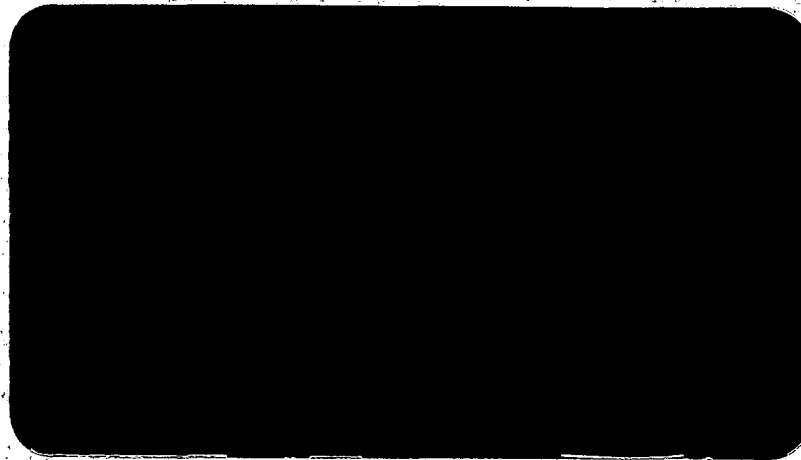


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Contract No. 68-W-98-210

RAC II



*Remedial Response, Enforcement Oversight
and Non-time Critical Removal Activities
at Sites of Release or Threatened Release
of Hazardous Substances in EPA Region II*

CDM

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Division of Environmental Remediation

**Final Screening-level Ecological Risk Assessment
Consolidated Iron and Metals Superfund Site
Remedial Investigation/feasibility Study
Newburgh, New York
Work Assignment No.: 151-RICO-02LT
March 29, 2006**

**Prepared for:
U.S. Environmental Protection Agency
290 Broadway
New York, New York 10007-1866**

**Prepared by:
CDM Federal Programs Corporation
125 Maiden Lane, 5th Floor
New York, New York 10038**

EPA Work Assignment No.	: 151-RICO-02LT
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Contract No.	: 68-W-98-210
CDM Federal Programs Corporation	
Document No.	: 3223-151-RA-ECRA-06011
Prepared by	: CDM FEDERAL PROGRAMS CORPORATION
Site Manager	: Susan Schofield
Telephone Number	: (203) 262-6633
EPA Remedial Project Manager	: Michael Negrelli
Telephone Number	: (212) 637-4278
Date Prepared	: March 31, 2006



125 Maiden Lane, 5th Floor
New York, New York 10038
tel: 212 785-9123
fax: 212 785-6114

March 31, 2006

Mr. Michael J. Negrelli
Remedial Project Manager
U.S. Environmental Protection Agency
290 Broadway - 20th Floor
New York, NY 10007-1866

PROJECT: RAC II Contract No.: 68-W-98-210
Work Assignment No.: 151-RICO-02LT

DOCUMENT NO.: 3223-151-RA-ECRA-06011

SUBJECT: Draft Screening Level Ecological Risk Assessment
Consolidated Iron and Metal Superfund Site
Remedial Investigation/Feasibility Study
Newburgh, New York

Dear Mr. Negrelli:

CDM Federal Programs Corporation (CDM) is pleased to submit two copies of the Draft Screening Level Ecological Risk Assessment Report for the Consolidated Iron and Metal Superfund Site in Newburgh, New York as of Subtask No. 7.2 of the Statement of Work.

Please contact me at (212) 785-9123 or Susan Schofield at (203) 262-6633 if you have questions regarding this submittal.

Sincerely,

CDM FEDERAL PROGRAMS CORPORATION

Jeanne Litwin, REM
Technical Operations Manager

cc: F. Rosado, EPA Region II (letter only)
R. Goltz/PSO File, CDM
S. Schofield, CDM
N. Luke
L. Campbell, CDM
RAC II Document Control

Addressees:

Mindy Pensak
USEPA
2890 Woodbridge Ave. - MS103
Edison, NJ 08837-3679
(732-321-6705)

Reyhan Mehran
NOAA/USEPA
290 Broadway - 18th Floor
New York, NY 10007-1866
(212-637-3257)

Steve Ferreira
USEPA
290 Broadway - 25th Floor
New York, NY 10007-1866
(212-637-3759)

John Cantilli
USEPA
290 Broadway - 24th Floor
New York, NY 10007-1866
(212-637-3810)

Chuck Merckel
USFWS
3817 Luker Road
Cortland, NY 13045
(607-753-9334)

Kristen Kulow
New York State Department of Health
28 Hill Street, Suite 201
Oneonta, NY 13820-9804
(607-432-3911)

Wayne Mizerak (3 copies)
NYSDEC
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7017
(518-402-9657)

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Acronyms and Abbreviations

AWQC	ambient water quality criteria
BAF	bioaccumulation factor
BCF	bioconcentration factor
BEHP	bis(2-ethylhexyl)phthalate
BERA	baseline ecological risk assessment
bgs	below ground surface
CCC	criterion continuous concentration
CDM	CDM Federal Programs Corporation
CIM	Consolidated Iron and Metal
COPC	chemical of potential concern
DESA	Division of Environmental Science and Assessment
EPA	United States Environmental Protection Agency
ERA	ecological risk assessment
ERAGS	Ecological Risk Assessment Guidance for Superfund
ERT	Emergency Response Team
ESL	ecological screening level
ESV	ecological screening value
FS	feasibility study
HQ	hazard quotient
HRS	Hazard Ranking System
HWSB	Hazardous Waste Support Branch
K _{ow}	octanol/water partitioning coefficient
mg/kg	milligram per kilogram
mg/L	milligram per liter
NOAA	National Oceanic and Atmospheric Administration
NPL	National Priorities List
NYSDEC	New York State Department of Environmental Conservation
ORNL	Oak Ridge National Laboratory
P	octanol/water partitioning coefficient
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PEL	probable effects level
RAC	Response Action Contract
RCRA	Resource Conservation and Recovery Act
RI	remedial investigation
SCEM	site conceptual exposure model
SCST	Superfund Contract Support Team
SLERA	screening-level ecological risk assessment
SPDES	State Pollutant Discharge Elimination System
START	Superfund Technical Assessment and Response Team
SVOC	semivolatile organic compound
TEC	threshold effect concentration
TEL	threshold effects level
the site	the Consolidated Iron and Metal Superfund Site
TOC	total organic carbon

USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
VOC	volatile organic compound
W1	waterfront mixed use
$\mu\text{g/kg}$	microgram per kilogram
$\mu\text{g/L}$	microgram per liter

Section 1

Introduction

CDM Federal Programs Corporation (CDM) received Work Assignment Number 151-RICO-02LT under the United States Environmental Protection Agency (EPA) Response Action Contract (RAC) II program to perform a screening level ecological risk assessment (SLERA) as part of remedial investigation/feasibility study (RI/FS) for the Consolidated Iron and Metal (CIM) Superfund site (the site) in Newburgh, New York. The overall purpose of this work assignment is to investigate the nature and extent of site-related contamination and to develop and evaluate remedial alternatives. Specifically, this SLERA addresses the ecological risks associated with the site.

The objective of this SLERA is to identify, qualitatively and quantitatively (where appropriate), the potential current and future environmental risks associated with the site that would exist if no remedial action is taken. Conservative assumptions were used in this SLERA to indicate which contaminants and exposure pathways present at the site may present ecological risks.

This report was prepared in accordance with EPA's *Ecological Risk Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments* (ERAGS) (1997). This SLERA assesses the ecological risks that may result from releases of and exposures to site-related contaminants. Because this is a screening level assessment, conservative assumptions were used at this stage of the ecological risk assessment (ERA) process to evaluate the potential for local ecological receptors to be adversely affected by exposure to site-related contaminants.

A four-step process is utilized to assess site-related ecological risks for a reasonable maximum exposure scenario:

- *Problem Formulation* – The planning stage of the SLERA includes a qualitative evaluation of contaminant release, migration, and fate; identification of chemicals of potential concern (COPCs), receptors, exposure pathways, and known ecological effects of the contaminants, and selection of endpoints for further study.
- *Exposure Assessment* – A quantitative evaluation of contaminant release, migration, and fate; characterization of exposure pathways and receptors; and measurement or estimation of exposure point concentrations.
- *Ecological Effects Assessment* – Literature reviews, field studies, and toxicity tests that link contaminant concentrations to effects on ecological receptors.
- *Risk Characterization* – Measurement or estimation of both current and future adverse effects.

The SLERA is composed of these four components as listed in the above order.

Tables and figures are presented at the end of the text. In addition, Appendix A presents letters received from the United States Fish and Wildlife Service (USFWS) and the Natural Heritage Program of the New York State Department of Environmental Conservation (NYSDEC) regarding the rare, endangered, and threatened species on site and in the vicinity of the site. Appendix B provides analytical results of surface soil, surface water, and sediment samples included in the SLERA.

1.1 Site Location

The site is an inactive car and scrap metal junk yard located at the end of Washington Street, in Newburgh, Orange County, New York. The site is bounded by a boat marina to the north, Conrail railroad tracks and South Water Street to the west, an inactive municipal incinerator and an active wastewater treatment plant to the south, and the Hudson River to the east. Figures 1-1 and 1-2 show the site location and site layout, respectively.

1.2 Site History

From World War I until the early 1940s, the Eureka Shipyard operated at the CIM site. Scrap metal recycling and storage operations occurred at the site for approximately 40 years before the facility's closure (Weston 2000a). A smelter operated on site between 1975 and 1995 and was used primarily to melt aluminum-containing material, including, but not limited to, transmissions to produce a reusable aluminum product. Other metallic materials also were smelted, creating a lead-contaminated ash and slag by-product. Other site operations included sorting ferrous and non-ferrous metal scrap for recycling, including automobile batteries.

Historical aerial photographs taken since the mid-1940s show that standing liquids have occupied large areas of the CIM site (Weston 2000a). Throughout the past 40 years, the site has been covered with piles of debris, scrap metal, numerous small and large mounds of dark-toned and light-toned materials, and numerous areas of dark-stained soil. From approximately 1960 to 1980, the area of land on which the CIM facility operated increased by approximately 25 percent, as fill material was added to the Hudson River along the property's shoreline. Throughout the photo period, intermittent surface drainage pathways across the site were noted that appeared to discharge to the Hudson River, and were associated with discharge plumes visible in the river waters. During the late 1990s, the site operator constructed a surface water impoundment on the northeastern portion of the site with a berm of waste material along its eastern side.

From 1997 to 1999, NYSDEC and EPA conducted several inspections at the site. Oil-stained soils and puddles with oil sheens were observed on site. In addition, an unpermitted storm water discharge to the Hudson River and an improperly constructed berm were noted. An oil sheen was observed by NYSDEC personnel on the storm water discharge and on the river. An unknown number of underground storage tanks (USTs) were noted to exist on site. The southern portion of the site was covered by more than 5,000 tires.

Numerous violations were cited by NYSDEC, including, but not limited to, not notifying EPA of its Resource Conservation and Recovery Act (RCRA) status. In addition, the site owner was in violation because of a failure to remove and legally dispose of the tire piles.

Between 1998 and 1999, EPA's Hazardous Waste Support Branch (HWSB), Superfund Contract Support Team (SCST) and Region II Superfund Technical Assessment and Response Team (START) sampled waste piles, soils, and river sediment, analyzed by Region II's Division of Environmental Science and Assessment (DESA) laboratory, to delineate the horizontal and vertical extent of contamination.

The New York State Attorney General prosecuted CIM for various violations, including illegal discharge to surface water without a State Pollutant Discharge Elimination System (SPDES) permit. A settlement was reached in late 1999 in which CIM agreed to remove certain materials and cease operations.

A Hazard Ranking System (HRS) package was prepared in December 2000 by EPA Region II (Weston 2000b). CIM was added to the National Priorities List (NPL) June 14, 2001.

1.3 Waste Disposal Practices and Potential Sources

The source of site contamination is suspected to be the result of past improper metal waste handling and processing activities on the property. There is documentation that during the past decades, scrap metal containing hazardous substances and wastes was stored in piles. In addition, discharge of site-derived contaminated storm water to the Hudson River was observed (Weston 2000a). On site source areas included an ash and slag pile generated by the former aluminum smelting operation, located on the southwestern portion of the site, and a former processed soil pile located on the northeastern portion of the site, east of the office building. The former processed soil pile was left from an effort to reclaim metals from the soil. Both contaminated waste piles were removed by EPA for off site treatment and landfilling subsequent to 1998. Limited surface and subsurface soil sampling at the former ash and soil pile locations indicated that the soils beneath the former piles had been impacted. Previous site inspections also noted oil-stained surface soils, oily sheens on puddles throughout the facility, and oily sheens on the Hudson River adjacent to the site.

The contaminants that were routinely released to the surface at the facility impacted surface and subsurface soils. Some soluble contaminants also migrated vertically down through the vadose zone until they intercepted groundwater at the water table, at an estimated depth of approximately 5 to 10 feet below the ground surface (bgs). The predominant eastwardly groundwater flow would have promoted the migration of contaminants eastward, discharging directly into the Hudson River.

Prior to the RI, EPA, NYSDEC, the City of Newburgh, and CDM personnel observed site conditions and the surrounding area. Evidence was present of past poor waste management practices, including stained soil, free-phase petroleum liquid in an open

well, and improper storage of tires. In addition, two large excavations were observed along the western side of the site, west of the former scrap metal processing and smelting equipment. Several USTs were removed in the late 1990s. The USTs likely stored fuel oil for the process equipment when the facility was active. The size of the excavations suggested the USTs had a capacity of at least 5,000 gallons.

In September 2003, Weston Remedial Services, under contract to EPA's Emergency Response Team (ERT), conducted clearing activities at the site. Removal activities included building demolition and removal of tires, scrap metal, concrete, soil piles, and wood debris for recycling. During demolition of the metal shear building, standing liquid (including unknown oils) was removed. Subsequently, a second sub-basement of the building was discovered. Approximately 28,000 gallons of liquid was pumped from the two basements and disposed off site.

1.4 Current Conditions

The site is an inactive car and scrap metal junk yard located at the end of Washington Street, in Newburgh, Orange County, New York. The only building remaining on site is the former garage, which is empty. Building foundations remain from the former office, metal shear, compactor bailer, and smelter buildings. The former metal shear building foundation contains a sub-basement, which is currently covered by metal plates to prevent access. The former compactor/bailer building foundation is currently open and filled with rain water; the foundation is currently surrounded by orange fencing to prevent entrance. Two pits remain along the western side of the site from UST removal activities. The site drainage direction is northeast, toward the Hudson River. A storm water retention basin on the northeastern portion of the site was constructed by EPA contractors; the berm surrounding the basin is comprised of site-derived soils. The retention basin was constructed to intercept storm water flowing toward the river, preventing direct discharge to the Hudson River. A small pile of debris with tires, left over from removal activities, is located in the southern part of the site. Rip-rap and vegetation, in the form of trees and shrubs, are present on the eastern border of the site, along the Hudson River.

1.5 Land Use

According to the 2000 census data for Newburgh, the population increased from 26,454 in 1990 to 28,259 in 2000, a 6.8 percent growth. This population gain exceeded the growth rate of the state (5.5 percent), but lagged the Orange County growth rate of 11.0 percent and the US growth rate of 13.1 percent.

In 1997, the area had 2,782 establishments in operation, including 1,173 firms in the services sector, 617 retail operations, 282 construction firms, and 165 wholesale establishments. By 2000, the area lost 7.5 percent of the total businesses. The number of construction firms decreased by almost one-quarter over this period, despite a relatively robust economy. According to the City of Newburgh tax assessor's office, the CIM property is zoned Waterfront Mixed Use (W1).

Section 2

Screening-Level Problem Formulation

An important goal of the SLERA is to identify and describe onsite conditions stemming from releases of site-related chemical contaminants that can result in adverse effects to present or future ecological receptors.

The problem formulation phase of the SLERA establishes the goals and describes the scope and focus of the assessment. This phase of the SLERA also considers site-specific regulatory and policy issues and requirements, and develops risk questions that will form the basis of the SLERA. Problem Formulation also preliminarily identifies stressors, receptors, exposure pathways, assessment endpoints, and measurement endpoints.

One major outcome of problem formulation is the site conceptual exposure model (SCEM), which describes potential exposure pathways and reveals the potential or likely relationships between stressors, receptors, assessment endpoints, and measurement endpoints. Each of these components is discussed below.

2.1 Environmental Setting

This section presents the site's environmental setting, including descriptions of the site location, the ecological habitats, vegetative communities, threatened and endangered species, and wildlife observations.

