122	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	tetcleth	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	tetcleth	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	tetcleth	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	toluene	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	toluene	12/07/93		800.00	RFI-00816	R	(07-09')
BH-42	toluene	12/08/93		400.00	RFI-01078	R	(12-14')
BH-42	toluene	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	toluene	12/08/93		400.00	RFI-01080	R	(25-27')
BH-42	toluene	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	tricleth	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	tricleth	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	tricleth	12/08/93	ND	6.00	RFI-01046		(25-27')
BH-42	vnyl_cl	12/07/93	ND	11.80	RFI-01040		(07-09')
BH-42	vnyl_cl	12/08/93	ND	12.00	RFI-01044		(12-14')
BH-42	vnyl_cl	12/08/93	ND	12.00	RFI-01046		(25-27')
BH-42	xylene	12/07/93	ND	5.90	RFI-01040		(07-09')
BH-42	xylene	12/08/93	ND	6.00	RFI-01044		(12-14')
BH-42	xylene	12/08/93	ND	6.00	RFI-01046		(25-27')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	acnphthe	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	acnphthe	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	acnphthy	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	acnphthy	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	anthracn	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	anthracn	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bis2ceth	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bis2ceth	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bis2cexy	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bis2cexy	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bis2clis	10/14/93	ND	363.60	RFI-00592	UJ	(06-10')
BH-39	bis2clis	10/14/93	ND	361.50	RFI-00593	UJ	(18-20')
BH-39	bis2ehex	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bis2ehex	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bnz_a_an	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bnz_a_an	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bnz_a_py	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bnz_a_py	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bnz_b_fl	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bnz_b_fl	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bnz_k_fl	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bnz_k_fl	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	bnzghipr	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	bnzghipr	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	brppeth4	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	brppeth4	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	butbnzph	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	butbnzph	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	carbazol	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	carbazol	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	chppeth4	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	chppeth4	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	chrysene	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	chrysene	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	clnapht2	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	clnapht2	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	clphen_2	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	clphen_2	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dbahanth	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dbahanth	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dcb_33	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dcb_33	10/14/93	ND	361.50	RFI-00593		(18-20')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	dibnzfur	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dibnzfur	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	diclph24	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	diclph24	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	diethyph	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	diethyph	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dimthp24	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dimthp24	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dimthyph	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dimthyph	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dinbutph	10/14/93		40.50	RFI-00592	UJ	(06-10')
BH-39	dinbutph	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dinoctph	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dinoctph	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dintrp24	10/14/93	ND	890.00	RFI-00592		(06-10')
BH-39	dintrp24	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	dintrt24	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dintrt24	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dintrt26	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	dintrt26	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	dntrcr46	10/14/93	ND	890.00	RFI-00592		(06-10')
BH-39	dntrcr46	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	docosane	10/14/93		300.00	RFI-00448	J	(06-10')
BH-39	flranthn	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	flranthn	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	fluorene	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	fluorene	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	hexclbnz	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	hexclbnz	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	hexclbut	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	hexclbut	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	hexcleth	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	hexcleth	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	hexclpen	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	hexclpen	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	indnpyre	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	indnpyre	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	isophron	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	isophron	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	m_dclbnz	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	m_dclbnz	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	m_ntranl	10/14/93	ND	890.00	RFI-00592		(06-10')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	m_ntranl	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	mthynph2	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	mthynph2	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	n_dodcan	10/14/93	ND	350.00	RFI-00448	UJ	(06-10')
BH-39	n_dodcan	10/14/93	ND	360.00	RFI-00450	UJ	(18-20')
BH-39	naphthal	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	naphthal	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	nntrphny	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	nntrphny	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	nntrprpy	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	nntrprpy	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	ntrobenz	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	ntrobenz	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	o_cresol	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	o_cresol	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	o_dclbnz	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	o_dclbnz	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	o_ntranl	10/14/93	ND	890.00	RFI-00592		(06-10')
BH-39	o_ntranl	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	o_ntrphn	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	o_ntrphn	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	p_cresol	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	p_cresol	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	p_dclbnz	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	p_dclbnz	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	p_ntranl	10/14/93	ND	890.00	RFI-00592		(06-10')