2.1.1 Site Description

The site is an inactive car and scrap metal junk yard located at the end of Washington Street, in Newburgh, Orange County, New York. The site is bounded by a boat marina to the north, Conrail railroad tracks and South Water Street to the west, an inactive municipal incinerator and an active wastewater treatment plant to the south, and the Hudson River to the east.

The site lies in the Lower Hudson Valley, on the west bank of the Hudson River, and is approximately 500 feet east of the central business district of Newburgh. The site is located on an area of relatively low topographic relief known as the Hudson-Champlain Lowlands of eastern New York. The Taconic Mountains are to the east, across the Hudson River; the Catskill Mountains are to the northwest; and the northern extension of the Palisades Ridge is to the south.

2.1.2 Habitat and Ecological Receptors

Terrestrial and aquatic habitats are described below. In addition, potential ecological receptors observed during the site reconnaissance are discussed in this section. Potential ecological receptors include the organisms residing in or using the habitats located on site and downgradient of the source area. For the purpose of this SLERA, receptors include the major groups of terrestrial, semi-aquatic, and aquatic plants and animals that may be exposed to site-related contaminants. For the most part, risks to individual receptor species are not evaluated in the SLERA. Major habitat types and biological receptor groups are discussed below.

2.1.2.1 Site Visit

Ecological reconnaissance for field characterization was conducted on August 20, 2004. Information regarding the habitats and biota observed during the site visit is provided below.

2.1.2.2 Terrestrial Habitat and Communities

At the time of the site reconnaissance, the vegetative species at the site mainly were herbaceous, such as poison ivy (*Toxicodendron radicans*), red clover (*Trifolium pratense*), goldenrod (*Solidago* spp.), field garlic (*Allium vineale*), grasses, thistle (*Cirsium* spp.) and Virginia creeper (*Parthenocissus quinquefolia*). In addition to the herbaceous vegetation, shrubs and trees were also observed at the perimeter of the site, including boxelder (*Acer negundo*), honeylocust (*Glenditsia tricanthos*), honeysuckle (*Lonicera* spp.), red maple (*Acer rubrum*), smooth sumac (*Rhus glabra*), staghorn sumac (*Rhus typhina*), sugar maple (*Acer saccharum*), tree of heaven (*Ailanthus altissima*), and willow (*Salix* spp.).

The avian and mammalian wildlife species observed or heard included the American robin (*Turdus migratorius*), American crow (*Corvus brachyrhynchos*), song sparrow (*Melospiza melodia*), gray squirrel (*Sciurus carolinensis*), cottontail (*Sylvilagus floridanus*), and mice. Avian and mammalian species inhabiting or utilizing the site or the vicinity of the site are likely to consist of common species typical of urbanized or disturbed areas in New York State. Thus, other species such as killdeer (*Charadrius vociferus*), house finch (*Passer domesticus*), starling (*Stumus vulgaris*), and shrew (*Sorex* spp.) may also be present in this area. No invertebrates, amphibians, or reptiles were observed during the field characterization, but several types of invertebrates and other less easily observed vertebrates likely occur on site or near the site.

Limited vegetation was observed at the site, which consists primarily of an inactive car and scrap metal junk yard with one unoccupied standing building. Little ecologically useful habitat is present. In addition, the future plan for the site is for residential use; important ecological habitat is also unlikely to exist under the future land use scenario.

2.1.2.3 Aquatic Habitat and Communities

The Hudson River at the site averages approximately one mile in width and supports deep channels, freshwater intertidal mudflats, and freshwater tidal marshes. The river is fringed with both natural and disturbed vegetation within two miles of the area. The river bank consists of anthropomorphic (old jetties, piers, rip-rap, retaining walls, etc.) and natural (tidal mudflats, natural river banks) features. However, anthropomorphic features predominate. Natural vegetation growing along the Hudson River includes trees, shrubs, and herbaceous vegetation. The river is used for transportation and can support fish propagation, fishing, and other recreational activities. No invertebrates, fish, amphibians, or reptiles were reported from this field characterization, but several types of invertebrates and other less easily observed vertebrates likely occur on site or near the site.

2.1.2.4 Rare, Endangered and Threatened Species

Information on the rare, endangered, and threatened species, and ecologically sensitive environments that may exist on and in the vicinity of the site was requested from the USFWS and the Natural Heritage Program of the NYSDEC. Letters received from both USFWS and NYSDEC are included in Appendix A.

The USFWS indicated that one federally endangered species (shortnosed sturgeon, *Acipenser brevirostrum*) and one federally threatened species (bald eagle, *Haliaeetus leucocephalus*) is reported to occur in the vicinity of the site (Appendix A). In addition, the federally endangered Indiana bat (*Myotis sodalis*) was reported to have a hibernaculum approximately 20.7 miles from the site. However, the distance to the hibernaculum and the lack of potential summer roost trees that may be disturbed by site activities indicate that further coordination or consultation with federal agencies with respect to the Indiana bat is unnecessary.

The NYSDEC indicated the following New York State endangered and threatened species are reported to occur within a four mile radius of the site:

- Endangered Fish Species
 - ▶ Shortnose sturgeon (*Acipenser brevirostrum*)
- Endangered Plant Species
 - ▶ American waterwort (*Elatine americana*)
 - ▶ Riverbank quillwort (*Isoetes riparia*)
 - ▶ Seaside goldenrod (*Solidago sempervirens* var. *Mexicana*)
 - ▶ Estuary beggar-ticks (*Bidens hyperborea* var. *hyperborea*)
- Endangered Bird Species
 - ▶ Peregrine Falcon (*Falco peregrinus*)
- Threatened Plant Species
 - ▶ Smooth bur-marigold (*Bidens laevis*)
 - ▶ Heartleaf plantain (*Plantago cordata*)
 - ▶ Spongy arrowhead (*Sagittaria montevidensis* var. *spongiosa*)
 - ▶ Woodland agrimony (*Agrimonia rostellata*)
- Threatened Bird Species
 - ▶ Bald eagle (*Haliaeetus leucocephalus*)
 - ▶ Least bittern (*Ixobrychus exilis*)
 - ▶ Upland sandpiper (*Bartramia longicauda*)
- Rare Plant Species
 - ▶ Estuary beggar-ticks (*Bidens bidentoides*)

None of these species was observed during the ecological reconnaissance of the site.

2.1.2.5 Stressor Identification

This SLERA is focused on the potential adverse ecological effects associated with chemical contamination of environmental media at release areas or downgradient of the site. Although not the focus of the SLERA, physical stressors can also impact ecological receptors and are discussed below.

Physical Stressors

The identification of physical stressors is important for evaluating observed or predicted impacts due to chemical contamination. Shifts in ecological community status (e.g., expected biota not present, or dominance of unexpected species, etc.) might be incorrectly attributed to contamination when, in fact, such findings are due to physical factors. Common and important physical stressors can include habitat loss (e.g., paving over an area), destruction, alteration (e.g., channelization of a creek), or degradation (e.g., siltation of a creek). Such physical stressors are often the primary limiting factors for local ecological receptors. For example, unsuitable habitat will not support diverse and abundant plant, invertebrate, and vertebrate communities regardless of the degree of chemical contamination. On the other hand, optimum habitat conditions will not be supportive of healthy communities if chemical contamination exceeds critical thresholds of magnitude (concentration) and if contaminants are spatially and temporally distributed in a manner hazardous to receptors.

The site is characterized as highly disturbed, with little natural or undisturbed habitat remaining since the site is an inactive car and scrap metal junk yard. The site is mostly surrounded by developed or otherwise disturbed areas, with a boat marina to the north, Conrail railroad tracks and South Water Street to the west, an inactive municipal incinerator and an active wastewater treatment plant to the south, and the Hudson River to the east. Physical stressors are likely important at this site.

2.1.2.6 Potential Ecological Receptors

Based on the contaminants identified as COPCs, the types of taxa considered with the selected ecological screening levels (ESLs), and on the information obtained from the site characterization, the following groups of receptors are identified for this SLERA.

- Terrestrial plants - surface soil exposure
- Terrestrial soil-dwelling invertebrates - surface soil exposure
- Terrestrial mammals and birds - surface soil exposure
- Aquatic benthic macroinvertebrates - sediment exposure
- Fish (and in some cases larval amphibians and aquatic plants) - surface water exposure

Not all of the above listed receptor groups are evaluated for each COPC. This is especially true of surface soil-associated receptors. Since this is the conservative SLERA stage of the ERA, only a single, conservative ESL is selected for each COPC in each exposure media. In some cases, the ESL is based on potential adverse effects to terrestrial plants (soil exposure), while in others, the ESL might be based on effects to

soil invertebrates. In addition, some soil ESLs (e.g., most soil ESLs listed by EPA Region 5) consider bioaccumulation and are based on potential effects to upper trophic level biota, such as the masked shrew.

ESLs for sediment are based on potential adverse effects to benthic macroinvertebrates. ESLs for surface water consider effects to fish, aquatic invertebrates, and for some COPCs, aquatic plants and/or amphibian larvae. For each medium type, the lowest ESL is selected from the list of preferred ESLs, regardless of receptor or receptor group linked to the ESL. ESLs are discussed in more detail in Section 4.

Most of the receptor groups listed above are linked to direct exposures based on direct contact and ingestion of COPC-contaminated media. Indirect or food web effects for upper trophic level receptors, such as birds and mammals, are considered for some COPCs found in surface soil because the lowest soil ESL is based on protection against unacceptable accumulation in upper trophic level receptors. The primary exposure pathway for upper trophic level receptors is the ingestion of COPC-contaminated food or prey. This pathway is generally assessed in a SLERA by using bioaccumulation-based ESLs or in a baseline ecological risk assessment (BERA) using food web modeling. Food web modeling is generally performed if the results of the SLERA indicate that contaminants are present at concentrations and/or locations of concern. In addition to threshold exceedances, the SLERA considers all chemicals in exceedance of screening values for evaluation in the food chain model. Important ecological exposure pathways are discussed below.

2.2 Nature and Extent of Contamination

Potential ecological risks due to contamination of surface soil, surface water, and sediment are evaluated in this SLERA. Risks due to exposure to contaminants in groundwater or subsurface (> one foot) soils are not assessed in this SLERA because exposures to undiluted groundwater or deeper soils are unlikely or are extremely limited for most ecological receptors.

2.2.1 Surface Water

Ten surface water samples, SW-11 through SW-20 (see Figure 2-1) were collected in the Hudson River within about 20 feet of the site. Inorganics were the only class of chemicals detected, including lead and cyanide, which were detected in approximately 20 and 30 percent of samples, respectively. Aluminum, iron, and manganese were detected in 100 percent of samples, at a maximum concentration of 610 micrograms per liter ($\mu\text{g/L}$), 740 $\mu\text{g/L}$, and 60 $\mu\text{g/L}$, respectively. The remaining detected inorganics were calcium, magnesium, and sodium, which are identified as essential nutrients.

2.2.2 Sediment

Ten sediment samples, SD-11 through SD-20 (see Figure 2-1), were co-located with surface water samples from the Hudson River. Five volatile organic compounds (VOCs) were detected, including acetone in 80 percent of samples, 2-butanone in 40

percent of samples, and toluene, chlorobenzene and 1,4-dichlorobenzene in 10 percent of samples. Twenty-six semi-volatile compounds (SVOCs) were also detected in sediment samples, including 17 polycyclic aromatic hydrocarbons (PAHs). Four pesticides were detected, including 4,4'-DDE, 4,4'-DDD, endrin ketone, and endrin aldehyde at a frequency ranging from 11 percent for endrin ketone to 100 percent for 4,4'-DDE. The only detected PCB was Aroclor-1248, in approximately 67 percent of samples and at a maximum concentration of 520 micrograms per kilogram ($\mu\text{g}/\text{kg}$) at SD-11. Twenty-two inorganics were detected in sediment, 16 of which were detected in 100 percent of samples.

2.2.3 Surface Soil (0-2 Feet)

2.2.3.1 Process Area

Twenty-one surface soil samples were collected from the Process Area. Surface soil samples, denoted as PASS-01 through PASS-21 (see Figure 2-2), were collected from 0-2 or 0-12 inches bgs. The samples collected from 0-2 inches bgs are indicated by an S at the end of the sample name, while the samples collected from 0-12 inches bgs have a D at the end of the sample name. Three VOCs, including methylene chloride, 1,4-dichlorobenzene, and 1,2-dichlorobenzene, were detected in surface soil samples collected from the Process Area; however, each was detected in just five percent of samples. Additionally, 25 SVOCs, including 16 PAHs, were detected in surface soil samples from Process Area. Eight pesticides were detected, including 4,4'-DDE in 100 percent, endrin in 95 percent, and heptachlor in 86 percent of samples. The remaining pesticides were detected in less than 44 percent of samples. Four PCBs were detected, including Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260, at a frequency ranging from 19 percent for Aroclor-1242 to 100 percent for Aroclor-1254. A total of 23 inorganics were detected in Process Area surface soil samples. With the exception of selenium and cyanide, all inorganics were detected in 100 percent of samples. Selenium and cyanide were detected in 19 percent and 24 percent of samples, respectively.

2.2.3.2 Non-Process Area

Thirty-seven surface soil samples were collected from Non-Process Area soils. Surface soil samples, denoted as SWSS-01 through SWSS-37 (see Figure 2-2), were collected from 0-2 to 0-12 inches bgs. The samples collected from 0-2 inches bgs are indicated by an S at the end of the sample name while the samples collected from 0-12 inches bgs have a D at the end of the sample name. Fourteen VOCs were detected in soil samples at a frequency ranging from 3 percent for 5 chemicals including styrene to 19 percent for xylenes. Additionally, 27 SVOCs, including 17 PAHs, were detected in Non-Process Area surface soils. Eighteen pesticides also were detected at a frequency ranging from 3 percent for delta-BHC to 61 percent for 4,4'-DDE. Five PCBs were detected, including Aroclor-1016, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260, at a frequency ranging from 3 percent for Aroclor-1242 to 100 percent for Aroclor-1254. A total of 24 inorganics were detected in Non-Process Area surface soil samples. With the exception of sodium, which was detected in 17 percent of samples, all inorganics were detected in at least 65 percent of samples.

2.2.4 Background

Site-specific background values for each chemical were calculated for surface soil, sediment, and surface water by calculating an average concentration of each detected chemical, including the use of one half the detection limits for non-detects. Site-specific background values were not used for screening purposes, but rather for informational purposes only.

2.2.4.1 Surface Water

Ten background surface water samples, SW-1 through SW-10 (see Figure 2-1), were collected upstream of the site to represent background conditions (outside of any influence from the site). The background samples were analyzed for the same parameters as the near-site samples.

2.2.4.2 Sediment

Ten background sediment samples, SD-01 through SD-10 (see Figure 2-1), were co-located with background surface water samples and were collected upstream of the site to represent background conditions (outside of any influence from the site). The background samples also were analyzed for the same parameters as the near-site samples.

2.2.4.3 Soil

CDM collected surface soil samples BKSS-01 through BKSS-10 (see Figure 2-3) from background soil borings located north of the site. Samples collected from 0-2 inches bgs are denoted with an S at the end of the sample name while the samples collected from 0-12 inches bgs have a D at the end of the sample name. The background samples were analyzed for the same parameters as onsite samples.

2.3 Risk Questions

Risk questions summarize important components of the problem formulation phase of the SLERA. Risk questions are directly related to testable hypotheses that can be accepted or rejected using the results of the SLERA. Selected risk questions to be answered in this SLERA include:

- *Are site-related contaminants present in surface soil, sediment, or surface water where ecological receptors may be exposed?*

This question is addressed in the Exposure Assessment phase of the SLERA.

- *Where present, are the concentrations of site-related contaminants sufficiently elevated to impair the survival, growth, or reproduction of sensitive ecological receptors?*

This question is addressed in the Effects Assessment (Section 4) and Risk Characterization (Section 5) phases of the SLERA.

2.4 Preliminary Conceptual Model

This section presents a discussion of the exposure pathways, assessment endpoints, and measurement endpoints.

2.4.1 Exposure Pathways

Exposure pathways indicate how ecological resources can co-occur or come in contact with hazardous chemicals or media such as contaminated sediments. Descriptions of exposure pathways for ecological receptors are presented in the SCEM as shown on Figure 2-4. This figure illustrates contaminant sources, exposure medium, release mechanism, exposure routes, and potential receptors. The exposure pathways shown in Figure 2-4 are considered to be the most significant and are evaluated in this SLERA. Other exposure pathways may exist (e.g., inhalation of volatile organics or dermal contact by soil-dwelling organisms), but these pathways are either insignificant or cannot be quantified. This SLERA focuses on the risks associated with the ingestion and direct contact of site-related chemicals that may have migrated or may be present in surface soils, sediments, or surface waters in downgradient areas.

2.4.2 Endpoints

In SLERAs, assessment endpoints are usually considered to be any adverse effects from site contamination to any ecological receptors at the site. Specific draft assessment endpoints for the site could include the following:

- Protection of aquatic invertebrates and fish from the toxic effects (on survival and growth) of site-related chemicals present in sediment and surface water
- Protection of piscivorous birds to ensure that ingestion of contaminants in surface water, sediment, and prey does not have negative impacts on growth, survival, and reproduction
- Protection of insectivorous birds to ensure that ingestion of contaminants in surface water, sediment, soil, and prey does not have negative impacts on growth, survival, and reproduction
- Protection of herbivorous birds and mammals to ensure that ingestion of contaminants in soil and plants does not have negative impacts on growth, survival, and reproduction
- Protection of omnivorous birds and mammals to ensure that ingestion of contaminants in surface water, sediment, soil, plants, and prey does not have negative impacts on growth, survival, and reproduction
- Protection of carnivorous birds and mammals to ensure that ingestion of contaminants in prey does not have negative impacts on growth, survival, and reproduction

Measurement endpoints are chosen to link the existing site conditions to the goals established by the assessment endpoints and are useful for assessment endpoint evaluation. Measurement endpoints are quantitative expressions of observed or measured biological responses to contamination relevant to selected assessment endpoints. For a SLERA, ESLs are commonly used as measurement endpoints. For this SLERA, measurement endpoints are based on the most conservative ESLs from the sources discussed in Section 3. The measurement endpoints corresponding to the assessment endpoints used in this SLERA are:

- For aquatic organisms: comparison of exposure hazard quotients (HQs) to a reference HQ of one. Exposure HQs are calculated for individual chemicals by dividing the surface water or sediment concentrations by aquatic-based surface water or sediment screening levels.
- For terrestrial organisms: comparison of exposure HQs to a reference HQ of one. Exposure HQs are calculated for individual chemicals by dividing the soil concentrations by terrestrial-based screening levels.

2.5 Selection of Chemicals of Potential Concern

The selection of COPCs is used to narrow the focus of the SLERA. The selection process serves to identify dominant site risks and guides future remediation selection decisions. The selection process used was based on methodology present in ERAGS and the guidance provided in EPA's *Ecological Assessment of Superfund Sites: An Overview*, ECO Update Intermittent Bulletin, Volume 1, Number 2, December 1991 (EPA 1991a). The COPC selection process involves essentially two steps:

- Comparison of detected chemical concentrations to media quality screening levels that are established to protect biota. Chemicals for which screening levels have not been established are retained for further consideration as COPCs. Chemicals for which maximum detected concentrations exceed screening levels are retained as COPCs.
- Comparison of the detected chemicals' physical and chemical properties, specifically in terms of each chemical's bioaccumulation potential, are reviewed. Detected chemicals that possess the ability to bioaccumulate are retained as COPCs.

The potential impacts of contaminated surface soil, sediment, and surface water are evaluated using a screening level approach. This is accomplished by first identifying the COPCs for each medium of concern by comparing maximum detected concentrations of chemicals to conservative screening levels. Chemicals that are retained as COPCs based on comparison of maximum detected concentrations to conservative screening levels are potentially subjected to more in-depth risk estimation.

Selection of COPCs was specific to each medium evaluated in this SLERA (i.e., sediment, surface water, and soil). Therefore, only chemicals with environmental concentrations in media representing potential ecological exposure pathways were considered. Additionally, calcium, magnesium, potassium, and sodium were removed from further consideration as COPCs because they are ubiquitous, occur naturally in high concentrations, and are essential nutrients. Thus, they are not considered to be site-related contaminants. The COPC selection process for this SLERA is further discussed in Sections 3, 4 and 5. Screening tables for the COPC selection are presented in Section 4.

Section 3

Screening-Level Ecological Exposure Assessment

The exposure assessment summarizes and evaluates available exposure data on potential ecological receptors or receptor groups. The primary output of the exposure assessment is an exposure profile that presents the magnitude and distribution of COPCs to which ecological receptors may be exposed. Exposure profiles provide input into the final stage of the SLERA, Risk Characterization.

Exposure profiles describe the (1) chemical properties related to exposure potential for the site COPCs, and (2) the magnitude and distribution (i.e., specific media and geographic distribution) of COPCs identified in the Problem Formulation phase. Following the discussion of chemical properties of COPCs are summaries of exposure concentration data. Finally, exposure information for potential ecological receptors is also discussed in this section. The COPC screening process is provided in Sections 4 and 5. Screening tables for the COPC selection are provided in Section 4.

Exposure Assessment summarizes and evaluates available exposure data on potential ecological receptors or receptor groups. The primary output of the exposure assessment is an exposure profile that presents the magnitude and distribution of COPCs to which ecological receptors may be exposed. At the SLERA stage of the ERA, the magnitude of exposure is conservatively described by the maximum detected COPC concentration. Distribution data related to exposure are limited to identifying the locations associated with the highest levels of contamination. Exposure data for COPCs serve as input into the final stage of risk assessment, Risk Characterization.

Exposure information relevant to ecological risk also includes a discussion of the chemical properties of site-related COPCs that may influence chemical fate and transport. Important properties include bioavailability, bioaccumulation potential, and environmental persistence. Following the discussion of chemical properties of COPCs are summaries of exposure concentration data, followed by exposure information for potential ecological receptors.

3.1 Chemical Properties of COPCs

Table 3-1 identifies the general chemical properties of the classes of chemicals that include the media-specific COPCs for the site. As described in previous sections, COPCs are limited to contaminants that have been detected in surface soil, sediment, and surface water. Groundwater contaminants are not included because ecological receptors will not be exposed to undiluted groundwater. Groundwater is assessed indirectly by assessing the other media that may be affected by groundwater contact or discharge. The general chemical properties (i.e., environmental persistence, bioavailability, and bioconcentration potential) for the major classes of chemicals with identified COPCs are also discussed in this section.

3.1.1 Bioaccumulation Potential

Bioconcentration potential indicates whether a chemical is likely to be retained in biological tissues after it is taken in by ingestion or other means. Retention of chemicals is not in itself an appropriate measurement endpoint unless it is associated with adverse ecological effects. Retention is, however, useful for verifying exposure and for evaluating bioavailability and the potential for food web effects.

Bioaccumulation factors (BAFs) are based on uptake via both food and water, and BAFs are the preferred data for assessing bioaccumulation potential. BAFs are often unavailable for many chemicals, and data on uptake of chemicals through terrestrial systems are especially sparse. For this reason, bioaccumulation is often assessed using aquatic bioconcentration factors (BCFs).

BCFs are derived under equilibrium conditions in the laboratory, and consider only water exposure (not exposure via ingestion of prey). BCFs are based on the ratio of contaminant concentration in aquatic biota to contaminant concentration in water. BCFs are derived under equilibrium conditions and under relatively long exposure durations; therefore, they consider both uptake and elimination (depuration) rates.

BCFs are often used as screening-level data to evaluate bioconcentration potential. This use of BCFs assumes that uptake and accumulation in aquatic systems is related to uptake and accumulation in terrestrial systems. For any given chemical, aquatic BCF values differ from terrestrial BAF values. However, it is assumed that a chemical easily and rapidly accumulated in aquatic systems is also easily and rapidly accumulated in terrestrial systems. For this reason, BCFs can be used to generally assess whether a chemical is likely to be accumulated and concentrated in biological tissues.

BCFs are readily available for fish and some aquatic invertebrates for many inorganic chemicals, especially heavy metals. Experimentally-derived BCF data are also available for many organic chemicals. Where such data are not available, BCFs can be estimated from chemical structure and other specific characteristics.

Organic chemicals with BCFs greater than about 230 generally indicate a significant potential to bioconcentrate (EPA 1991b). This is based on chemical-specific octanol/water partitioning coefficients (P or K_{ow}), where $\log P$ or $\log K_{ow}$ greater than 3.5 (or K_{ow} greater than approximately 3,200) suggests significant potential to bioaccumulate. K_{ow} and BCF are related using the following equation (Zaroogian *et al.* in EPA 1991b):

$$\text{Log BCF} = 0.79 \log P - 0.40$$

Using this equation, $\log K_{ow}$ of 3.5 equates to a BCF of about 230.

Maximum available freshwater BCFs for freshwater fish, as reported by Sample, Opresko, and Suter II (1996) are used to initially (and conservatively) evaluate bioconcentration potential. Several of the maximum fish BCFs identified in Sample,

Opresko, and Suter II (1996) are taken from EPA Ambient Water Quality Criteria (AWQC) documents, which are chemical-specific documents produced mostly in the mid to late 1980s. These documents provide extensive bioaccumulation and toxicity data for a wide variety of toxic chemicals and aquatic receptors. The maximum fish BCF for mercury, listed below, is taken directly from EPA 1985 (Ambient Water Quality Criteria for Mercury - 1984), since Sample, Opresko, and Suter II (1996) do not list a fish BCF for inorganic or total mercury.

The most highly bioaccumulative COPCs identified for one or more media in this SLERA include those listed in Table 3-2. The source of the selected BCF data is also included. Not included in this list are chemicals that are readily metabolized by vertebrates and, therefore, do not accumulate in vertebrates (PAHs). One chemical, bis(2-ethylhexyl)phthalate (BEHP), has a high estimated BCF but is rarely found at elevated concentrations in biological tissues. The bioaccumulation potential is probably overestimated using the $\log K_{ow}$ equation for this compound. Furthermore, BEHP is a common laboratory contaminant, and reported elevated concentrations in surface soils are, therefore, suspect to some degree.

3.1.2 Bioavailability

Bioavailable chemicals are defined as those that exist in a form that has the ability to cause adverse ecological effects or bioaccumulate. As stated previously, bioaccumulation may not in itself constitute a significant ecological effect, but provides important evidence of both exposure and potential for causing adverse effects to multiple trophic levels under certain conditions. For example, some lipophilic chemicals, such as DDT, are taken up by biota and are stored in fatty tissues with no apparent ill effects. However, under stressful conditions, such as during winter when only poor quality foods are available, these fats are metabolized and the contaminants can then cause adverse effects.

Chemical properties (e.g., degree of chlorination, valence state) or environmental conditions (e.g., high levels of total organic carbon [TOC]) can affect the potential bioavailability and toxicity of many organic chemicals, including PCBs, DDT and its metabolites, and many other pesticides and herbicides. The bioavailability and, therefore, toxicity of some organic chemicals in surface soils and sediments can be influenced by the specific characteristics of the soil and sediment. For some contaminants, chemical form, and thus toxicity, can change rather rapidly under changing environmental conditions (e.g., fluctuations in pH or other conditions related to seasonal conditions, such as snow melt). For the most part, however, the bioavailability (and potential toxicity) of many of the most hazardous contaminants, such as pesticides and PCBs, is expected to remain stable because these chemicals bind strongly to organic particulate matter.

Measurements of TOC in soil and sediment can be used to generally describe the bioavailable portion of many organic chemicals. Higher levels of TOC in soil and sediment reduce bioavailability, and thus toxicity, due to binding of contaminants with organic carbon. Site sediment TOC concentrations range from 12,000 to 64,000

milligrams per kilogram (mg/kg) (1.2 to 6.4 percent), with a mean value of 3.99 percent. TOC concentrations in soil samples taken from the site average 3.5 percent. These TOC values are within the commonly observed range of 1 to 10 percent, and are similar to the five percent default value often applied to sediments and soils for which TOC data are not measured.

Similarly, chemicals found in surface waters can vary with regard to bioavailability and toxicity depending on chemical form and water quality characteristics. Factors affecting contaminant bioavailability and toxicity in surface water can include hardness (primarily calcium and magnesium concentrations), alkalinity, salinity, temperature, dissolved oxygen, total dissolved solids, suspended particulates, and organic carbon.

Of these, hardness (measured as calcium carbonate or CaCO_3) is most important for affecting the toxicity of certain metals (cadmium, trivalent chromium, copper, lead, nickel, silver, and zinc). Higher hardness levels in surface water decrease bioavailability and toxicity of these metals. The hardness of surface water samples taken from the Hudson River adjacent to the site averages 118 milligram per liter (mg/L), with a range of 110 to 130 mg/L.

Organic carbon content and the presence of particulates in surface water can substantially affect the bioavailability and toxicity of many organic contaminants. Increases in organic carbon and particulates in surface water reduce the bioavailability of some organic chemicals.

Low pH values can increase the bioavailability of metals. The pH of site surface water samples averaged 8.1, with a range of 7.7 to 8.2. The other factors listed above can also affect the toxicity of inorganic and organic chemicals in surface water to varying degrees.

3.1.3 Environmental Persistence

Some chemicals can persist in the environment because they are not easily degraded or metabolized. Others are short-lived because they can be degraded by one or more mechanisms, including microbial degradation, photolysis, and volatilization. Many of the COPCs identified here are considered persistent because they are not easily degraded by microbial or other processes. Others, primarily VOCs, are considered non-persistent because they are easily and rapidly degraded by a variety of environmental processes. The half lives of these COPCs generally range from hours to days (Canadian Council of Ministers of the Environment 2003), but under certain conditions or in media such as groundwater, persistence can be increased. Persistence is assumed to be low for VOCs in the media of concern for this SLERA (surface soil, sediment, and surface water). The persistence of most SVOCs, especially higher molecular weight PAHs, pesticides, PCBs, and inorganics, is considered high.

3.2 Magnitude and Distribution of COPCs

Recently collected data considered usable for risk assessment purposes are used to describe the magnitude and distribution of chemical contaminants in relevant media at the site. Although no single concentration value can truly represent the variability of chemical concentrations measured in each medium of concern, EPA guidance (1997) for conducting SLERAs recommends using the maximum detected value of each chemical to initially assess risk.

Maximum detected concentrations of the chemical for each medium of concern are presented in Tables 4-1 through 4-4 presented in Section 4. Following EPA guidance, if the maximum detected concentration of a chemical exceeds the selected screening level concentration, then a potential for adverse ecological effects may exist. Information on the locations where the maximum concentration of each chemical was measured, by medium, and the frequency of detection (percent) for each chemical detected is also provided in the tables presented in Section 4.

3.3 Exposure and Potential Receptors

Exposure-related information for the representative groups of organisms previously identified as potential receptors for this SLERA are described in this section. These descriptions are based on likely exposure scenarios preliminarily identified in the SCEM (see Figure 2-4) developed in the Problem Formulation phase of the SLERA. These preliminary exposure scenarios are summarized in Table 3-3 for the major representative receptor groups. The receptor groups represent organisms with reasonable potential to be exposed to site-related stressors. Exposure scenarios are simplified descriptions of how potential receptors or representative receptor groups may come in contact with contaminants.

Some organisms or representative groups of organisms can be exposed to contaminants by direct uptake (e.g., terrestrial plants) or by ingestion of contaminated media and/or prey. The primary route of exposure for most lower trophic level organisms (e.g., plants, soil and sediment invertebrates) is by direct contact and, to a lesser degree, ingestion of contaminated media. Other potential routes of exposure are presented in Table 3-3, but these are not equal with regard to likelihood of occurrence or significance. Because of the high bioaccumulation potential of some chemicals detected in one or more media, ingestion of food (e.g., plants) or prey (i.e., animals) is also considered an important exposure pathway for this site.

3.4 Exposure Scenarios

Although several potential exposure scenarios can be identified for ecological receptors, it is most appropriate to focus the assessment on critical exposure scenarios or those most likely to contribute to risk. This SLERA is, therefore, focused on the most critical exposure scenarios identified in the SCEM. For example, the air pathway (i.e., inhalation of potentially contaminated air) is rarely considered significant for ecological receptors, and ecotoxicity data based on inhalation are largely unavailable.

This pathway is, therefore, not assessed. Significant exposure scenarios identified for this SLERA are discussed below.

3.4.1 Aquatic Exposures

The primary site-related risks for aquatic organisms are likely to be from direct contact with and ingestion of surface water, sediment, and/or sediment pore water contaminated with site-related chemicals. Surface water habitats do not occur on site, and the only surface water body thought to be impacted by the site is the Hudson River adjacent to the site. This assessment evaluates risks to representative aquatic receptors by comparing maximum measured contaminant concentrations in surface water and sediments (from the Hudson River adjacent to the site) to chemical-specific surface water and sediment ESLs.