BH-39	p_ntranl	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	p_ntrphn	10/14/93	ND	890.00	RFI-00592		(06-10')
BH-39	p_ntrphn	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	pclranil	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	pclranil	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	pclrmcrs	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	pclrmcrs	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	phenol	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	phenol	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	phnanthr	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	phnanthr	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	pntclphn	10/14/93	ND	890.00	RFI-00592		(06-10')
BH-39	pntclphn	10/14/93	ND	880.00	RFI-00593		(18-20')
BH-39	pntdecan	10/14/93		400.00	RFI-00592	J	(06-10')
BH-39	pntdecan	10/14/93		500.00	RFI-00448	J	(06-10')
BH-39	pntdecan	10/14/93		700.00	RFI-00593	J	(18-20')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	pntdecan	10/14/93		500.00	RFI-00450	J	(18-20')
BH-39	pyrene	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	pyrene	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	tcb_124	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	tcb_124	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	tclph245	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	tclph245	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	tclph246	10/14/93	ND	363.60	RFI-00592		(06-10')
BH-39	tclph246	10/14/93	ND	361.50	RFI-00593		(18-20')
BH-39	tetrdecn	10/14/93		400.00	RFI-00593	J	(18-20')
BH-39	tetrdecn	10/14/93		300.00	RFI-00450	J	(18-20')
BH-39	trbutphs	10/14/93	ND	350.00	RFI-00448	UJ	(06-10')
BH-39	trbutphs	10/14/93	ND	360.00	RFI-00450	UJ	(18-20')
BH-41	acnphthe	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	acnphthe	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	acnphthy	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	acnphthy	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	anthracn	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	anthracn	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	bis2ceth	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bis2ceth	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	bis2cexy	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bis2cexy	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	bis2clis	10/18/93	ND	402.40	RFI-00595	UJ	(10-12')
BH-41	bis2clis	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	bis2ehex	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bis2ehex	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	bnz_a_an	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bnz_a_an	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	bnz_a_py	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bnz_a_py	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	bnz_b_fl	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bnz_b_fl	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	bnz_k_fl	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bnz_k_fl	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	bnzghipr	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	bnzghipr	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	brppeth4	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	brppeth4	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	butbnzph	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	butbnzph	10/19/93	ND	407.40	RFI-00597		(17-19')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	carbazol	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	carbazol	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	chppeth4	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	chppeth4	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	chrysene	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	chrysene	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	clnapht2	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	clnapht2	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	clphen_2	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	clphen_2	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dbahanth	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dbahanth	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	dcb_33	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dcb_33	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	dibnzfur	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dibnzfur	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	diclph24	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	diclph24	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	diethyph	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	diethyph	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dimthp24	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dimthp24	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dimthyph	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dimthyph	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dinbutph	10/18/93		590.00	RFI-00595	U	(10-12')
BH-41	dinbutph	10/19/93		592.30	RFI-00597	U	(17-19')
BH-41	dinoctph	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dinoctph	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dintrp24	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	dintrp24	10/19/93	ND	1029.00	RFI-00597		(17-19')
BH-41	dintrt24	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dintrt24	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dintrt26	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	dintrt26	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	dntrcr46	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	dntrcr46	10/19/93	ND	1029.00	RFI-00597		(17-19')
BH-41	flranthn	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	flranthn	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	fluorene	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	fluorene	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	hexclbnz	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	hexclbnz	10/19/93	ND	407.40	RFI-00597		(17-19')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	hexclbut	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	hexclbut	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	hexcleth	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	hexcleth	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	hexclpen	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	hexclpen	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	indnpyre	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	indnpyre	10/19/93	ND	407.40	RFI-00597	UJ	(17-19')
BH-41	isophron	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	isophron	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	m_dclbnz	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	m_dclbnz	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	m_ntranl	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	m_ntranl	10/19/93	ND	1029.00	RFI-00597		(17-19')
BH-41	mthynph2	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	mthynph2	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	naphthal	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	naphthal	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	nntrphny	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	nntrphny	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	nntrprpy	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	nntrprpy	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	ntrobenz	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	ntrobenz	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	o_cresol	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	o_cresol	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	o_dclbnz	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	o_dclbnz	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	o_ntranl	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	o_ntranl	10/19/93	ND	1029.00	RFI-00597		(17-19')
BH-41	o_ntrphn	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	o_ntrphn	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	p_cresol	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	p_cresol	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	p_dclbnz	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	p_dclbnz	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	p_ntranl	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	p_ntranl	10/19/93	ND	1029.00	RFI-00597		(17-19')
BH-41	p_ntrphn	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	p_ntrphn	10/19/93	ND	1029.00	RFI-00597	UJ	(17-19')
BH-41	pclranil	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	pclranil	10/19/93	ND	407.40	RFI-00597		(17-19')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	pclrmcrs	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	pclrmcrs	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	phenol	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	phenol	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	phnanthr	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	phnanthr	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	pntclphn	10/18/93	ND	980.00	RFI-00595		(10-12')
BH-41	pntclphn	10/19/93	ND	1029.00	RFI-00597		(17-19')
BH-41	pntdecan	10/18/93		600.00	RFI-00595	J	(10-12')
BH-41	pntdecan	10/19/93		300.00	RFI-00597	J	(17-19')
BH-41	pyrene	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	pyrene	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	tcb_124	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	tcb_124	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	tclph245	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	tclph245	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	tclph246	10/18/93	ND	402.40	RFI-00595		(10-12')
BH-41	tclph246	10/19/93	ND	407.40	RFI-00597		(17-19')
BH-41	tetrdecn	10/18/93		300.00	RFI-00595	J	(10-12')
BH-42	acnphthe	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	acnphthe	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	acnphthe	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	acnphthy	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	acnphthy	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	acnphthy	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	anthracn	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	anthracn	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	anthracn	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bis2ceth	12/07/93	ND	386.90	RFI-00816	UJ	(07-09')
BH-42	bis2ceth	12/08/93	ND	383.60	RFI-01078	UJ	(12-14')
BH-42	bis2ceth	12/08/93	ND	387.30	RFI-01080	UJ	(25-27')
BH-42	bis2cexy	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	bis2cexy	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bis2cexy	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bis2clis	12/07/93	ND	386.90	RFI-00816	UJ	(07-09')
BH-42	bis2clis	12/08/93	ND	383.60	RFI-01078	UJ	(12-14')
BH-42	bis2clis	12/08/93	ND	387.30	RFI-01080	UJ	(25-27')
BH-42	bis2ehex	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	bis2ehex	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bis2ehex	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bnz_a_an	12/07/93	ND	386.90	RFI-00816		(07-09')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	bnz_a_an	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bnz_a_an	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bnz_a_py	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	bnz_a_py	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bnz_a_py	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bnz_b_fl	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	bnz_b_fl	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bnz_b_fl	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bnz_k_fl	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	bnz_k_fl	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bnz_k_fl	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	bnzghipr	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	bnzghipr	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	bnzghipr	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	brppeth4	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	brppeth4	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	brppeth4	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	butbnzph	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	butbnzph	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	butbnzph	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	carbazol	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	carbazol	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	carbazol	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	chppeth4	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	chppeth4	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	chppeth4	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	chrysene	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	chrysene	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	chrysene	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	clnapht2	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	clnapht2	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	clnapht2	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	clphen_2	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	clphen_2	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	clphen_2	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dbahanth	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dbahanth	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dbahanth	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dcb_33	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dcb_33	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dcb_33	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dibnzfur	12/07/93	ND	386.90	RFI-00816		(07-09')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	dibnzfur	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dibnzfur	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	diclph24	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	diclph24	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	diclph24	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	diethyph	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	diethyph	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	diethyph	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dimthp24	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dimthp24	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dimthp24	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dimthyph	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dimthyph	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dimthyph	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dinbutph	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dinbutph	12/08/93		123.00	RFI-01078	J	(12-14')
BH-42	dinbutph	12/08/93		350.50	RFI-01080	J	(25-27')
BH-42	dinoctph	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dinoctph	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dinoctph	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dintrp24	12/07/93	ND	976.90	RFI-00816		(07-09')
BH-42	dintrp24	12/08/93	ND	968.60	RFI-01078		(12-14')
BH-42	dintrp24	12/08/93	ND	977.90	RFI-01080		(25-27')