3.4.2 Terrestrial Exposures

Many types of avian and terrestrial wildlife species with potential to occur within the region (e.g., migratory birds) are unlikely to frequent the source area, where habitat suitability is marginal. Wide-ranging and migratory species may occasionally use the site but none are expected to occur on site frequently or for long durations. Other forms of terrestrial receptors, especially those with small home range or those with limited mobility, may utilize various locations within the study area where suitable habitats are available. Exposures to site-related contaminants for terrestrial species are, therefore, likely to vary substantially, depending on home or foraging range, mobility, habitat preferences, and the suitability of available habitat.

Risks associated with contaminated surface soils are assessed by comparing chemical concentrations in surface soils to chemical-specific ESLs for soil. Most of these ESLs are focused on potential adverse effects in terrestrial plants and soil-dwelling invertebrates. Others consider bioaccumulation and food web effects on upper trophic level receptors. Terrestrial plants are exposed via direct contact with and uptake of soil contaminants. Soil-dwelling invertebrates are primarily exposed via direct contact with and ingestion of soil contaminants. Upper trophic level terrestrial receptors (e.g., birds and mammals) can be exposed via direct contact with and ingestion of both soil and food items.

Section 4

Screening-Level Ecological Effects Assessment

An effects assessment includes an evaluation of data sources and data types, and presents media-specific and chemical-specific ESLs that serve as effects concentrations for the SLERA.

4.1 Literature-Based Effects Data

This section of the SLERA describes and provides support for the sources and types of effects data (e.g., surface water, sediment, and soil screening levels) selected for use in the SLERA. For a SLERA, sediment effects data are limited to screening levels or benchmark concentrations. Other less conservative benchmark concentrations (e.g., toxicity values from laboratory studies) are more appropriate for estimating risks if screening levels are exceeded by the maximum detected concentrations of COPCs, a step performed in a BERA.

The COPC-specific screening levels are presented in Table 4-1 for surface water, Table 4-2 for sediment, Table 4-3 for surface soil in the Process Area, and Table 4-4 for surface soil in the non-process areas. The sources of selected screening levels for the chemicals identified in Tables 4-1 through 4-4 as preliminary COPCs include the following, in order of preference within each medium type.

4.1.1 Surface Water

- Surface Water Quality Standards and Guidance Values for the protection of fish propagation and protection of wildlife (NYSDEC 1998). (Note, for hardness dependent values, the lowest site-specific hardness [i.e., most conservative] value of 110 mg/L was used.)
- National Recommended Water Quality Criteria, Criterion Continuous Concentration (CCC) (EPA 2002a)

4.1.2 Sediment

- Threshold effects level (TEL) and probable effects level (PEL) (Smith *et al.* 1996)
- Consensus based threshold effect concentrations (TECs) (MacDonald *et al.* 2000)
- Freshwater sediment TELs (Buchman 1999)
- Benthic aquatic life chronic toxicity sediment criteria and wildlife bioaccumulation sediment criteria (NYSDEC 1999). (Note, for TOC dependent values, the lowest site-specific TOC [i.e., most conservative] value of 12,000 mg/kg or 1.2 percent was used.)

4.1.3 Soil

- EPA Region 5 ESLs (EPA 2003)
- Oak Ridge National Laboratory (ORNL) soil phytotoxicity screening values (Efroymson *et al.* 1997a)
- ORNL soil microorganisms screening values (Efroymson *et al.* 1997b)
- ORNL soil earthworm screening values (Efroymson *et al.* 1997b)
- Residential/parkland uses soil values (CCME 2003)
- EPA Region 4 Ecological Screening Values (ESVs) (EPA 2002b)

4.2 Summary of COPCs

Chemicals with maximum detected values above their respective selected ESLs were identified as COPCs. The identified COPCs for surface water, sediment, surface soil in the Process Area and in the non-process area are summarized in Table 4-5. Detailed discussion of the identified COPCs is presented in Section 5.

Section 5

Screening-Level Risk Characterization

Risk characterization integrates information from the exposure and effects assessments to estimate risks to representative ecological receptors. This SLERA relies on the HQ approach, supplemented by site observations, to assess ecological risks at this site.

5.1 Hazard Quotient Approach

The HQ approach for estimating risk is based on the ratio of a selected exposure concentration to a selected benchmark or effects concentration. The general equation is as follows: HQ equals exposure concentration of COPC divided by effects concentration of COPC.

More specifically, the HQ calculations for this SLERA are based on the following: HQ equals maximum detected concentration of COPC in media divided by the most conservative (i.e., lowest available) ESL.

Following EPA guidance for conducting SLERAs (EPA 1997), the maximum detected COPC concentration in surface water, sediment, or surface soil serves as the exposure concentration. The COPC- and media-specific screening level serves as the effects concentration. The comparison of these two values allows for calculation of the HQ, which in turn is used to quantify risk estimation. HQs greater than 1.0 indicate a potential for adverse effects. HQs less than 1.0 are considered insignificant and adverse effects are unexpected.

Higher HQs are not necessarily indicative of more severe effects because of varying degrees of uncertainty in the benchmarks used to calculate HQs. Where confidence in benchmarks is equal, higher HQs suggest a greater likelihood of adverse effects.

5.2 HQ-Based Risk Estimates

The reliability of HQs to predict actual risks is dependent on the quality of the exposure and effects concentrations used to calculate HQs. There is greater confidence in HQ-based risk estimates when exposure and effects data are based on large databases reflecting extensive sample collection (exposure data) and toxicological information (effects data). The media quality data collected on site provides adequate confidence in the ability of detected COPC concentrations to represent actual onsite conditions relative to chemical contamination.

Similarly, screening levels based on a large toxicity database comprised of a wide variety of organisms are preferred over concentrations from a limited database or those not directly linked to adverse effects. Confidence in screening levels are COPC-specific, but for the most part, there are greater uncertainties with the soil screening levels than with the sediment and surface water screening levels. As discussed previously, all screening levels are biased towards over-protection, and it is, therefore, unlikely that risks are under-estimated using these conservative screening levels.

HQs are derived using the comparisons discussed previously, where maximum detected COPC concentrations are compared to conservative screening levels. Media- and COPC-specific HQs are presented in Tables 4-1 through 4-4.

5.2.1 Surface Water Risks

The screening-level evaluations for the surface water are shown on Table 4-1. COPCs identified are also presented in Table 4-1.

Eight inorganics (aluminum, calcium, cyanide, iron, lead, magnesium, manganese, and sodium) were detected in the surface water samples. As discussed in Section 2.5, the inorganics calcium, magnesium, and sodium were not retained for further consideration as they are essential nutrients or electrolytes. Cyanide was eliminated because the conservative screening level HQ was below one. One inorganic (manganese) was retained because no ESL was available. Three inorganics (aluminum, iron, and lead) were retained because they had HQs above one. Aluminum and iron were detected in all (10 of 10) surface water samples, while lead was detected in only 2 of 10 (20%) samples.

These risk estimates are probably very conservative (over-estimated) for several reasons. Aluminum and iron are rarely toxic at near neutral pH levels, and the pH of the Hudson River samples averaged 8.1 units, slightly above neutral. Aluminum and iron toxicity are of most concern in acidic waters (pH <5.5). Aquatic toxicity data for iron are very sparse, and the ESL for iron in water (300 µg/L) is very conservative, well below the EPA chronic value for iron in surface water (1,000 µg/L).

The maximum detected concentration of lead in surface water (12 µg/L) exceeds the hardness-adjusted ESL of 2.79, but is not highly elevated relative to commonly observed levels in surface water. In addition, the lowest measured hardness value (110 mg/L) is used to adjust the lead standard. This conservative step results in a very low ESL for lead in surface water. Finally, the surface water ESL for lead is based on the dissolved concentration, yet the maximum measured value in Hudson River surface water is based on total recoverable lead. Lead is among the least soluble of the potentially toxic heavy metals, and the dissolved fraction is unlikely to be the dominant fraction in surface water.

In summary, none of the surface water COPCs is considered a major source of site-related risk to ecological receptors.

5.2.2 Sediment Risks

The screening-level evaluations for sediment samples are shown on Table 4-2. COPCs identified are also summarized in Table 4-5.

Five VOCs, 26 SVOCs (including 16 PAHs), 4 pesticides, 1 Aroclor, and 22 inorganics were detected in the sediment samples. Two VOCs were retained because of the lack of an ESL. Three VOCs were eliminated because the HQs were below one. All detected SVOCs were retained. Six SVOCs were retained because no ESL was

available. Bis(2-ethylhexyl) phthalate and 2-methylnaphthalene were retained due to HQs over one. All PAHs were also retained since either no ESL was available or the HQs were over one. The total PAH calculation also exceeded the ESL, yielding an HQ of 132.9 at sample location SD-19. PAHs have the potential to significantly bioaccumulate in benthic invertebrates but vertebrates have the ability to eliminate PAHs, thereby preventing significant bioaccumulation. Risks to vertebrate consumers of PAH-contaminated invertebrates, therefore, are not likely to be significant.

Two pesticides (4,4'-DDD and 4,4'-DDE) were retained because of HQs over one while two other pesticides (endrin aldehyde and endrin ketone) and one Aroclor (Aroclor-1248) were retained because ESLs were not available from any of the preferred sources. The total DDT HQ was above one, at 3.44. The pesticide with the highest HQ was 4,4'-DDD with a value of 3.1 at sample location SD-17. These pesticides have a high potential to bioaccumulate in the upper trophic-level ecological receptors.

Calcium, magnesium, and potassium were not retained for further consideration as they are essential nutrients or electrolytes. Eight inorganics (aluminum, barium, cobalt, cyanide, iron, selenium, thallium, and vanadium) were retained because no chemical specific ESLs were available. Eleven inorganics with HQs greater than one (antimony, arsenic, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, and zinc) were retained. The inorganic with the highest HQ was copper, with a value of 163 at sample location SD-17. Cadmium has a high potential to bioaccumulate in upper trophic-level ecological receptors, while copper and zinc have a moderate to high potential to bioaccumulate.

Sediment COPCs retained include 2 VOCs, 26 SVOCs (including 16 PAHs), 4 pesticides, 1 Aroclor, and 19 inorganics. These COPCs are summarized in Table 4-5.

5.2.3 Surface Soil Risks

5.2.3.1 Process Area

The screening-level evaluations for the Process Area surface soil are shown on Table 4-3. COPCs are summarized in Table 4-5.

Three VOCs, 25 SVOCs (including 15 PAHs), 8 pesticides, 4 Aroclors, and 23 inorganics were detected in the soil collected in the process area of the site (see Figure 2-2). Two VOCs (1,4-dichlorobenzene and methylene chloride) were eliminated because HQs were below 1 and they were only detected in 1 of 21 samples, for a detection frequency of 4.8 percent. One VOC (1,2-dichlorobenzene) was also eliminated because of a low detection frequency (4.8 percent).

Two SVOCs (benzaldehyde and caprolactam) were eliminated due to a detection frequency of 4.8 percent. Three SVOCs (dimethylphthalate, di-n-butylphthalate, and 2-methylnaphthalene) were eliminated with HQs below one. Carbazole, dibenzofuran, and di-n-octylphthalate were retained because no ESLs were available.

Bis(2-ethylhexyl) phthalate and butylbenzylphthalate were also retained because of high HQs (78.8 and 39.7 respectively).

Acenaphthene and benzo(g,h,i)perylene were the only PAHs eliminated due to HQs below one. The other 13 PAHs (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were retained due to high HQs. The total PAH calculation also exceeded the ESL, with an HQ of 256.7 at sample location PASS-04-D.

Two pesticides were eliminated from further consideration in the ecological risk assessment process: Alpha-BHC, due to a low detection frequency of 4.8 percent and heptachlor epoxide because of an HQ below one. The other six detected pesticides (4,4'-DDE, 4,4'-DDT, endosulfan sulfate, endrin, heptachlor, and methoxychlor) were retained with HQs above one. The four detected Aroclors (Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260) were also retained because no ESLs were available. The total DDT and total PCB HQs were extremely high, at 1,768 and 208,630, respectively. Pesticides and PCBs have a high potential to bioaccumulate in the upper trophic-level ecological receptors. Aroclors detected in more than 70 percent of process area soil samples include Aroclor-1248, Aroclor-1254, and Aroclor-1260. These Aroclors are among the most toxic and most highly bioaccumulative.

Calcium, magnesium, potassium and sodium were not retained for further consideration as they are essential nutrients or electrolytes. Beryllium was eliminated due to an HQ below one. Seventeen inorganics (aluminum, antimony, arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, vanadium, and zinc) were retained because of HQs above one. Cyanide was retained because no ESL was available. The three highest inorganic HQs were for cadmium (43,864 at sample location PASS-06-D), aluminum (2,940 at sample location PASS-15-D), and lead (86,667 at sample location PASS-11-D).

Cadmium has a high potential to bioaccumulate in upper trophic-level ecological receptors, while aluminum and lead have a low to moderate potential to bioaccumulate.

Process Area soil COPCs retained include 18 SVOCs (including 14 PAHs), 6 pesticides, 4 Aroclors, and 18 inorganics. Detailed information about these chemicals is provided in Table 4-3.

5.2.3.1 Non-Process Area

The screening-level evaluations for the Non-Process Area surface soil are shown on Table 4-4. COPCs are summarized in Table 4-5.

Fourteen VOCs, 27 SVOCs (including 16 PAHs), 18 pesticides, 5 Aroclors, and 24 inorganics were detected in the soil collected in the Non-Process area of the site (see Figure 2-2).

Three VOCs (carbon disulfide, styrene, and toluene) were eliminated because HQs were below one and they were only detected once out of 37 samples for a detection frequency of 2.7 percent. Two VOCs (chloroform and cyclohexane) were eliminated because of low detection frequencies (i.e., 2.7 percent). Acetone, methylene chloride, and trichlorofluoromethane were eliminated with HQs below one. Six VOCs were retained. Among them, isopropylbenzene, methyl tert-butyl ether, and methylcyclohexane were retained because no ESLs were available. The remaining three VOCs (benzene, ethylbenzene, and m,p-xylenes) were also retained because HQs were above one.

Among PAHs, acenaphthene, acenaphthylene, and benzo(g,h,i)perylene were the only PAHs eliminated due to HQs below one. The remaining PAHs (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene) were retained due to HQs above one. The total PAH calculation also exceeded the ESL, with an HQ of 285 at sample location SWSS-16-D.

For the remaining SVOCs, five (acetophenone, dibenzofuran, diethylphthalate, dimethylphthalate, and 2,6-dinitrotoluene) were eliminated due to HQs below one. Three SVOCs (methylnaphthalene, bis(2-ethylhexyl)phthalate, butylbenzylphthalate) were retained.

Five pesticides (4,4'-DDD, alpha-chlordane, delta-BHC, endosulfan I, and gamma-chlordane) were eliminated from further consideration in the ecological risk assessment process because of HQs below one. These pesticides were detected infrequently, with delta-BHC detected in only 1 of 37 samples, for a detection frequency of 2.7 percent. The other 13 detected pesticides (4,4'-DDE, 4,4'-DDT, aldrin, alpha-BHC, beta-BHC, endosulfan sulfate, endrin, endrin aldehyde, endrin ketone, gamma-BHC [lindane], heptachlor, heptachlor epoxide, and methoxychlor) were retained with HQs above one. Four detected Aroclors (Aroclor-1016, Aroclor-1248, Aroclor-1254, and Aroclor-1260) were retained because ESLs were not available. Aroclor-1242 was eliminated because it was detected only once out of 37 samples, for a detection frequency of 2.7 percent. The total DDT and total PCB HQs were high, at 968 and 140,843, respectively. Pesticides and PCBs have a high potential to bioaccumulate in the upper trophic-level ecological receptors. Aroclors detected in more than 67 percent of Non-Process Area soil samples include Aroclor-1248, Aroclor-1254, and Aroclor-1260. These Aroclors are highly toxic and bioaccumulative.

Calcium, magnesium, potassium and sodium were not retained for further consideration as they are essential nutrients or electrolytes. Nineteen inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc) were retained because of HQs above one. Cyanide was retained because no ESL was available. The three highest inorganic HQs were for cadmium (14,682 at sample location SWSS-05-D), aluminum (1,828 at sample location SWSS-17-S), and lead (294,444 at sample location SWSS-24-D). Cadmium has a high potential to

bioaccumulate in upper trophic-level ecological receptors, while aluminum and lead have a low to moderate potential to bioaccumulate.

Non-Process Area soil COPCs retained include 6 VOCs, 20 SVOCs (including 14 PAHs), 14 pesticides, 4 Aroclors, and 20 inorganics. Detailed information about these chemicals is provided in Table 4-4.