BH-42	dintrt24	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dintrt24	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dintrt24	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dintrt26	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	dintrt26	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	dintrt26	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	dntrcr46	12/07/93	ND	976.90	RFI-00816		(07-09')
BH-42	dntrcr46	12/08/93	ND	968.60	RFI-01078		(12-14')
BH-42	dntrcr46	12/08/93	ND	977.90	RFI-01080		(25-27')
BH-42	flranthn	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	flranthn	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	flranthn	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	fluorene	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	fluorene	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	fluorene	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	hexclbnz	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	hexclbnz	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	hexclbnz	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	hexclbut	12/07/93	ND	386.90	RFI-00816		(07-09')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	hexclbut	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	hexclbut	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	hexcleth	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	hexcleth	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	hexcleth	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	hexclpen	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	hexclpen	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	hexclpen	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	indnpyre	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	indnpyre	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	indnpyre	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	isophron	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	isophron	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	isophron	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	m_dclbnz	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	m_dclbnz	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	m_dclbnz	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	m_ntranl	12/07/93	ND	976.90	RFI-00816		(07-09')
BH-42	m_ntranl	12/08/93	ND	968.60	RFI-01078		(12-14')
BH-42	mthynph2	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	mthynph2	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	mthynph2	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	n_dodcan	12/07/93	ND	390.00	RFI-00816	UJ	(07-09')
BH-42	n_dodcan	12/08/93	ND	380.00	RFI-01078	UJ	(12-14')
BH-42	n_dodcan	12/08/93	ND	390.00	RFI-01080	UJ	(25-27')
BH-42	naphthal	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	naphthal	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	naphthal	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	nntrphny	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	nntrphny	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	nntrphny	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	nntrprpy	12/07/93	ND	386.90	RFI-00816	UJ	(07-09')
BH-42	nntrprpy	12/08/93	ND	383.60	RFI-01078	UJ	(12-14')
BH-42	nntrprpy	12/08/93	ND	387.30	RFI-01080	UJ	(25-27')
BH-42	ntrobenz	12/07/93	ND	386.90	RFI-00816	UJ	(07-09')
BH-42	ntrobenz	12/08/93	ND	383.60	RFI-01078	UJ	(12-14')
BH-42	ntrobenz	12/08/93	ND	387.30	RFI-01080	UJ	(25-27')
BH-42	o_cresol	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	o_cresol	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	o_cresol	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	o_dclbnz	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	o_dclbnz	12/08/93	ND	383.60	RFI-01078		(12-14')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	o_dclbnz	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	o_ntranl	12/07/93	ND	976.90	RFI-00816	UJ	(07-09')
BH-42	o_ntranl	12/08/93	ND	968.60	RFI-01078	UJ	(12-14')
BH-42	o_ntranl	12/08/93	ND	977.90	RFI-01080	UJ	(25-27')
BH-42	o_ntrphn	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	o_ntrphn	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	o_ntrphn	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	p_cresol	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	p_cresol	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	p_cresol	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	p_dclbnz	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	p_dclbnz	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	p_dclbnz	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	p_ntranl	12/07/93	ND	976.90	RFI-00816		(07-09')
BH-42	p_ntranl	12/08/93	ND	968.60	RFI-01078		(12-14')
BH-42	p_ntranl	12/08/93	ND	977.90	RFI-01080		(25-27')
BH-42	p_ntrphn	12/07/93	ND	976.90	RFI-00816	UJ	(07-09')
BH-42	p_ntrphn	12/08/93	ND	968.60	RFI-01078	UJ	(12-14')
BH-42	p_ntrphn	12/08/93	ND	977.90	RFI-01080	UJ	(25-27')
BH-42	pclranil	12/07/93	ND	386.90	RFI-00816	UJ	(07-09')
BH-42	pclranil	12/08/93	ND	383.60	RFI-01078	UJ	(12-14')
BH-42	pclranil	12/08/93	ND	387.30	RFI-01080	UJ	(25-27')
BH-42	pclrmcrs	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	pclrmcrs	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	pclrmcrs	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	phenol	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	phenol	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	phenol	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	phnanthr	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	phnanthr	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	phnanthr	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	pntclphn	12/07/93	ND	976.90	RFI-00816		(07-09')
BH-42	pntclphn	12/08/93	ND	968.60	RFI-01078		(12-14')
BH-42	pntclphn	12/08/93	ND	977.90	RFI-01080		(25-27')
BH-42	pyrene	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	pyrene	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	pyrene	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	tcb_124	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	tcb_124	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	tcb_124	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	tclph245	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	tclph245	12/08/93	ND	383.60	RFI-01078		(12-14')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	tclph245	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	tclph246	12/07/93	ND	386.90	RFI-00816		(07-09')
BH-42	tclph246	12/08/93	ND	383.60	RFI-01078		(12-14')
BH-42	tclph246	12/08/93	ND	387.30	RFI-01080		(25-27')
BH-42	trbutphs	12/07/93	ND	390.00	RFI-00816		(07-09')
BH-42	trbutphs	12/08/93	ND	380.00	RFI-01078		(12-14')
BH-42	trbutphs	12/08/93	ND	390.00	RFI-01080		(25-27')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	ag_t	10/14/93	ND	352.00	RFI-00640		(00-02')
BH-39	al_t	10/14/93		13300000.00	RFI-00640	J	(00-02')
BH-39	as_t	10/14/93		6300.00	RFI-00640		(00-02')
BH-39	ba_t	10/14/93		84500.00	RFI-00640	J	(00-02')
BH-39	be_t	10/14/93		576.00	RFI-00640		(00-02')
BH-39	ca_t	10/14/93		1320000.00	RFI-00640	J	(00-02')
BH-39	cd_t	10/14/93	ND	235.00	RFI-00640		(00-02')
BH-39	co_t	10/14/93		10400.00	RFI-00640		(00-02')
BH-39	cr_t	10/14/93		14200.00	RFI-00640		(00-02')
BH-39	cu_t	10/14/93		16600.00	RFI-00640		(00-02')
BH-39	fe_t	10/14/93		24400000.00	RFI-00640	J	(00-02')
BH-39	hg_t	10/14/93		24.80	RFI-00640		(00-02')
BH-39	k_t	10/14/93		942000.00	RFI-00640		(00-02')
BH-39	mg_t	10/14/93		3170000.00	RFI-00640	J	(00-02')
BH-39	mn_t	10/14/93		611000.00	RFI-00640	J	(00-02')
BH-39	na_t	10/14/93		58800.00	RFI-00640		(00-02')
BH-39	ni_t	10/14/93		21500.00	RFI-00640		(00-02')
BH-39	pb_t	10/14/93		16600.00	RFI-00640		(00-02')
BH-39	sb_t	10/14/93	ND	1410.00	RFI-00640	UJ	(00-02')
BH-39	se_t	10/14/93	ND	112.00	RFI-00640	UJ	(00-02')