5.3 Risks from Bioaccumulation/Biomagnification

Food web models are often used to evaluate the potential uptake of contaminants into biological tissues (bioaccumulation) and transfer to increasingly higher trophic levels (biomagnification). In general, SLERAs do not include sufficient and adequate data to allow confident food web modeling for bioaccumulative chemicals. No biota data are available to serve as important input values into such models for this SLERA.

However, the SLERA can identify and generally describe the potential for site-related chemicals to cause adverse effects due to bioaccumulation, including into upper trophic level receptors. Such effects are primarily the result of ingestion of contaminated food items (e.g., plants and prey), but bioaccumulation can also affect lower trophic level biota, such as benthic invertebrates exposed to contaminated sediments.

The most important bioaccumulative chemicals (i.e., those with reasonable potential to cause significant adverse ecological effects) measured at elevated concentrations (relative to ESLs) include the following:

Surface Water: lead (accumulation in and toxicity to benthic invertebrates and fish)

Sediment Exposures: PAHs (accumulation and toxicity to benthic invertebrates); Aroclor-1248, cadmium, copper, lead, mercury, and zinc (accumulation in and toxicity to benthic invertebrates and fish)

Surface Soil Exposures: Pesticides, PCBs, cadmium, copper, lead, mercury, and zinc (accumulation in and toxicity to terrestrial plants, soil-dwelling invertebrates, burrowing mammals, and consumers of directly exposed receptors)

Risks from bioaccumulation of site-related contaminants are most appropriately assessed quantitatively using food web modeling. Contaminant transfer data (e.g., soil-to-biota factors) are important components of food web modeling in a BERA. Descriptions of contaminant transfer from soil or sediment to biota are best expressed using site-specific data because such transfer is dependent on site-specific soil and sediment characteristics, such as pH and particle size. The BERA stage of the ERA is often supported by site-specific biological data and/or accumulation studies to better understand the site-specific transfer of contaminants from abiotic media to biological receptors.

5.4 Risk Summary

This section of the SLERA discusses the potential ecological significance of the estimated risks and provides conclusions. The discussion of ecological significance considers the limitations and uncertainties with the quantitative HQ risk estimates, and modifies these risk estimates with information based on experience with similar sites and professional judgment. Answering the risk questions initially presented in the Problem Formulation phase of the SLERA is an important first step in understanding the results of this SLERA.

The following risk questions were initially identified as important to the SLERA. The initial results of the SLERA are used to respond to these questions and to help form conclusions. The risk questions and associated responses follow.

- (1) *Are site-related contaminants present in surface soil, sediment, or surface water where ecological receptors may be exposed?*

Response: YES.

Available data cannot confirm that surface water COPCs are site-related. Sediment COPCs may or may not be site-related, but available data for on-site surface soil suggest that the site contributes to near-site sediment contamination. Similar contaminants were found in both on-site surface soil and near-site sediments.

- (2) *Where present, are the concentrations of site-related contaminants sufficiently elevated to impair the survival, growth, or reproduction of sensitive ecological receptors?*

Response: YES (sediment and surface soil).

Many of the sediment and surface soil COPCs have been measured at concentrations that may cause ecologically significant adverse effects in sensitive receptors. These include PAHs, pesticides, PCBs, and inorganic COPCs. Of most concern are higher molecular weight PAHs, PCBs, pesticides such as DDT or its metabolites, cadmium, copper, lead, mercury, and zinc.

5.5 Conclusions and Recommendations

In conclusion, based on the findings of the SLERA, in which maximum detected concentrations of the contaminants were compared to conservatively derived published benchmarks, site related contaminants are present at concentrations found to potentially cause adverse ecological effects. However, limited habitat is available on site for ecological receptors, thereby limiting ecological exposure potential.

For the CIM site, CDM recommends that a BERA not be conducted, for the following reasons:

- The on-site area is not an ecological habitat and the potential for exposure is very limited.
- For the Hudson River, a BERA is not recommended because contamination of the river (water and/or sediments) is potentially a wide-spread issue, since numerous sources of contamination may be present in areas both upriver and downriver from the CIM site. As such, it would be nearly impossible to determine if adverse effects from exposure to sediments were due to contaminants at the CIM site or to contaminants from other locations.

Section 6

Uncertainty Assessment

This section discusses the uncertainties in exposure assessment, effects assessment, and risk characterization that may influence the results or interpretation of the SLERA. All risk assessments have varying degrees of uncertainty, which result from the following:

- The need to make assumptions
- The need to fill data gaps using interpolation or extrapolation
- The need to estimate quantitative values where such data are unavailable

6.1 Uncertainties Related to Exposure Assessment

All exposure assessments have a degree of uncertainty due to necessary simplifications and assumptions, which must be made as part of the evaluation. Major sources of uncertainty in the exposure assessment are discussed below.

Concentrations used to represent exposure point concentrations and characterizations of the distributions of COPCs can be a source of uncertainty. These issues relate to the adequate characterization of the nature and extent of chemical contamination. Obviously, all media cannot be sampled at all locations, and data interpolation and extrapolation are necessary. It is assumed, however, that sufficient samples have been collected from all relevant media and appropriately analyzed to adequately describe the nature and extent of chemical contamination resulting from the release of site-related chemicals.

Where potential levels of uncertainty could adversely affect the results of the assessment, conservative approaches are taken that may result in over-protection of sensitive receptors. Such an approach is prudent where uncertainties are high and is in line with regulatory guidance for conducting SLERAs. For example, maximum COPC concentrations are used to assess risk at the SLERA stage, and this approach likely over-estimates the average concentrations to which receptors may be exposed.

6.2 Uncertainties Related to Effects Assessment

In this section, the major sources of uncertainty in the effects assessment are identified and their potential impacts on the SLERA are evaluated. Effects concentrations, or in this case ESLs, are the primary sources of uncertainty in the effects assessment. Uncertainties are probably increased for surface soil and, to a lesser degree, sediment screening levels compared to those for surface water, primarily because surface water toxicity data are more extensive.

All screening levels are biased towards over-protection, and it is, therefore, unlikely that risks are under-estimated using these conservative screening levels. There is adequate confidence in the conclusion of no significant risk if maximum detected COPC concentrations do not exceed these conservative and probably over-protective screening levels.

6.3 Uncertainties Related to Risk Characterization

By definition, uncertainties in risk characterization are influenced by uncertainties in exposure assessment and effects assessment. The adequate sampling and analysis of surface soils, surface water, and sediments minimizes the uncertainties in exposure assessment of these media. Descriptions of the magnitude and distribution of COPCs within the site are considered to be generally representative of current conditions within the site. Since only the maximum detected concentrations are used at this stage of the ERA, the range of exposure concentrations is less critical to the results of the SLERA.

In spite of the overall confidence in exposure data, surface soil data are probably biased towards probable worst-case exposures for most ecological receptors. More intensive sampling of surface soils distant from the source area would likely yield lower concentrations of COPCs, and HQs would be even lower than those calculated. Similarly, additional sampling of the source area soils might yield higher maximum COPC concentrations than those reported, but such areas would be minimally used by most ecological receptors.

Effects data can also contribute to overall uncertainty in risk characterization. Science and scientific investigations cannot prove any hypothesis beyond doubt. The scientific method is instead based on stating hypotheses, testing the hypotheses, and either accepting or rejecting the hypotheses based on the weight-of-evidence provided by test data. Confidence in the ability of selected ESLs to assess ecological risks varies for each data value selected. While all ESLs used in this SLERA are associated with some degree of uncertainty, it is the general trend described by the comparisons between exposure concentrations and effects concentrations, and the overall confidence in such comparisons that are most important. Available information suggests that the ESLs selected for use in this SLERA are generally similar to other ESLs, commonly accepted for screening, and adequate for estimating risk using conservative assumptions.

Another potential source of uncertainty is the small amount of biological or ecological survey data to support this SLERA. The types of surveys needed to aid in the determination of cause and effect relationships, especially at the community or population level, are highly dependent on data quality and data quantity. For example, site-specific data on invertebrate abundance and diversity in surface soils and sediments could be used to evaluate population- or community-level effects that may have resulted from site-related contamination. Such data, however, are not currently available. Recent observations based on a more general site visit/survey are used to qualitatively evaluate evidence of habitat quality, habitat use, presence of receptors, and observations of adverse impacts. The results of this survey yielded little useful information for quantitative risk assessment other than the presence of plant and animal receptors indicative of disturbed habitats.

Finally, the risk characterization method itself can contribute to uncertainty. HQs depend on a single value for both exposure concentration and effects concentration.

Selecting a single screening level only after consulting multiple sources to ensure some degree of consistency minimizes the uncertainty associated with any single value. Incorporating site observations into final conclusions also reduces the dependence on strict quantitative risk estimates that in some cases can be highly uncertain.

Section 7

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Table 3-1
Chemical Properties of Major Classes of COPCs
Consolidated Iron and Metal Superfund Site
Newburgh, New York

COPC Class (Media)	Media	Bioaccumulation Potential	Bioavailability	Persistence
VOCs	Surface Soil	Low	Low	Low
SVOCs		Low (PAHs, vertebrates) to High (PAHs, invertebrates)	Variable	Low to High
Pesticides/PCBs		High	High, decreased at higher TOC	High
Inorganics		Low (Sb, As, Ba, Be, Fe, Mn, Ti, Va), Moderate (Cr, Cu, Pb, Ni, Ag), High (Cd, Hg, Zn)	Variable	High
VOCs	Sediment	Low	Low	Low
SVOCs		Low (PAHs, vertebrates) to High (PAHs, invertebrates)	Variable	Low to High
Pesticides/PCBs		High	High, decreased at higher TOC	High
Inorganics		Low (Sb, As, Fe, Mn), Moderate (Cr, Cu, Pb, Ni, Ag), High (Cd, Zn)	Variable, decreased at higher TOC	High
Inorganics	Surface Water	Low (Al, Fe) to Moderate (Pb)	Variable, decreased at higher hardness	High

Designations of Low, Moderate, and High are based on aquatic BCFs (bioconcentration potential) and comparisons to other classes of COPCs, using best professional judgment (bioavailability and persistence)

Table 3-2
Bioconcentration Factors for Bioaccumulative COPCs
Consolidated Iron and Metal Superfund Site
Newburgh, New York

COPC	BCF	Source
Aldrin	51,286, estimated using log K_{ow}	1
Aroclor 1016	10,617, estimated using log K_{ow}	1
Aroclor 1242		
Aroclor 1248	30,339, estimated using log K_{ow}	1
Aroclor 1254	51,286, estimated using log K_{ow}	1
BEHP	207,970, estimated using log K_{ow}	1
DDT (and metabolites)	54,050, estimated using log K_{ow}	1
Dieldrin	51,286, estimated using log K_{ow} based on Aldrin	1
Endrin	4,127, estimated using log K_{ow}	1
Heptachlor	33,698, estimated using log K_{ow}	1
Aluminum	231, estimated using log K_{ow}	
Cadmium	12,400, maximum fish	1
Copper	290, maximum fish	1
Mercury	4,994, maximum fish, mercuric chloride 85,700, maximum fish, methylmercury	2
Zinc	966, maximum fish	1
Source 1 – Sample, Opresko, and Suter II (1996),		
Source 2 – AWQC for Mercury - 1984 (EPA 1985a)		

Table 3-3
General Exposure Data for Representative Ecological Receptor Groups
Consolidated Iron and Metal Superfund Site
Newburgh, New York

REPRESENTATIVE RECEPTOR GROUP	PRIMARY STRESSOR	PRIMARY POTENTIAL EXPOSURE ROUTES AND PROCESSES
Terrestrial Plants (e.g., grasses, shrubs)	Contaminated surface soil	Direct contact and uptake via root system
Aquatic Macroinvertebrates (e.g., fly, mayfly, and midge larvae)	Contaminated sediments	Sediment pore water contact and ingestion, ingestion of sediment particulates (varying exposure potential depending on life stage and flow)
Fish and Larval Amphibians	Contaminated sediments and surface water	Sediment pore water contact, ingestion of contaminated surface water and sediment, ingestion of prey
Semi-aquatic and Terrestrial Animals (vertebrates and invertebrates)	Contaminated surface soil and sediments	Sediment and soil direct contact and ingestion of soil, sediment, and/or aquatic/terrestrial prey

Table 4-1
Summary of Surface Water Screening Results
Consolidated Iron and Metal Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value ¹	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Inorganics											
Aluminum	200	610	µg/L	SW-15	10 / 10	0 - 0	283	100	c	6.1	Yes
Calcium	28000	29000	µg/L	SW-11	10 / 10	0 - 0	28100	NV	--	NA	No
Cyanide	2 J	3.2 J	µg/L	SW-18	3 / 10	10 - 10	4.86	5.2	a,b	0.62	No
Iron	260	740	µg/L	SW-15	10 / 10	0 - 0	350	300	b	2.5	Yes
Lead	10	12	µg/L	SW-12	2 / 10	10 - 10	6.1	2.79	b	4.3	Yes
Magnesium	5300	5500	µg/L	SW-15	10 / 10	0 - 0	5350	NV	--	NA	No
Manganese	39	60	µg/L	SW-19	10 / 10	0 - 0	36.4	NV	--	NA	Yes
Sodium	20000	21000	µg/L	SW-18	10 / 10	0 - 0	82600	NV	--	NA	No
Conventional Parameters											
Dissolved Organic Carbon	3.4	4.4	mg/l	SW-13	10 / 10	0 - 0	3.67	NV	--	NA	No
Hardness (as CaCO3)	110	130	mg/l	SW-17	10 / 10	0 - 0	115	NV	--	NA	No
Sulfate	12	13	mg/l	SW-15	10 / 10	0 - 0	18.9	NV	--	NA	No
Total Dissolved Solids	110	170	mg/l	SW-16	10 / 10	0 - 0	110.9	NV	--	NA	No
Total Suspended Solids	7	17	mg/l	SW-19	10 / 10	0 - 0	15.6	NV	--	NA	No

Notes:

¹ Background values were calculated by summing the values from samples (SW-01 through SW-10), including one half detection limits for non-detects, and calculating the mean value

² Sources (complete citation in Section 4, References):

a EPA 2002a. NWRQC, CCC Value

b NYSDEC Surface Water Quality Standard, Protection for Fish Propagation

c NYSDEC Surface Water Quality Standard, Protection for Wildlife

Chemicals presented in **bold** are COPCs.