BH-39	tl_t	10/14/93	ND	112.00	RFI-00640		(00-02')
BH-39	v_t	10/14/93		17700.00	RFI-00640		(00-02')
BH-39	zn_t	10/14/93		63300.00	RFI-00640	J	(00-02')
BH-39	ag_t	10/14/93	ND	332.00	RFI-00641		(06-10')
BH-39	al_t	10/14/93		10900000.00	RFI-00641	J	(06-10')
BH-39	as_t	10/14/93		5730.00	RFI-00641		(06-10')
BH-39	ba_t	10/14/93		67400.00	RFI-00641	J	(06-10')
BH-39	be_t	10/14/93		527.00	RFI-00641		(06-10')
BH-39	ca_t	10/14/93		19800000.00	RFI-00641	J	(06-10')
BH-39	cd_t	10/14/93	ND	221.00	RFI-00641		(06-10')
BH-39	co_t	10/14/93		9580.00	RFI-00641		(06-10')
BH-39	cr_t	10/14/93		14400.00	RFI-00641		(06-10')
BH-39	cu_t	10/14/93		19800.00	RFI-00641		(06-10')
BH-39	fe_t	10/14/93		22700000.00	RFI-00641	J	(06-10')
BH-39	hg_t	10/14/93	ND	16.60	RFI-00641		(06-10')
BH-39	k_t	10/14/93		2060000.00	RFI-00641		(06-10')
BH-39	mg_t	10/14/93		8210000.00	RFI-00641	J	(06-10')
BH-39	mn_t	10/14/93		334000.00	RFI-00641	J	(06-10')
BH-39	na_t	10/14/93		213000.00	RFI-00641		(06-10')
BH-39	ni_t	10/14/93		22800.00	RFI-00641		(06-10')
BH-39	pb_t	10/14/93		12400.00	RFI-00641		(06-10')
BH-39	sb_t	10/14/93	ND	1330.00	RFI-00641	UJ	(06-10')
BH-39	se_t	10/14/93	ND	110.00	RFI-00641	UJ	(06-10')
BH-39	tl_t	10/14/93	ND	110.00	RFI-00641		(06-10')
BH-39	v_t	10/14/93		14400.00	RFI-00641		(06-10')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	zn_t	10/14/93		58800.00	RFI-00641	J	(06-10')
BH-39	ag_t	10/14/93	ND	333.00	RFI-00642		(18-20')
BH-39	al_t	10/14/93		9990000.00	RFI-00642	J	(18-20')
BH-39	as_t	10/14/93		7220.00	RFI-00642		(18-20')
BH-39	ba_t	10/14/93		72800.00	RFI-00642	J	(18-20')
BH-39	be_t	10/14/93		499.00	RFI-00642		(18-20')
BH-39	ca_t	10/14/93		36500000.00	RFI-00642	J	(18-20')
BH-39	cd_t	10/14/93	ND	222.00	RFI-00642		(18-20')
BH-39	co_t	10/14/93		9370.00	RFI-00642		(18-20')
BH-39	cr_t	10/14/93		13100.00	RFI-00642		(18-20')
BH-39	cu_t	10/14/93		18300.00	RFI-00642		(18-20')
BH-39	fe_t	10/14/93		21600000.00	RFI-00642	J	(18-20')
BH-39	hg_t	10/14/93	ND	16.30	RFI-00642		(18-20')
BH-39	k_t	10/14/93		2070000.00	RFI-00642		(18-20')
BH-39	mg_t	10/14/93		11100000.00	RFI-00642	J	(18-20')
BH-39	mn_t	10/14/93		372000.00	RFI-00642	J	(18-20')
BH-39	na_t	10/14/93		141000.00	RFI-00642		(18-20')
BH-39	ni_t	10/14/93		23000.00	RFI-00642		(18-20')
BH-39	pb_t	10/14/93		13300.00	RFI-00642		(18-20')
BH-39	sb_t	10/14/93	ND	1330.00	RFI-00642	UJ	(18-20')
BH-39	se_t	10/14/93	ND	110.00	RFI-00642	UJ	(18-20')
BH-39	tl_t	10/14/93	ND	110.00	RFI-00642		(18-20')
BH-39	v_t	10/14/93		13800.00	RFI-00642		(18-20')
BH-39	zn_t	10/14/93		60300.00	RFI-00642	J	(18-20')
BH-41	ag_t	10/18/93	ND	332.00	RFI-00646		(00-02')
BH-41	al_t	10/18/93		8900000.00	RFI-00646	J	(00-02')
BH-41	as_t	10/18/93		4210.00	RFI-00646		(00-02')
BH-41	ba_t	10/18/93		68600.00	RFI-00646		(00-02')
BH-41	be_t	10/18/93		433.00	RFI-00646		(00-02')
BH-41	ca_t	10/18/93		29300000.00	RFI-00646	J	(00-02')
BH-41	cd_t	10/18/93	ND	222.00	RFI-00646		(00-02')
BH-41	co_t	10/18/93		9730.00	RFI-00646		(00-02')
BH-41	cr_t	10/18/93		12400.00	RFI-00646		(00-02')
BH-41	cu_t	10/18/93		21900.00	RFI-00646	J	(00-02')
BH-41	fe_t	10/18/93		20300000.00	RFI-00646	J	(00-02')
BH-41	hg_t	10/18/93	ND	16.00	RFI-00646		(00-02')
BH-41	k_t	10/18/93		1370000.00	RFI-00646		(00-02')
BH-41	mg_t	10/18/93		8890000.00	RFI-00646	J	(00-02')
BH-41	mn_t	10/18/93		404000.00	RFI-00646	J	(00-02')
BH-41	na_t	10/18/93		77500.00	RFI-00646	J	(00-02')
BH-41	ni_t	10/18/93		23500.00	RFI-00646		(00-02')
BH-41	pb_t	10/18/93		11200.00	RFI-00646		(00-02')
BH-41	sb_t	10/18/93	ND	1330.00	RFI-00646	UJ	(00-02')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	se_t	10/18/93	ND	109.00	RFI-00646	UJ	(00-02')
BH-41	tl_t	10/18/93	ND	109.00	RFI-00646	UJ	(00-02')
BH-41	v_t	10/18/93		14600.00	RFI-00646		(00-02')
BH-41	zn_t	10/18/93		58400.00	RFI-00646	J	(00-02')
BH-41	ag_t	10/18/93	ND	362.00	RFI-00647		(06-08')
BH-41	al_t	10/18/93		12300000.00	RFI-00647	J	(06-08')
BH-41	as_t	10/18/93		4470.00	RFI-00647		(06-08')
BH-41	ba_t	10/18/93		104000.00	RFI-00647		(06-08')
BH-41	be_t	10/18/93		589.00	RFI-00647		(06-08')
BH-41	ca_t	10/18/93		30900000.00	RFI-00647	J	(06-08')
BH-41	cd_t	10/18/93	ND	241.00	RFI-00647		(06-08')
BH-41	co_t	10/18/93		11400.00	RFI-00647		(06-08')
BH-41	cr_t	10/18/93		17500.00	RFI-00647		(06-08')
BH-41	cu_t	10/18/93		20600.00	RFI-00647	J	(06-08')
BH-41	fe_t	10/18/93		24800000.00	RFI-00647	J	(06-08')
BH-41	hg_t	10/18/93	ND	18.00	RFI-00647		(06-08')
BH-41	k_t	10/18/93		2290000.00	RFI-00647		(06-08')
BH-41	mg_t	10/18/93		11000000.00	RFI-00647	J	(06-08')
BH-41	mn_t	10/18/93		372000.00	RFI-00647	J	(06-08')
BH-41	na_t	10/18/93		118000.00	RFI-00647	J	(06-08')
BH-41	ni_t	10/18/93		29000.00	RFI-00647		(06-08')
BH-41	pb_t	10/18/93		14000.00	RFI-00647		(06-08')
BH-41	sb_t	10/18/93		2230.00	RFI-00647	J	(06-08')
BH-41	se_t	10/18/93	ND	118.00	RFI-00647	UJ	(06-08')
BH-41	tl_t	10/18/93	ND	118.00	RFI-00647	UJ	(06-08')
BH-41	v_t	10/18/93		18800.00	RFI-00647	J	(06-08')
BH-41	zn_t	10/18/93		62700.00	RFI-00647	J	(06-08')
BH-41	ag_t	10/18/93	ND	362.00	RFI-00648		(10-12')
BH-41	al_t	10/18/93		15600000.00	RFI-00648	J	(10-12')
BH-41	as_t	10/18/93		4100.00	RFI-00648		(10-12')
BH-41	ba_t	10/18/93		114000.00	RFI-00648		(10-12')
BH-41	be_t	10/18/93		697.00	RFI-00648		(10-12')
BH-41	ca_t	10/18/93		31300000.00	RFI-00648	J	(10-12')
BH-41	cd_t	10/18/93	ND	241.00	RFI-00648		(10-12')
BH-41	co_t	10/18/93		13400.00	RFI-00648		(10-12')
BH-41	cr_t	10/18/93		20800.00	RFI-00648		(10-12')
BH-41	cu_t	10/18/93		21900.00	RFI-00648	J	(10-12')
BH-41	fe_t	10/18/93		28300000.00	RFI-00648	J	(10-12')
BH-41	hg_t	10/18/93	ND	18.50	RFI-00648		(10-12')
BH-41	k_t	10/18/93		3260000.00	RFI-00648		(10-12')
BH-41	mg_t	10/18/93		11500000.00	RFI-00648	J	(10-12')
BH-41	mn_t	10/18/93		471000.00	RFI-00648	J	(10-12')
BH-41	na_t	10/18/93		147000.00	RFI-00648	J	(10-12')
BH-41	ni_t	10/18/93		33000.00	RFI-00648		(10-12')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-41	pb_t	10/18/93		15300.00	RFI-00648		(10-12')
BH-41	sb_t	10/18/93	ND	1450.00	RFI-00648	UJ	(10-12')
BH-41	se_t	10/18/93	ND	117.00	RFI-00648	UJ	(10-12')
BH-41	tl_t	10/18/93	ND	117.00	RFI-00648	UJ	(10-12')
BH-41	v_t	10/18/93		23600.00	RFI-00648	J	(10-12')
BH-41	zn_t	10/18/93		68500.00	RFI-00648	J	(10-12')
BH-41	ag_t	10/19/93	ND	371.00	RFI-00650		(17-19')
BH-41	al_t	10/19/93		9160000.00	RFI-00650		(17-19')
BH-41	as_t	10/19/93		7530.00	RFI-00650	J	(17-19')
BH-41	ba_t	10/19/93		79500.00	RFI-00650		(17-19')
BH-41	be_t	10/19/93		449.00	RFI-00650		(17-19')
BH-41	ca_t	10/19/93		31000000.00	RFI-00650	J	(17-19')
BH-41	cd_t	10/19/93		317.00	RFI-00650		(17-19')
BH-41	co_t	10/19/93		10300.00	RFI-00650		(17-19')
BH-41	cr_t	10/19/93		14000.00	RFI-00650		(17-19')
BH-41	cu_t	10/19/93		21400.00	RFI-00650	J	(17-19')
BH-41	fe_t	10/19/93		22900000.00	RFI-00650	J	(17-19')
BH-41	hg_t	10/19/93	ND	18.30	RFI-00650		(17-19')
BH-41	k_t	10/19/93		1690000.00	RFI-00650		(17-19')
BH-41	mg_t	10/19/93		10400000.00	RFI-00650	J	(17-19')
BH-41	mn_t	10/19/93		384000.00	RFI-00650	J	(17-19')
BH-41	na_t	10/19/93		139000.00	RFI-00650	J	(17-19')
BH-41	ni_t	10/19/93		24000.00	RFI-00650		(17-19')
BH-41	pb_t	10/19/93		15100.00	RFI-00650		(17-19')
BH-41	sb_t	10/19/93		1740.00	RFI-00650	J	(17-19')
BH-41	se_t	10/19/93	ND	121.00	RFI-00650	UJ	(17-19')
BH-41	tl_t	10/19/93	ND	121.00	RFI-00650	UJ	(17-19')
BH-41	v_t	10/19/93		13700.00	RFI-00650		(17-19')
BH-41	zn_t	10/19/93		68600.00	RFI-00650	J	(17-19')
BH-42	ag_t	12/07/93	ND	356.00	RFI-01017		(00-02')
BH-42	al_t	12/07/93		12400000.00	RFI-01017		(00-02')
BH-42	as_t	12/07/93		2930.00	RFI-01017	J	(00-02')
BH-42	ba_t	12/07/93		120000.00	RFI-01017	J	(00-02')
BH-42	be_t	12/07/93		605.00	RFI-01017		(00-02')
BH-42	ca_t	12/07/93		20900000.00	RFI-01017		(00-02')
BH-42	cd_t	12/07/93	ND	237.00	RFI-01017		(00-02')
BH-42	co_t	12/07/93		11100.00	RFI-01017		(00-02')
BH-42	cr_t	12/07/93		16300.00	RFI-01017		(00-02')
BH-42	cu_t	12/07/93		20100.00	RFI-01017		(00-02')
BH-42	fe_t	12/07/93		24500000.00	RFI-01017	J	(00-02')
BH-42	hg_t	12/07/93		41.20	RFI-01017		(00-02')
BH-42	k_t	12/07/93		1630000.00	RFI-01017		(00-02')
BH-42	mg_t	12/07/93		8220000.00	RFI-01017		(00-02')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	mn_t	12/07/93		591000.00	RFI-01017		(00-02')
BH-42	na_t	12/07/93		100000.00	RFI-01017		(00-02')
BH-42	ni_t	12/07/93		24700.00	RFI-01017		(00-02')
BH-42	pb_t	12/07/93		16400.00	RFI-01017		(00-02')
BH-42	sb_t	12/07/93	ND	1420.00	RFI-01017	UJ	(00-02')
BH-42	se_t	12/07/93		689.00	RFI-01017	J	(00-02')
BH-42	tl_t	12/07/93	ND	118.00	RFI-01017		(00-02')
BH-42	v_t	12/07/93		16800.00	RFI-01017		(00-02')
BH-42	zn_t	12/07/93		67100.00	RFI-01017	J	(00-02')
BH-42	ag_t	12/07/93	ND	336.00	RFI-01018		(03-05')
BH-42	al_t	12/07/93		14000000.00	RFI-01018		(03-05')
BH-42	as_t	12/07/93		2790.00	RFI-01018	J	(03-05')
BH-42	ba_t	12/07/93		98700.00	RFI-01018	J	(03-05')
BH-42	be_t	12/07/93		659.00	RFI-01018		(03-05')
BH-42	ca_t	12/07/93		27000000.00	RFI-01018		(03-05')
BH-42	cd_t	12/07/93	ND	224.00	RFI-01018		(03-05')
BH-42	co_t	12/07/93		10900.00	RFI-01018		(03-05')
BH-42	cr_t	12/07/93		19000.00	RFI-01018		(03-05')
BH-42	cu_t	12/07/93		23200.00	RFI-01018		(03-05')
BH-42	fe_t	12/07/93		25600000.00	RFI-01018	J	(03-05')
BH-42	hg_t	12/07/93		28.40	RFI-01018		(03-05')
BH-42	k_t	12/07/93		2560000.00	RFI-01018		(03-05')
BH-42	mg_t	12/07/93		10300000.00	RFI-01018		(03-05')
BH-42	mn_t	12/07/93		318000.00	RFI-01018		(03-05')
BH-42	na_t	12/07/93		116000.00	RFI-01018		(03-05')
BH-42	ni_t	12/07/93		29600.00	RFI-01018		(03-05')
BH-42	pb_t	12/07/93		10700.00	RFI-01018		(03-05')
BH-42	sb_t	12/07/93		1710.00	RFI-01018	J	(03-05')
BH-42	se_t	12/07/93		885.00	RFI-01018	J	(03-05')
BH-42	tl_t	12/07/93	ND	113.00	RFI-01018		(03-05')
BH-42	v_t	12/07/93		19900.00	RFI-01018		(03-05')
BH-42	zn_t	12/07/93		60700.00	RFI-01018	J	(03-05')
BH-42	ag_t	12/07/93	ND	351.00	RFI-01019		(07-09')
BH-42	al_t	12/07/93		10000000.00	RFI-01019		(07-09')
BH-42	as_t	12/07/93		3370.00	RFI-01019	J	(07-09')
BH-42	ba_t	12/07/93		93900.00	RFI-01019	J	(07-09')
BH-42	be_t	12/07/93		514.00	RFI-01019		(07-09')
BH-42	ca_t	12/07/93		50200000.00	RFI-01019		(07-09')
BH-42	cd_t	12/07/93		548.00	RFI-01019		(07-09')
BH-42	co_t	12/07/93		9680.00	RFI-01019		(07-09')
BH-42	cr_t	12/07/93		13400.00	RFI-01019		(07-09')
BH-42	cu_t	12/07/93		18700.00	RFI-01019		(07-09')
BH-42	fe_t	12/07/93		20500000.00	RFI-01019	J	(07-09')
BH-42	hg_t	12/07/93		29.80	RFI-01019		(07-09')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	k_t	12/07/93		2030000.00	RFI-01019		(07-09')
BH-42	mg_t	12/07/93		23800000.00	RFI-01019		(07-09')
BH-42	mn_t	12/07/93		383000.00	RFI-01019		(07-09')
BH-42	na_t	12/07/93		130000.00	RFI-01019		(07-09')
BH-42	ni_t	12/07/93		22100.00	RFI-01019		(07-09')
BH-42	pb_t	12/07/93		8660.00	RFI-01019		(07-09')
BH-42	sb_t	12/07/93		2310.00	RFI-01019	J	(07-09')
BH-42	se_t	12/07/93	ND	116.00	RFI-01019	UJ	(07-09')
BH-42	tl_t	12/07/93	ND	116.00	RFI-01019		(07-09')
BH-42	v_t	12/07/93		13400.00	RFI-01019		(07-09')
BH-42	zn_t	12/07/93		46100.00	RFI-01019	J	(07-09')
BH-42	ag_t	12/08/93	ND	351.00	RFI-01021		(12-14')
BH-42	al_t	12/08/93		11800000.00	RFI-01021		(12-14')
BH-42	as_t	12/08/93		3590.00	RFI-01021	J	(12-14')
BH-42	ba_t	12/08/93		69000.00	RFI-01021		(12-14')
BH-42	be_t	12/08/93		564.00	RFI-01021		(12-14')
BH-42	ca_t	12/08/93		50500000.00	RFI-01021	J	(12-14')
BH-42	cd_t	12/08/93	ND	234.00	RFI-01021		(12-14')
BH-42	co_t	12/08/93		9320.00	RFI-01021		(12-14')
BH-42	cr_t	12/08/93		15600.00	RFI-01021		(12-14')
BH-42	cu_t	12/08/93		20200.00	RFI-01021		(12-14')
BH-42	fe_t	12/08/93		21600000.00	RFI-01021	J	(12-14')
BH-42	hg_t	12/08/93		25.60	RFI-01021		(12-14')
BH-42	k_t	12/08/93		2680000.00	RFI-01021		(12-14')
BH-42	mg_t	12/08/93		12200000.00	RFI-01021		(12-14')
BH-42	mn_t	12/08/93		587000.00	RFI-01021	J	(12-14')
BH-42	na_t	12/08/93		153000.00	RFI-01021	J	(12-14')
BH-42	ni_t	12/08/93		23000.00	RFI-01021		(12-14')
BH-42	pb_t	12/08/93		9520.00	RFI-01021		(12-14')
BH-42	sb_t	12/08/93		1830.00	RFI-01021	J	(12-14')
BH-42	se_t	12/08/93		147.00	RFI-01021	J	(12-14')
BH-42	tl_t	12/08/93	ND	117.00	RFI-01021		(12-14')
BH-42	v_t	12/08/93		17600.00	RFI-01021	J	(12-14')
BH-42	zn_t	12/08/93		51000.00	RFI-01021	J	(12-14')
BH-42	ag_t	12/08/93	ND	354.00	RFI-01022		(25-27')
BH-42	al_t	12/08/93		13900000.00	RFI-01022		(25-27')
BH-42	as_t	12/08/93		3050.00	RFI-01022	J	(25-27')
BH-42	ba_t	12/08/93		112000.00	RFI-01022		(25-27')
BH-42	be_t	12/08/93		645.00	RFI-01022		(25-27')
BH-42	ca_t	12/08/93		33300000.00	RFI-01022	J	(25-27')
BH-42	cd_t	12/08/93	ND	236.00	RFI-01022		(25-27')
BH-42	co_t	12/08/93		12700.00	RFI-01022		(25-27')
BH-42	cr_t	12/08/93		18600.00	RFI-01022		(25-27')
BH-42	cu_t	12/08/93		22200.00	RFI-01022		(25-27')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-42	fe_t	12/08/93		26600000.00	RFI-01022	J	(25-27')
BH-42	hg_t	12/08/93		24.50	RFI-01022		(25-27')
BH-42	k_t	12/08/93		2690000.00	RFI-01022		(25-27')
BH-42	mg_t	12/08/93		11300000.00	RFI-01022		(25-27')
BH-42	mn_t	12/08/93		449000.00	RFI-01022	J	(25-27')
BH-42	na_t	12/08/93		147000.00	RFI-01022	J	(25-27')
BH-42	ni_t	12/08/93		29600.00	RFI-01022		(25-27')
BH-42	pb_t	12/08/93		11900.00	RFI-01022		(25-27')
BH-42	sb_t	12/08/93		1420.00	RFI-01022	J	(25-27')
BH-42	se_t	12/08/93		335.00	RFI-01022	J	(25-27')
BH-42	tl_t	12/08/93	ND	119.00	RFI-01022		(25-27')
BH-42	v_t	12/08/93		19000.00	RFI-01022	J	(25-27')
BH-42	zn_t	12/08/93		63300.00	RFI-01022	J	(25-27')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	a_bhc	10/14/93	ND	1.84	RFI-00447	UJ	(06-10')
BH-39	a_bhc	10/14/93	ND	1.82	RFI-00449	UJ	(18-20')
BH-39	a_chrldn	10/14/93	ND	1.84	RFI-00447		(06-10')
BH-39	a_chrldn	10/14/93	ND	1.82	RFI-00449		(18-20')
BH-39	aldrin	10/14/93	ND	1.84	RFI-00447		(06-10')
BH-39	aldrin	10/14/93	ND	1.82	RFI-00449		(18-20')
BH-39	b_bhc	10/14/93	ND	1.84	RFI-00447	UJ	(06-10')
BH-39	b_bhc	10/14/93	ND	1.82	RFI-00449	UJ	(18-20')
BH-39	d_bhc	10/14/93	ND	1.84	RFI-00447	UJ	(06-10')
BH-39	d_bhc	10/14/93	ND	1.82	RFI-00449	UJ	(18-20')
BH-39	ddd_44	10/14/93	ND	3.67	RFI-00447		(06-10')
BH-39	ddd_44	10/14/93	ND	3.64	RFI-00449		(18-20')
BH-39	dde_44	10/14/93	ND	3.67	RFI-00447		(06-10')
BH-39	dde_44	10/14/93	ND	3.64	RFI-00449		(18-20')
BH-39	ddt_44	10/14/93	ND	3.67	RFI-00447	UJ	(06-10')
BH-39	ddt_44	10/14/93	ND	3.64	RFI-00449	UJ	(18-20')
BH-39	dieldrin	10/14/93	ND	3.67	RFI-00447		(06-10')
BH-39	dieldrin	10/14/93	ND	3.64	RFI-00449		(18-20')
BH-39	endos_1	10/14/93	ND	1.84	RFI-00447		(06-10')
BH-39	endos_1	10/14/93	ND	1.82	RFI-00449		(18-20')
BH-39	endos_2	10/14/93	ND	3.67	RFI-00447		(06-10')
BH-39	endos_2	10/14/93	ND	3.64	RFI-00449		(18-20')
BH-39	endos_s	10/14/93	ND	3.67	RFI-00447	UJ	(06-10')
BH-39	endos_s	10/14/93	ND	3.64	RFI-00449	UJ	(18-20')
BH-39	endrin	10/14/93	ND	3.67	RFI-00447	UJ	(06-10')
BH-39	endrin	10/14/93	ND	3.64	RFI-00449	UJ	(18-20')
BH-39	endrn_al	10/14/93	ND	3.67	RFI-00447	UJ	(06-10')
BH-39	endrn_al	10/14/93	ND	3.64	RFI-00449	UJ	(18-20')
BH-39	endrn_kt	10/14/93	ND	3.67	RFI-00447	UJ	(06-10')
BH-39	endrn_kt	10/14/93	ND	3.64	RFI-00449	UJ	(18-20')
BH-39	g_bhc	10/14/93	ND	1.84	RFI-00447	UJ	(06-10')
BH-39	g_bhc	10/14/93	ND	1.82	RFI-00449	UJ	(18-20')
BH-39	g_chlrdn	10/14/93	ND	1.84	RFI-00447		(06-10')
BH-39	g_chlrdn	10/14/93	ND	1.82	RFI-00449		(18-20')
BH-39	hept_clr	10/14/93	ND	1.84	RFI-00447	UJ	(06-10')
BH-39	hept_clr	10/14/93	ND	1.82	RFI-00449	UJ	(18-20')
BH-39	hept_epx	10/14/93	ND	1.84	RFI-00447		(06-10')
BH-39	hept_epx	10/14/93	ND	1.82	RFI-00449		(18-20')
BH-39	meth_xcl	10/14/93	ND	18.40	RFI-00447	UJ	(06-10')
BH-39	meth_xcl	10/14/93	ND	18.20	RFI-00449	UJ	(18-20')
BH-39	pcb_1016	10/14/93	ND	40.20	RFI-00447		(06-10')
BH-39	pcb_1016	10/14/93	ND	35.30	RFI-00449		(18-20')
BH-39	pcb_1221	10/14/93	ND	73.50	RFI-00447		(06-10')
BH-39	pcb_1221	10/14/93	ND	72.90	RFI-00449		(18-20')