NV = No Value

NA = Not Applicable

J = Estimated Value

COPC = contaminant of potential concern

CaCO₃ = calcium carbonate

µg/L = micrograms per liter

mg/l = milligrams per liter

Table 4-2
Summary of Sediment Screening Results
Consolidated Iron and Metal Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value ¹	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Volatile Organic Compounds											
Acetone	21	120	µg/kg	SD-17	8 / 10	10 - 16	34.9	NV	--	NA	Yes
2-Butanone	8 J	26	µg/kg	SD-17	4 / 10	9 - 21	8.6	NV	--	NA	Yes
Chlorobenzene	13	13	µg/kg	SD-20	1 / 10	10 - 21	ND	42	d	0.31	No
1,4-Dichlorobenzene	17	17	µg/kg	SD-20	1 / 10	10 - 21	ND	144	d	0.12	No
Toluene	4 J	4 J	µg/kg	SD-20	1 / 10	10 - 21	ND	588	d	0.007	No
Semi-Volatile Organic Compounds											
Acenaphthene	94 J	4700	µg/kg	SD-19	6 / 10	890 - 1000	2072.0	1680	d	2.8	Yes
Acenaphthylene	110 J	240 J	µg/kg	SD-20	3 / 10	890 - 3800	496.5	NV	--	NA	Yes
Anthracene	220 J	8300	µg/kg	SD-19	6 / 10	890 - 1000	2579.0	57.2	b	145	Yes
Benzaldehyde	91 J	210 J	µg/kg	SD-18	7 / 10	1000 - 3800	ND	NV	--	NA	Yes
Benzo(a)anthracene	160 J	16000	µg/kg	SD-19	10 / 10	0 - 0	2431.2	31.7	a,c	505	Yes
Benzo(a)pyrene	190 J	12000	µg/kg	SD-19	10 / 10	0 - 0	1814.9	31.9	c	376	Yes
Benzo(b)fluoranthene	270 J	15000	µg/kg	SD-19	10 / 10	0 - 0	2061.0	NV	--	NA	Yes
Benzo(g,h,i)perylene	95 J	4700	µg/kg	SD-19	10 / 10	0 - 0	918.4	NV	--	NA	Yes
Benzo(k)fluoranthene	96 J	5900	µg/kg	SD-19	9 / 10	920 - 920	951.5	NV	--	NA	Yes
bis(2-Ethylhexyl) phthalate	1900	7200 J	µg/kg	SD-11	3 / 10	890 - 3800	5591.0	2394	d	3.0	Yes
Butylbenzylphthalate	120 J	1200 J	µg/kg	SD-19	5 / 10	890 - 1500	774.5	NV	--	NA	Yes
Carbazole	210 J	2700 J	µg/kg	SD-19	5 / 10	890 - 1000	494.5	NV	--	NA	Yes
Chrysene	200 J	16000	µg/kg	SD-19	10 / 10	0 - 0	2649.0	57.1	a,c	280	Yes
Dibenzo(a,h)anthracene	150 J	2400 J	µg/kg	SD-19	6 / 10	890 - 1000	616.0	33	b	73	Yes
Dibenzofuran	79 J	1900 J	µg/kg	SD-19	4 / 10	890 - 1000	1247.0	NV	--	NA	Yes
Dimethylphthalate	470 J	470 J	µg/kg	SD-11	1 / 10	660 - 3800	ND	NV	--	NA	Yes
Di-n-butylphthalate	110 J	11000 J	µg/kg	SD-20	3 / 10	590 - 3800	615.6	NV	--	NA	Yes
Di-n-octylphthalate	71 J	510 J	µg/kg	SD-11	4 / 10	890 - 3800	ND	NV	--	NA	Yes
Fluoranthene	270 J	40000	µg/kg	SD-19	10 / 10	0 - 0	5046.0	111	a,c	360	Yes
Fluorene	100 J	4800	µg/kg	SD-19	6 / 10	890 - 1000	1799.0	77.4	b	62	Yes
Indeno(1,2,3-cd)pyrene	110 J	7700	µg/kg	SD-19	10 / 10	0 - 0	1027.2	NV	--	NA	Yes
2-Methylnaphthalene	98 J	770 J	µg/kg	SD-19	3 / 10	660 - 1500	865.5	408	d	1.9	Yes
4-Methylphenol	70 J	70 J	µg/kg	SD-11	1 / 10	660 - 3800	ND	NV	--	NA	Yes
Naphthalene	160 J	1300 J	µg/kg	SD-19	3 / 10	660 - 1500	865.5	360	d	3.6	Yes
Phenanthrene	140 J	28000	µg/kg	SD-19	10 / 10	0 - 0	5950.5	41.9	a,c	668	Yes
Pyrene	300 J	40000	µg/kg	SD-19	10 / 10	0 - 0	4823.0	53	a,c	755	Yes
Total PAH		214070	µg/kg	SD-19			305090.0	1610	a,b,c	132.9	Yes
Pesticides and Polychlorinated biphenyls											
4,4'-DDD	3.3 J	11	µg/kg	SD-17	2 / 10	4.9 - 10	4.46	3.54	a,b,c	3.1	Yes
4,4'-DDE	3.5 J	12 J	µg/kg	SD-11	10 / 10	0 - 0	6.035	12	d	1	Yes
Total DDT		24.1	µg/kg	SD-17			18.15	7	a,b,c	3.44	Yes
Endrin aldehyde	3.2 J	8.4 JN	µg/kg	SD-17	3 / 10	3.8 - 10	ND	NV	--	NA	Yes
Endrin ketone	6.2 JN	6.2 JN	µg/kg	SD-20	1 / 9	3.8 - 10	6.26	NV	--	NA	Yes
Aroclor-1248	220 J	520 J	µg/kg	SD-11	4 / 6	38 - 49	223.3	NV	--	NA	Yes
Total PCBs		650	µg/kg	SD-05			650	NV	--	NA	Yes

Table 4-2
Summary of Sediment Screening Results
Consolidated Iron and Metal Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value ¹	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Inorganics											
Aluminum	8500	18000	mg/kg	SD-17	10 / 10	0 - 0	14000	NV	--	NA	Yes
Antimony	15 J	15 J	mg/kg	SD-12	1 / 10	7.4 - 18	11.5	2	d	7.5	Yes
Arsenic	1.5	14	mg/kg	SD-17	10 / 10	0 - 0	5.81	5.9	a,c,d	2.4	Yes
Barium	47	380	mg/kg	SD-20	10 / 10	0 - 0	119.1	NV	--	NA	Yes
Cadmium	1.4	1.7	mg/kg	SD-17	2 / 10	0.62 - 1.5	0.865	0.596	a,c,d	2.9	Yes
Calcium	4300 J	16000	mg/kg	SD-19	10 / 10	0 - 0	5020	NV	NA	NA	No
Chromium	18	86	mg/kg	SD-17	10 / 10	0 - 0	54.8	26	d	3.3	Yes
Cobalt	9.2	18 J	mg/kg	SD-16	10 / 10	0 - 0	15.5	NV	--	NA	Yes
Copper	36	2600	mg/kg	SD-17	10 / 10	0 - 0	65.3	16	d	163	Yes
Cyanide	0.28 J	0.66 J	mg/kg	SD-16	4 / 10	4.9 - 7.8	2.786	NV	--	NA	Yes
Iron	25000	69000	mg/kg	SD-17	10 / 10	0 - 0	31700	NV	--	NA	Yes
Lead	60 J	400	mg/kg	SD-17	10 / 10	0 - 0	70.3	31	d	12.9	Yes
Magnesium	5600	10000	mg/kg	SD-19	10 / 10	0 - 0	6340	NV	--	NA	No
Manganese	370	1900 J	mg/kg	SD-16	10 / 10	0 - 0	1671	460	d	4.1	Yes
Mercury	0.17	0.54	mg/kg	SD-11	10 / 10	0 - 0	0.3245	0.15	d	3.6	Yes
Nickel	21	86	mg/kg	SD-17	10 / 10	0 - 0	165.5	16	d	5.4	Yes
Potassium	700	2500 J	mg/kg	SD-16	10 / 10	0 - 0	1860	NV	--	NA	No
Selenium	8.9 J	8.9 J	mg/kg	SD-12	1 / 10	4.3 - 10	6.62	NV	--	NA	Yes
Silver	2.3	7.2 J	mg/kg	SD-16	4 / 10	1.2 - 3	ND	1	d	7.2	Yes
Thallium	6.4 J	6.4 J	mg/kg	SD-12	1 / 10	3.1 - 7.4	4.735	NV	--	NA	Yes
Vanadium	15	31 J	mg/kg	SD-16	10 / 10	0 - 0	26.1	NV	--	NA	Yes
Zinc	160	1100	mg/kg	SD-17	10 / 10	0 - 0	180	120	d	9.2	Yes
Conventional Parameters											
Percent Solids	35	83	%	SD-19	10 / 10	0 - 0	38.3	NV	--	NA	No
pH	6.3	9.6	S.U.	SD-19	8 / 8	0 - 0	NV	NV	--	NA	No
Sodium	19 J*	78	M/100	SD-14	8 / 10	3.1 - 3.3	40.3	NV	--	NA	No
Total Organic Carbon	12000	64000	mg/kg	SD-15	10 / 10	0 - 0	42400	NV	--	NA	No

Notes:

¹ Background values were calculated by summing the values from samples (SD-01 through SD-10), including one half detection limits for non-detects, and calculating the mean value

² Sources (complete citation in Section 4, References):

a Smith, S. L., et al. 1996. A Preliminary evaluation of sediment quality assessment values for freshwater ecosystems, J. Great lakes Res. 22(3):624-638

b MacDonald et al. 2000. Development and evaluation of consensus-based sediment quality guidelines for freshwater ecosystems, Arch. Environ Contam Toxicol 39, 20-31

c NOAA Squirt 1999.

d NYSDEC Technical Guidance for Screening Contaminated Sediments, 1999.

Chemicals presented in **bold** are COPCs.

NV = No Value

NA = Not Applicable

ND = Not detected

J = Estimated Value

JN = Tentatively Identified

* = Duplicate results were outside the QC criteria

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

COPC = chemical of potential concern

Table 4-3
Summary of Screening Results for Process Area Surface Soils
Consolidated Iron and Metal Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Volatile Organic Comopunds											
1,2-Dichlorobenzene	12 J	12 J	µg/kg	PASS-06-D	1 / 21	10 - 15	ND	10	f	1.2	No
1,4-Dichlorobenzene	4 J	4 J	µg/kg	PASS-06-D	1 / 21	10 - 15	ND	10	f	0.4	No
Methylene Chloride	13 J	13 J	µg/kg	PASS-19-D	1 / 21	10 - 18	6.45	100	f	0.1	No
Semi-Volatile Organic Compounds											
Benzaldehyde	300 J	300 J	µg/kg	PASS-11-D	1 / 21	1800 - 4500	ND	NV	--	NA	No
Acenaphthene	240 J	2900 J	µg/kg	PASS-04-D	9 / 21	1800 - 4500	323	20000	b,f	0.1	No
Anthracene	220 J	7000	µg/kg	PASS-04-D	18 / 21	2000 - 2200	324	100	f	70.0	Yes
Benzo(a)anthracene	400 J	19000	µg/kg	PASS-04-D	21 / 21	0 - 0	1114.6	100	e	190.0	Yes
Benzo(a)pyrene	430 J	23000	µg/kg	PASS-04-D	21 / 21	0 - 0	947	100	e,f	230.0	Yes
Benzo(b)fluoranthene	520 J	22000	µg/kg	PASS-04-D	21 / 21	0 - 0	1095	100	e	220.0	Yes
Benzo(g,h,i)perylene	510 J	4800	µg/kg	PASS-04-D	20 / 21	4000 - 4000	285.5	119000	a	0.04	No
Benzo(k)fluoranthene	420 J	20000	µg/kg	PASS-04-D	21 / 21	0 - 0	991.1	100	e	200.0	Yes
bis(2-Ethylhexyl) phthalate	910 J	73000	µg/kg	PASS-06-D	21 / 21	0 - 0	1041.1	926	a	78.8	Yes
Butylbenzylphthalate	490 J	9500	µg/kg	PASS-04-D	20 / 21	2000 - 2000	420.3	239	a	39.7	Yes
Caprolactam	1400 J	1400 J	µg/kg	PASS-02-D	1 / 21	1800 - 4500	ND	NV	--	NA	No
Carbazole	230 J	3000 J	µg/kg	PASS-04-D	11 / 21	1800 - 4000	392	NV	--	NA	Yes
Chrysene	550 J	22000	µg/kg	PASS-04-D	21 / 21	0 - 0	697.1	4730	a	4.7	Yes
Dibenzo(a,h)anthracene	320 J	5500	µg/kg	PASS-04-D	16 / 21	2000 - 2200	403.5	100	e	55.0	Yes
Dibenzofuran	1000 J	1300 J	µg/kg	PASS-04-D	2 / 21	1800 - 4500	418.9	NV	--	NA	Yes
Dimethylphthalate	420 J	2500 J	µg/kg	PASS-12-D	4 / 21	1800 - 4500	ND	200000	d,f	0.01	No
Di-n-butylphthalate	270 J	2900 J	µg/kg	PASS-04-D	5 / 21	1800 - 4400	ND	200000	d,f	0.01	No
Di-n-octylphthalate	210 J	1800 J	µg/kg	PASS-06-D	6 / 21	1900 - 4400	ND	NV	--	NA	Yes
Fluoranthene	530 J	40000	µg/kg	PASS-04-D	21 / 21	0 - 0	1576	100	f	400.0	Yes
Fluorene	210 J	2700 J	µg/kg	PASS-04-D	8 / 21	1800 - 4200	396.9	30	f	90.0	Yes
Indeno(1,2,3-cd)pyrene	560 J	17000	µg/kg	PASS-04-D	21 / 21	0 - 0	717.6	100	e	170.0	Yes
2-Methylnaphthalene	520 J	520 J	µg/kg	PASS-04-D	2 / 21	1800 - 4500	ND	3240	a	0.2	No
Naphthalene	910 J	2400 J	µg/kg	PASS-02-D	2 / 21	1800 - 4500	ND	99.39	a	24.1	Yes
Phenanthrene	250 J	23000	µg/kg	PASS-04-D	21 / 21	0 - 0	784.8	100	e,f	230.0	Yes
Pyrene	680 J	40000	µg/kg	PASS-04-D	21 / 21	0 - 0	1858	100	e,f	400.0	Yes
Total PAHs		256730	µg/kg	PASS-04-D			51050.0	1000	f	256.7	Yes
Pesticides and Polychlorinated Biphenyls											
4,4'-DDE	12 J	1600 J	µg/kg	PASS-05-S	21 / 21	0 - 0	7.198	596	a	2.7	Yes
4,4'-DDT	120 J	3000 J	µg/kg	PASS-04-D	8 / 21	3.7 - 44	21.46	3.5	a	857.1	Yes
Total DDT		4421	µg/kg	PASS-04-D			923.0	2.5	f	1768.4	Yes
alpha-BHC	76 J	76 J	µg/kg	PASS-08-D	1 / 21	1.9 - 23	ND	2.5	f	30.4	No
Endosulfan sulfate	15 JN	120 JN	µg/kg	PASS-04-D	8 / 18	4 - 45	3.3	35.78	a	3.4	Yes
Endrin	84 J	2900 J	µg/kg	PASS-05-S	20 / 21	4.1 - 4.1	2.418	1	f	2900.0	Yes
Heptachlor	2.3 J	800 J	µg/kg	PASS-06-D	18 / 21	2 - 3.9	ND	5.98	a	133.8	Yes
Heptachlor epoxide	62 J	62 J	µg/kg	PASS-15-D	1 / 9	2 - 23	1.85	100	f	0.6	No
Methoxychlor	36 JN	290 J	µg/kg	PASS-02-D	7 / 17	20 - 230	ND	19.88	a	14.6	Yes
Aroclor-1242	21000 J	38000 J	µg/kg	PASS-06-D	4 / 21	37 - 210	ND	NV	--	NA	Yes
Aroclor-1248	170 J	37000 J	µg/kg	PASS-09-D	16 / 21	120 - 450	ND	NV	--	NA	Yes
Aroclor-1254	460 J	35000 J	µg/kg	PASS-05-S	21 / 21	0 - 0	56.2	NV	--	NA	Yes
Aroclor-1260	380 J	9700 J	µg/kg	PASS-14-D	15 / 21	37 - 450	28.95	NV	--	NA	Yes
Total PCB		69265	µg/kg	PASS-04-D			303.5	0.332	a	208629.5	Yes

Table 4-3
Summary of Screening Results for Process Area Surface Soils
Consolidated Iron and Metal Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Unit	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Inorganics											
Aluminum	18600	147000 D	mg/kg	PASS-15-D	21 / 21	0 - 0	8024	50	b,f	2940.0	Yes
Antimony	14.8	97.5	mg/kg	PASS-06-D	21 / 21	0 - 0	3.052	0.142	a	686.6	Yes
Arsenic	7.3	28.4	mg/kg	PASS-10-D	21 / 21	0 - 0	6.14	5.7	a	5.0	Yes
Barium	130	1930 J*	mg/kg	PASS-08-D	21 / 21	0 - 0	68.57	1.04	a	1855.8	Yes
Beryllium	0.34 J	0.68	mg/kg	PASS-08-D	21 / 21	0 - 0	0.415	1.06	a	0.6	No
Cadmium	9.3 *	96.5 *	mg/kg	PASS-06-D	21 / 21	0 - 0	1.153	0.0022	a	43863.6	Yes
Calcium	11500	52400	mg/kg	PASS-13-S	21 / 21	0 - 0	8987	NV	--	NA	No
Chromium	69	277	mg/kg	PASS-19-D	21 / 21	0 - 0	16.38	0.4	a,d,f	692.5	Yes
Cobalt	9.6	26.7	mg/kg	PASS-04-D	21 / 21	0 - 0	8.93	0.14033	a	190.3	Yes
Copper	909 *	11000 D	mg/kg	PASS-19-D	21 / 21	0 - 0	63.14	5.4	a	2037.0	Yes
Cyanide	0.23 J	0.95 J	mg/kg	PASS-05-S	5 / 21	2.8 - 3.2	ND	NV	--	NA	Yes
Iron	30500 J*	127000	mg/kg	PASS-04-D	21 / 21	0 - 0	22520	200	c,f	635.0	Yes
Lead	1000	4680	mg/kg	PASS-11-D	21 / 21	0 - 0	14.12	0.054	a	86666.7	Yes
Magnesium	4850	37100	mg/kg	PASS-13-S	21 / 21	0 - 0	4333	NV	--	NA	No
Manganese	672	1600	mg/kg	PASS-15-D	21 / 21	0 - 0	584.4	100	c,f	16.0	Yes
Mercury	1	15.2 D	mg/kg	PASS-09-D	20 / 20	0 - 0	0.236	0.1	a,d,f	152.0	Yes
Nickel	75.1 *	413 *	mg/kg	PASS-09-D	21 / 21	0 - 0	19.96	13.6	a	30.4	Yes
Potassium	476 EJ	1590 EJ	mg/kg	PASS-08-D	21 / 21	0 - 0	718	NV	--	NA	No
Selenium	0.62 J	3.4 J	mg/kg	PASS-08-D	4 / 21	3.8 - 4.5	ND	0.027	a	125.9	Yes
Silver	1.9	13	mg/kg	PASS-19-D	21 / 21	0 - 0	0.464	2	b,f	6.5	Yes
Sodium	251 J	2290	mg/kg	PASS-08-D	21 / 21	0 - 0	114.11	NV	--	NA	No
Vanadium	32.7	256	mg/kg	PASS-10-D	21 / 21	0 - 0	39.1	1.59	a	161.0	Yes
Zinc	1820	10900 EJ	mg/kg	PASS-05-S	21 / 21	0 - 0	233.7	6.62	a	1646.5	Yes

Notes:

¹ Background values were calculated by summing the values from samples (BKSS-01 through BKSS-10), including one half detection limits for non-detects, and calculating the mean value

² Screening Value Sources (complete citation in Section 4, References):

a EPA Region 5 ESLs 2003

b Efroymsen, R. A., et al. 1997a.

c Efroymsen, R. A., et al. 1997b. (Soil microorganisms)

d Efroymsen, R. A., et al. 1997b. (soil earthworms)

e Canadian Council of Ministers of the Environment (CCME) 2002.

f EPA 2001, Region 4

Chemicals presented in **bold** are COPCs.