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS	DEPTH
BH-39	pcb_1232	10/14/93	ND	40.20	RFI-00447		(06-10')
BH-39	pcb_1232	10/14/93	ND	35.30	RFI-00449		(18-20')
BH-39	pcb_1242	10/14/93	ND	40.20	RFI-00447		(06-10')
BH-39	pcb_1242	10/14/93	ND	35.30	RFI-00449		(18-20')
BH-39	pcb_1248	10/14/93	ND	40.20	RFI-00447		(06-10')
BH-39	pcb_1248	10/14/93	ND	35.30	RFI-00449		(18-20')
BH-39	pcb_1254	10/14/93	ND	40.20	RFI-00447		(06-10')
BH-39	pcb_1254	10/14/93	ND	35.30	RFI-00449		(18-20')
BH-39	pcb_1260	10/14/93	ND	40.20	RFI-00447		(06-10')
BH-39	pcb_1260	10/14/93	ND	35.30	RFI-00449		(18-20')
BH-39	toxaphen	10/14/93	ND	173.00	RFI-00447		(06-10')
BH-39	toxaphen	10/14/93	ND	171.00	RFI-00449		(18-20')

ND = Compound Not Detected

RFI: 0003008.RM

THIS PAGE INTENTIONALLY LEFT BLANK

Appendix I

Chemical Data from Locations ST-22, ST-23, and ST-24

THIS PAGE INTENTIONALLY LEFT BLANK

LOCATION	PARAMETER	SAMP_DATE	RESULT	SAMPLE_ID	FLAGS

NO DATA TO REPORT FOR SSWMU # 9.