NV = No Value

NA = Not Applicable

J = Estimated Value

JN = Tentatively Identified

ND = Not detected

* = Duplicate results were outside the QC criteria

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

COPC = contaminant of potential concern

Table 4-4
Summary of Screening Results for Non-Process Area Surface Soils
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value ¹	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Volatile Organic Compounds											
Acetone	2 J	32	µg/kg	SWSS-18-D	3 / 37	10 - 12	5.5	2500	a	0.013	No
Benzene	5 J	61	µg/kg	SWSS-18-D	2 / 37	10 - 12	ND	50	f	1.22	Yes
Carbon Disulfide	3 J	3 J	µg/kg	SWSS-18-D	1 / 37	10 - 12	ND	94.1	a	0.032	No
Chloroform	4 J	4 J	µg/kg	SWSS-18-D	1 / 37	10 - 12	ND	1	f	4	No
Cyclohexane	120	120	µg/kg	SWSS-18-D	1 / 37	10 - 12	ND	100	f	1.2	No
Ethylbenzene	5 J	97	µg/kg	SWSS-18-D	3 / 37	10 - 12	ND	50	f	1.94	Yes
Isopropylbenzene	2 J	64	µg/kg	SWSS-18-D	5 / 37	10 - 12	ND	NV	--	NA	Yes
m,p-Xylenes	1 J	150 J	µg/kg	SWSS-09-D	7 / 37	10 - 12	ND	50	f	3	Yes
Methyl tert-Butyl Ether	3 J	360 J	µg/kg	SWSS-18-D	2 / 37	10 - 12	ND	NV	--	NA	Yes
Methylene Chloride	2 J	2 J	µg/kg	SWSS-34-S	3 / 37	10 - 12	6.5	100	f	0.02	No
Methylcyclohexane	6 J	190	µg/kg	SWSS-18-D	2 / 37	10 - 12	ND	NV	--	NA	Yes
Styrene	3 J	3 J	µg/kg	SWSS-09-D	1 / 37	10 - 12	ND	100	f	0.03	No
Toluene	18 J	18 J	µg/kg	SWSS-09-D	1 / 37	10 - 12	ND	50	f	0.36	No
Trichlorofluoromethane	4 J	30	µg/kg	SWSS-12-D	2 / 37	10 - 12	ND	16400	a	0.0018	No
Semi-Volatile Organic Compounds											
2-Methylnaphthalene	45 J	3900 J	µg/kg	SWSS-32-D	12 / 37	370 - 4100	ND	3240	a	1.2	Yes
Acenaphthene	36 J	4300 J	µg/kg	SWSS-16-D	21 / 37	370 - 4100	323	20000	b,f	0.215	No
Acenaphthylene	44 J	590 J	µg/kg	SWSS-36-D	10 / 37	370 - 4100	353.2	682000	a	0.0009	No
Acetophenone	75 J	1300 J	µg/kg	SWSS-08-S	7 / 37	360 - 4100	ND	300000	a	0.0043	No
Anthracene	110 J	10000	µg/kg	SWSS-06-D	31 / 37	370 - 3900	324	100	f	100	Yes
Benzo(a)anthracene	260 J	25000 J	µg/kg	SWSS-16-D	36 / 37	1900 - 1900	1114.6	100	e	250	Yes
Benzo(a)pyrene	240 J	19000 J	µg/kg	SWSS-16-D	37 / 37	0 - 0	947	100	e,f	190	Yes
Benzo(b)fluoranthene	230 J	22000 J	µg/kg	SWSS-16-D	37 / 37	0 - 0	1095	100	e	220	Yes
Benzo(g,h,i)perylene	210 J	4800	µg/kg	SWSS-06-D	31 / 37	1800 - 3700	285.5	119000	a	0.0403	No
Benzo(k)fluoranthene	150 J	17000 J	µg/kg	SWSS-16-D	35 / 37	370 - 770	991.1	100	e	170	Yes
bis(2-Ethylhexyl) phthalate	220 J	37000	µg/kg	SWSS-32-D	35 / 37	450 - 8900	1041.1	926	a	40.0	Yes
Butylbenzylphthalate	240 J	43000	µg/kg	SWSS-12-D	34 / 37	370 - 1900	420.3	239	a	179.9	Yes
Carbazole	52 J	5600 J	µg/kg	SWSS-16-D	25 / 37	370 - 3900	392	NV	--	NA	Yes
Chrysene	380	23000 J	µg/kg	SWSS-16-D	36 / 37	1900 - 1900	697.1	4730	a	4.9	Yes
Dibenzo(a,h)anthracene	51 J	3100 J	µg/kg	SWSS-16-D	33 / 37	1900 - 3900	403.5	100	e	31	Yes
Dibenzofuran	90 J	2400 J	µg/kg	SWSS-16-D	11 / 37	360 - 4100	418.9	NV	--	NA	Yes
Diethylphthalate	750 J	750 J	µg/kg	SWSS-14-S	1 / 37	360 - 4100	ND	24800	a	0.0302	No
Dimethylphthalate	120 J	17000 J	µg/kg	SWSS-15-S	19 / 37	360 - 3700	ND	200000	d,f	0.085	No
2,6-Dinitrotoluene	95 J	450	µg/kg	SWSS-32-D	2 / 37	360 - 4100	ND	33	a	13.6	Yes
Di-n-butylphthalate	76 J	1100	µg/kg	SWSS-34-S	22 / 37	370 - 4100	ND	200000	b,f	0.0055	No
Di-n-octylphthalate	120 J	2100 J	µg/kg	SWSS-09-D	11 / 37	360 - 4100	ND	NV	--	NA	Yes
Fluoranthene	220 J	52000	µg/kg	SWSS-06-D	37 / 37	0 - 0	1576	100	f	520	Yes

Table 4-4
Summary of Screening Results for Non-Process Area Surface Soils
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value ¹	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Semi-Volatile Organic Compounds (cont.)											
Fluorene	46 J	4400 J	µg/kg	SWSS-16-D	22 / 37	370 - 4100	396.9	30	f	146.7	Yes
Indeno(1,2,3-cd)pyrene	180 J	10000 J	µg/kg	SWSS-16-D	37 / 37	0 - 0	717.6	100	e	100	Yes
Naphthalene	44 J	2100	µg/kg	SWSS-32-D	13 / 37	360 - 4100	ND	99.39	a	21.1	Yes
Phenanthrene	330 J	38000 J	µg/kg	SWSS-16-D	34 / 37	370 - 3900	784.8	100	e,f	380	Yes
Pyrene	220 J	50000 J	µg/kg	SWSS-16-D	37 / 37	0 - 0	1858.0	100	e,f	500	Yes
Total PAH		284690	µg/kg	SWSS-16-D			51050.0	1000	f	284.69	Yes
Pesticides and Polychlorinated Biphenyls											
4,4'-DDD	220 J	230 J	µg/kg	SWSS-04-D	2 / 35	3.5 - 38	8.083	758	a	0.303	No
4,4'-DDE	21	710	µg/kg	SWSS-12-D	22 / 36	3.6 - 7.7	7.198	596	a	1.2	Yes
4,4'-DDT	43 J	1700	µg/kg	SWSS-12-D	13 / 37	3.5 - 38	21.46	3.5	a	485.7	Yes
Total DDT		2420.5	µg/kg	SWSS-12-D			923	2.5	f	968.2	Yes
Aldrin	3.3 J	19 J	µg/kg	SWSS-06-D	3 / 30	1.8 - 20	ND	2.5	f	7.6	Yes
alpha-BHC	3 J	8.1 J	µg/kg	SWSS-29-D	4 / 34	1.8 - 20	ND	2.5	f	3.24	Yes
alpha-Chlordane	2 N	59 J	µg/kg	SWSS-11-D	6 / 32	1.8 - 20	0.639	100	f	0.59	No
beta-BHC	4.6 J	36 J	µg/kg	SWSS-27-D	12 / 25	1.8 - 20	1.44	1	f	36	Yes
delta-BHC	6.3	6.3	µg/kg	SWSS-18-D	1 / 37	1.8 - 20	ND	100	f	0.063	No
Endosulfan I	20 N	20 N	µg/kg	SWSS-14-S	1 / 18	1.8 - 20	1.305	100	f	0.2	No
Endosulfan sulfate	4.4 J	40 J	µg/kg	SWSS-10-D	6 / 35	3.5 - 38	3.3	35.78	a	1.1	Yes
Endrin	9 J	1300 J	µg/kg	SWSS-12-D	19 / 33	3.6 - 7.7	2.418	1	f	1300	Yes
Endrin aldehyde	8.5 J	250 J	µg/kg	SWSS-04-D	5 / 36	3.6 - 38	2.428	10.5	a	23.8	Yes
Endrin ketone	11 J	320 J	µg/kg	SWSS-11-D	5 / 33	3.5 - 38	9.085	100	f	3.2	Yes
gamma-BHC (Lindane)	6.2 J	20 J	µg/kg	SWSS-07-D	5 / 29	1.8 - 20	ND	0.05	f	400	Yes
gamma-Chlordane	22 N	75 N	µg/kg	SWSS-22-D	3 / 36	1.8 - 20	3.673	100	f	0.75	No
Heptachlor	4.2 J	39 J	µg/kg	SWSS-11-D	16 / 37	1.8 - 20	ND	5.98	a	6.5	Yes
Heptachlor epoxide	370 J	370 J	µg/kg	SWSS-10-D	1 / 16	1.8 - 4	1.85	100	f	3.7	Yes
Methoxychlor	31 J	310 J	µg/kg	SWSS-09-D	10 / 33	18 - 200	ND	19.88	a	15.6	Yes
Aroclor-1016	140	1200	µg/kg	SWSS-35-D	4 / 37	35 - 380	ND	NV	--	NA	Yes
Aroclor-1242	110 J	110 J	µg/kg	SWSS-01-D	1 / 37	35 - 380	ND	NV	--	NA	No
Aroclor-1248	310 J	17000 J	µg/kg	SWSS-05-D	25 / 37	36 - 190	ND	NV	--	NA	Yes
Aroclor-1254	70 J	25000 J	µg/kg	SWSS-05-D	37 / 37	0 - 0	56.2	NV	--	NA	Yes
Aroclor-1260	160 J	6100 J	µg/kg	SWSS-11-D	31 / 37	36 - 210	28.95	NV	--	NA	Yes
Total PCBs		46760	µg/kg	SWSS-05-D			303.5	0.332	a	140843	Yes

Table 4-4
Summary of Screening Results for Non-Process Area Surface Soils
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limit	Background Value ¹	Ecological Screening Level		Hazard Quotient	COPC
								Value	Source ²		
Inorganics											
Aluminum	14400	91400	mg/kg	SWSS-17-S	37 / 37	0 - 0	8024	50	b,f	1828	Yes
Antimony	1.8 J	40	mg/kg	SWSS-32-D	22 / 27	6.3 - 6.7	3.052	0.142	a	281.7	Yes
Arsenic	5.1	39.8	mg/kg	SWSS-11-D	29 / 29	0 - 0	6.14	5.7	a	7.0	Yes
Barium	149	489	mg/kg	SWSS-05-D	28 / 28	0 - 0	68.51	1.04	a	470.2	Yes
Beryllium	0.47 J	1.7 J	mg/kg	SWSS-22-D	27 / 37	0.53 - 0.67	0.415	1.06	a	1.6	Yes
Cadmium	2	32.3	mg/kg	SWSS-05-D	37 / 37	0 - 0	1.153	0.0022	a	14682	Yes
Calcium	8930	74800	mg/kg	SWSS-08-S	37 / 37	0 - 0	8987	NV	--	NA	No
Chromium	30.9 J	187	mg/kg	SWSS-05-D	37 / 37	0 - 0	16.38	0.4	a,d,f	467.5	Yes
Cobalt	11.2	26.4	mg/kg	SWSS-05-D	37 / 37	0 - 0	8.93	0.14033	a	188.1	Yes
Copper	291 J	6850	mg/kg	SWSS-17-S	29 / 29	0 - 0	63.14	5.4	a	1269	Yes
Cyanide	0.12	0.77 J	mg/kg	SWSS-05-D	24 / 37	0.11 - 2.7	ND	NV	--	NA	Yes
Iron	31100	111999	mg/kg	SWSS-11-D	37 / 37	0 - 0	22520.0	200	c,f	560.0	Yes
Lead	445	15900	mg/kg	SWSS-24-D	29 / 29	0 - 0	141.1	0.054	a	294444	Yes
Magnesium	5880	24300 J	mg/kg	SWSS-24-D	37 / 37	0 - 0	4333.0	NV	--	NA	No
Manganese	592	1610	mg/kg	SWSS-22-D	37 / 37	0 - 0	584.4	100	c,f	16.1	Yes
Mercury	0.8	9.9	mg/kg	SWSS-11-D	37 / 37	0 - 0	0.236	0.1	a,d,f	99	Yes
Nickel	37.4	4600	mg/kg	SWSS-27-D	37 / 37	0 - 0	19.96	13.6	a	338.2	Yes
Potassium	570	3340	mg/kg	SWSS-22-D	26 / 37	540 - 670	718.0	NV	--	NA	No
Selenium	2.1 J	11.2	mg/kg	SWSS-11-D	34 / 37	3.7 - 3.9	ND	0.027	a	414.8	Yes
Silver	0.43 J	54.8 J	mg/kg	SWSS-20-S	35 / 37	1.1 - 1.1	0.464	2	b,f	27.4	Yes
Sodium	28.4 J	1790 J	mg/kg	SWSS-09-D	6 / 36	530 - 670	114.11	NV	--	NA	No
Thallium	1.9 J	4.7	mg/kg	SWSS-05-D	24 / 37	2.6 - 3.4	ND	0.05692	a	82.6	Yes
Vanadium	33.5	760	mg/kg	SWSS-37-D	37 / 37	0 - 0	39.1	1.59	a	478	Yes
Zinc	466 J	7880 J	mg/kg	SWSS-11-D	37 / 37	0 - 0	233.7	6.62	a	1190.3	Yes

Notes:

¹ Background values were calculated by summing the values from samples (BKSS-01 through BKSS-10), including one half detection limits for non-detects, and calculating the mean value

² Screening Value Sources (complete citation in Section 4, References):

a EPA Region 5 ESLs 2003

b Efroymsen, R. A., et al. 1997a.

c Efroymsen, R. A., et al. 1997b. (Soil microorganisms)

d Efroymsen, R. A., et al. 1997b. (soil earthworms)

e Canadian Council of Ministers of the Environment (CCME) 2002.

f EPA 2001, Region 4

Chemicals presented in **bold** are COPCs.