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE	RESULT	SAMPLE_ID	FLAGS

NO DATA TO REPORT FOR SSWMU # 9.

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
ST-22	ag_t	09/07/93	ND	714.00	RFI-00214	
ST-22	al_t	09/07/93		17500000.00	RFI-00214	J
ST-22	as_t	09/07/93		9960.00	RFI-00214	
ST-22	ba_t	09/07/93		146000.00	RFI-00214	
ST-22	be_t	09/07/93		807.00	RFI-00214	
ST-22	ca_t	09/07/93		9310000.00	RFI-00214	
ST-22	cd_t	09/07/93	ND	476.00	RFI-00214	J
ST-22	co_t	09/07/93		12200.00	RFI-00214	
ST-22	cr_t	09/07/93		23600.00	RFI-00214	
ST-22	cu_t	09/07/93		24300.00	RFI-00214	
ST-22	fe_t	09/07/93		31400000.00	RFI-00214	J
ST-22	hg_t	09/07/93	ND	184.00	RFI-00214	
ST-22	k_t	09/07/93		3260000.00	RFI-00214	
ST-22	mg_t	09/07/93		6580000.00	RFI-00214	J
ST-22	mn_t	09/07/93		1410000.00	RFI-00214	J
ST-22	na_t	09/07/93		166000.00	RFI-00214	J
ST-22	ni_t	09/07/93		27300.00	RFI-00214	
ST-22	pb_t	09/07/93		20000.00	RFI-00214	
ST-22	sb_t	09/07/93	ND	2860.00	RFI-00214	
ST-22	se_t	09/07/93	ND	234.00	RFI-00214	
ST-22	tl_t	09/07/93	ND	234.00	RFI-00214	
ST-22	v_t	09/07/93		27200.00	RFI-00214	
ST-22	zn_t	09/07/93		236000.00	RFI-00214	J
ST-23	ag_t	09/01/93	ND	540.00	RFI-00151	UJ
ST-23	al_t	09/01/93		9510000.00	RFI-00151	
ST-23	as_t	09/01/93		7500.00	RFI-00151	J
ST-23	ba_t	09/01/93		68500.00	RFI-00151	
ST-23	be_t	09/01/93		420.00	RFI-00151	
ST-23	ca_t	09/01/93		12900000.00	RFI-00151	
ST-23	cd_t	09/01/93	ND	360.00	RFI-00151	
ST-23	co_t	09/01/93		6700.00	RFI-00151	
ST-23	cr_t	09/01/93		13000.00	RFI-00151	
ST-23	cu_t	09/01/93		22500.00	RFI-00151	
ST-23	fe_t	09/01/93		18400000.00	RFI-00151	
ST-23	hg_t	09/01/93	ND	110.00	RFI-00151	
ST-23	k_t	09/01/93		1090000.00	RFI-00151	
ST-23	mg_t	09/01/93		3600000.00	RFI-00151	J
ST-23	mn_t	09/01/93		635000.00	RFI-00151	
ST-23	na_t	09/01/93		122000.00	RFI-00151	
ST-23	ni_t	09/01/93		15100.00	RFI-00151	
ST-23	pb_t	09/01/93		15900.00	RFI-00151	J
ST-23	sb_t	09/01/93	ND	2200.00	RFI-00151	

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE		RESULT	SAMPLE_ID	FLAGS
ST-23	se_t	09/01/93	ND	180.00	RFI-00151	
ST-23	tl_t	09/01/93	ND	180.00	RFI-00151	UJ
ST-23	v_t	09/01/93		16300.00	RFI-00151	
ST-23	zn_t	09/01/93		97900.00	RFI-00151	J
ST-24	ag_t	09/08/93	ND	423.00	RFI-00222	UJ
ST-24	al_t	09/08/93		7660000.00	RFI-00222	
ST-24	as_t	09/08/93		6480.00	RFI-00222	R
ST-24	ba_t	09/08/93		83300.00	RFI-00222	
ST-24	be_t	09/08/93		386.00	RFI-00222	
ST-24	ca_t	09/08/93		19900000.00	RFI-00222	J
ST-24	cd_t	09/08/93	ND	282.00	RFI-00222	
ST-24	co_t	09/08/93		7410.00	RFI-00222	
ST-24	cr_t	09/08/93		12100.00	RFI-00222	
ST-24	cu_t	09/08/93		13100.00	RFI-00222	
ST-24	fe_t	09/08/93		16400000.00	RFI-00222	J
ST-24	hg_t	09/08/93	ND	111.00	RFI-00222	
ST-24	k_t	09/08/93		1220000.00	RFI-00222	
ST-24	mg_t	09/08/93		7250000.00	RFI-00222	J
ST-24	mn_t	09/08/93		670000.00	RFI-00222	J
ST-24	na_t	09/08/93		82600.00	RFI-00222	
ST-24	ni_t	09/08/93		15400.00	RFI-00222	
ST-24	pb_t	09/08/93		10900.00	RFI-00222	
ST-24	sb_t	09/08/93	ND	1690.00	RFI-00222	
ST-24	se_t	09/08/93	ND	141.00	RFI-00222	
ST-24	tl_t	09/08/93		151.00	RFI-00222	
ST-24	v_t	09/08/93		11800.00	RFI-00222	
ST-24	zn_t	09/08/93		105000.00	RFI-00222	J

ND = Compound Not Detected

RFI: 0003008.RM

LOCATION	PARAMETER	SAMP_DATE	RESULT	SAMPLE_ID	FLAGS

LOCATION	PARAMETER	SAMP_DATE	RESULT	SAMPLE_ID	FLAGS

NO DATA TO REPORT FOR SSWMU # 9.

ND = Compound Not Detected

RFI: 0003008.RM

THIS PAGE INTENTIONALLY LEFT BLANK