NV = No Value

NA = Not Applicable

J = Estimated Value

JN = Tentatively Identified

ND = Not detected

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

COPC = contaminant of potential concern

Table 4-5
Summary of Chemicals of Potential Concern
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	Surface Soil		Sediment	Surface Water
	Process Area	Non-Process Area		
Volatile Organic Compounds				
2-Butanone	No	No	Yes	No
Acetone	No	No	Yes	No
Benzene	No	Yes	No	No
Ethylbenzene	No	Yes	No	No
Isopropylbenzene	No	Yes	No	No
Methylcyclohexane	No	Yes	No	No
Methyl tert-Butyl Ether	No	Yes	No	No
Xylenes (total)	No	Yes	No	No
Semi-Volatile Organic Compounds				
Acenaphthene	No	No	Yes	No
Acenaphthylene	No	No	Yes	No
Anthracene	Yes	Yes	Yes	No
Benzaldehyde	No	No	Yes	No
Benzo(a)anthracene	Yes	Yes	Yes	No
Benzo(a)pyrene	Yes	Yes	Yes	No
Benzo(b)fluoranthene	Yes	Yes	Yes	No
Benzo(g,h,i)perylene	No	No	Yes	No
Benzo(k)fluoranthene	Yes	Yes	Yes	No
bis(2-Ethylhexyl) phthalate	Yes	Yes	Yes	No
Butylbenzylphthalate	Yes	Yes	Yes	No
Carbazole	Yes	Yes	Yes	No
Chrysene	Yes	Yes	Yes	No
Dibenzo(a,h)anthracene	Yes	Yes	Yes	No
Dibenzofuran	Yes	Yes	Yes	No
Dimethylphthalate	No	No	Yes	No
2,6-Dinitrotoluene	No	Yes	No	No
Di-n-butylphthalate	No	No	Yes	No
Di-n-octylphthalate	Yes	Yes	Yes	No
Fluoranthene	Yes	Yes	Yes	No
Fluorene	Yes	Yes	Yes	No
Indeno(1,2,3-cd)pyrene	Yes	Yes	Yes	No
2-Methylnaphthalene	No	Yes	Yes	No
4-Methylphenol	No	No	Yes	No
Naphthalene	Yes	Yes	Yes	No
Phenanthrene	Yes	Yes	Yes	No
Pyrene	Yes	Yes	Yes	No
Total PAHs	Yes	Yes	Yes	No

Table 4-5
Summary of Chemicals of Potential Concern
Consolidated Iron and Metal Superfund Site
Newburgh, New York

Chemical Name	Surface Soil		Sediment	Surface Water
	Process Area	Non-Process Area		
Pesticides and Polychlorinated biphenyls				
4,4'-DDD	No	No	Yes	No
4,4'-DDE	Yes	Yes	Yes	No
4,4'-DDT	Yes	Yes	No	No
Total DDTs	Yes	Yes	Yes	No
Aldrin	No	Yes	No	No
Alpha-BHC	No	Yes	No	No
alpha-Chlordane	No	No	No	No
Aroclor-1016	No	Yes	No	No
Aroclor-1242	Yes	No	No	No
Aroclor-1248	Yes	Yes	Yes	No
Aroclor-1254	Yes	Yes	No	No
Aroclor-1260	Yes	Yes	No	No
Total PCBs	Yes	Yes	Yes	No
beta-BHC	No	Yes	No	No
Endosulfan sulfate	Yes	Yes	No	No
Endrin	Yes	Yes	No	No
Endrin aldehyde	No	Yes	Yes	No
Endrin ketone	No	Yes	Yes	No
gamma-BHC	No	Yes	No	No
Heptachlor	Yes	Yes	No	No
Heptachlor epoxide	No	Yes	No	No
Methoxychlor	Yes	Yes	No	No
Inorganics				
Aluminum	Yes	Yes	Yes	Yes
Antimony	Yes	Yes	Yes	No
Arsenic	Yes	Yes	Yes	No
Barium	Yes	Yes	Yes	No
Beryllium	No	Yes	No	No
Cadmium	Yes	Yes	Yes	No
Chromium	Yes	Yes	Yes	No
Cobalt	Yes	Yes	Yes	No
Copper	Yes	Yes	Yes	No
Cyanide	Yes	Yes	Yes	No
Iron	Yes	Yes	Yes	Yes
Lead	Yes	Yes	Yes	Yes
Manganese	Yes	Yes	Yes	Yes
Mercury	Yes	Yes	Yes	No
Nickel	Yes	Yes	Yes	No
Selenium	Yes	Yes	Yes	No
Silver	Yes	Yes	Yes	No
Thallium	No	Yes	Yes	No
Vanadium	Yes	Yes	Yes	No
Zinc	Yes	Yes	Yes	No

Notes:

Yes = Selected as COPCs

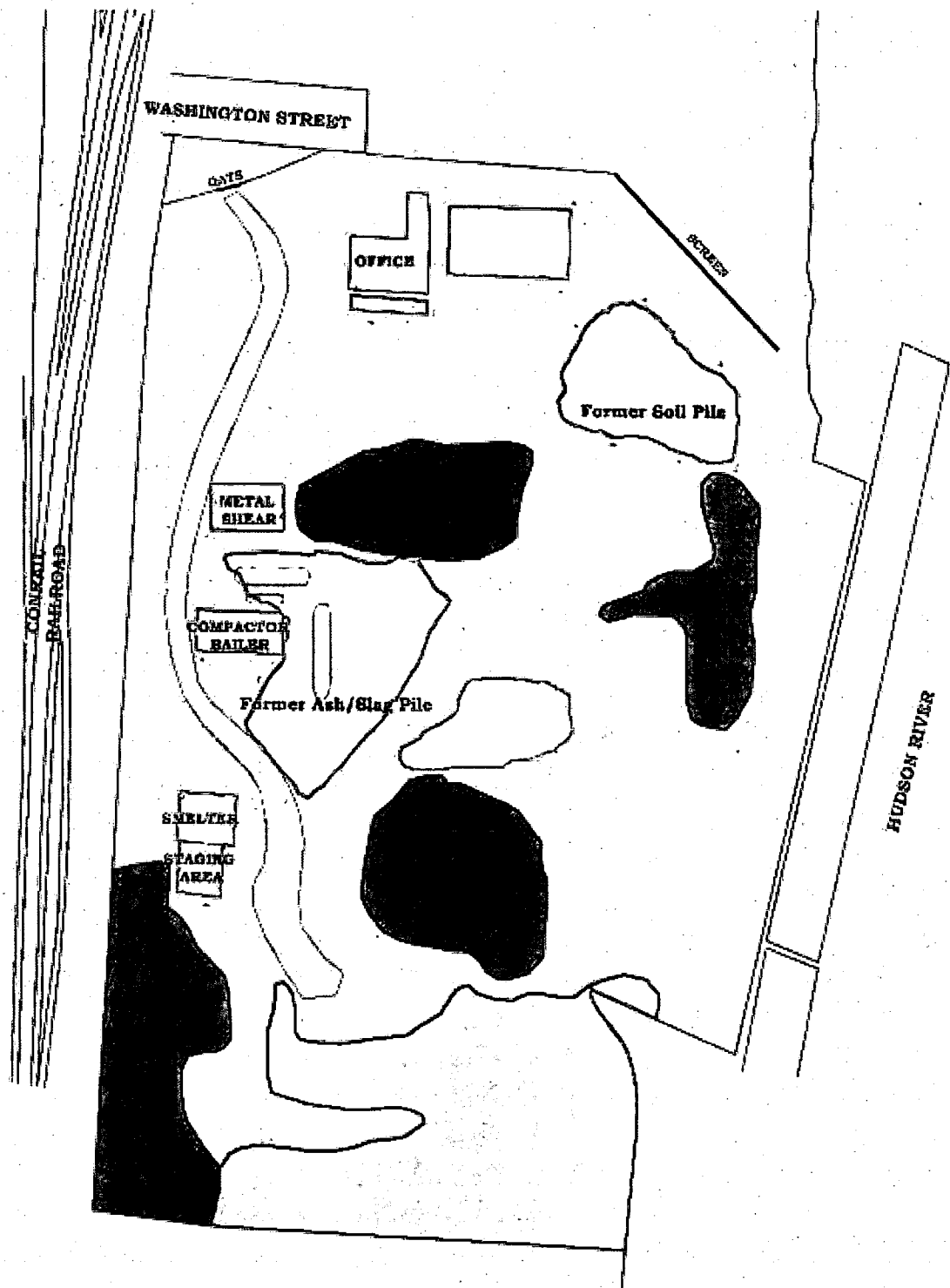
No = Not selected as COPCs



adapted from the USGS Newburgh, Wappinger Falls, Cornwall, and West Point 1:24,000 Topographic Quadrangles (1957, 1981, 1981, 1981)

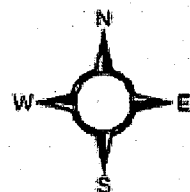
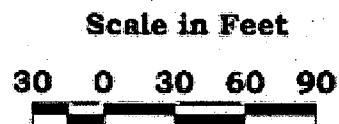


Figure 1-1
Site Location Map
 Consolidated Iron and Metal Superfund Site
 Newburgh, Orange County, New York



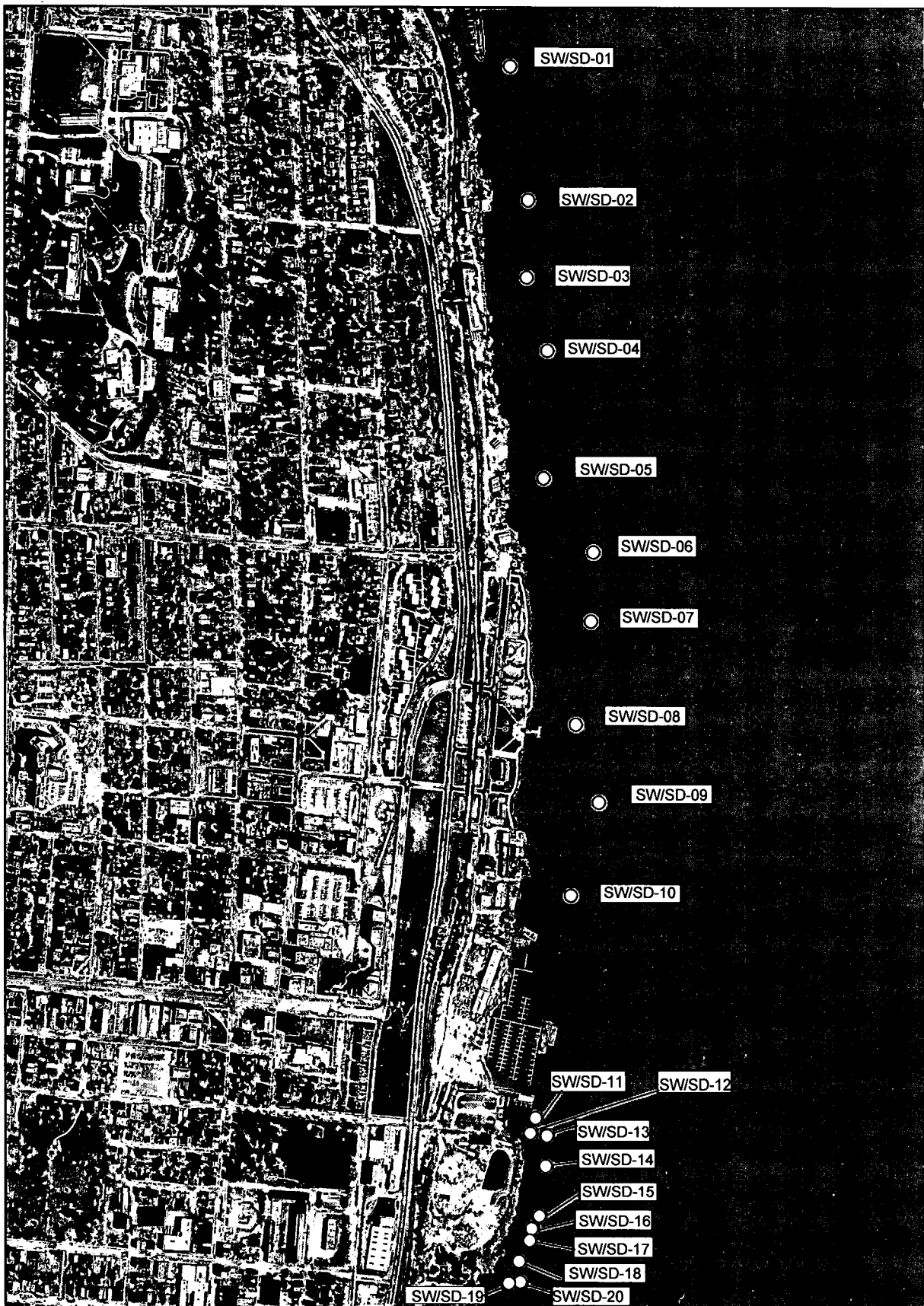
LEGEND:

-  Scrap Metal Piles
-  Tire Piles
-  Former Piles
-  Buildings
-  Standing Water



adopted from Weston (2000a)

Figure 1-2
Site Map
 Screening Level Ecological Risk Assessment
 Consolidate Iron and Metal Site
 Newburgh, Orange County, New York



Note: aerial photograph dated April 2001

LEGEND

- Sediment and Surface Water Sample Locations
- Background Sediment and Surface Water Sample Locations
- Site Boundary



0 275 550 1,100 Feet

Figure 2-1
Sediment and Surface Water Sample Locations
 Consolidated Iron and Metal Superfund Site
 Newburgh, Orange County, New York



Note: aerial photograph dated April 2001

LEGEND

- Site-Wide Soil Borings
- Monitoring Wells
- Process Area Soil Borings



0 25 50 100 150 Feet



Figure 2-2
Process Area Soil Borings, Site-Wide Soil Borings,
and Monitoring Well Locations
 Consolidated Iron and Metal Superfund Site
 Newburgh, Orange County, New York



Note: aerial photograph dated April 2001

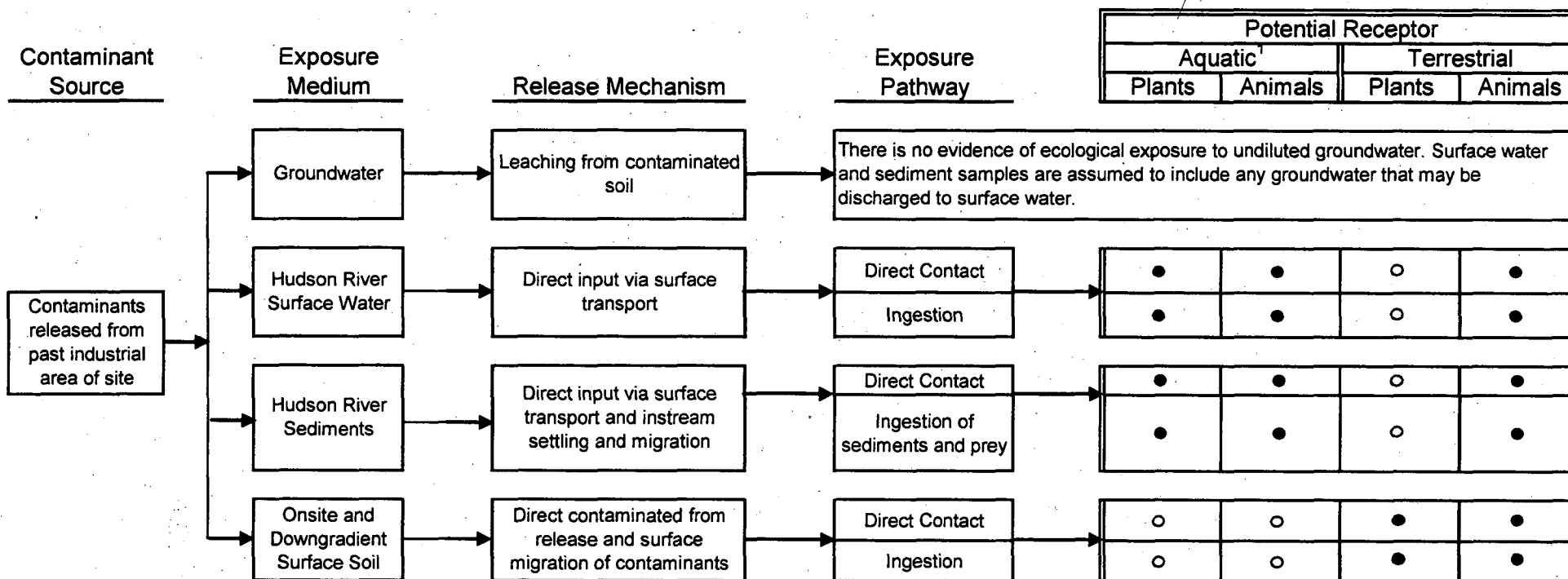
LEGEND

- Background Soil Boring Locations
- Site Boundary



0 262.5 525 1,050 Feet

Figure 2-3
Background Soil Boring Locations
Consolidated Iron and Metal Superfund Site
Newburgh, Orange County, New York



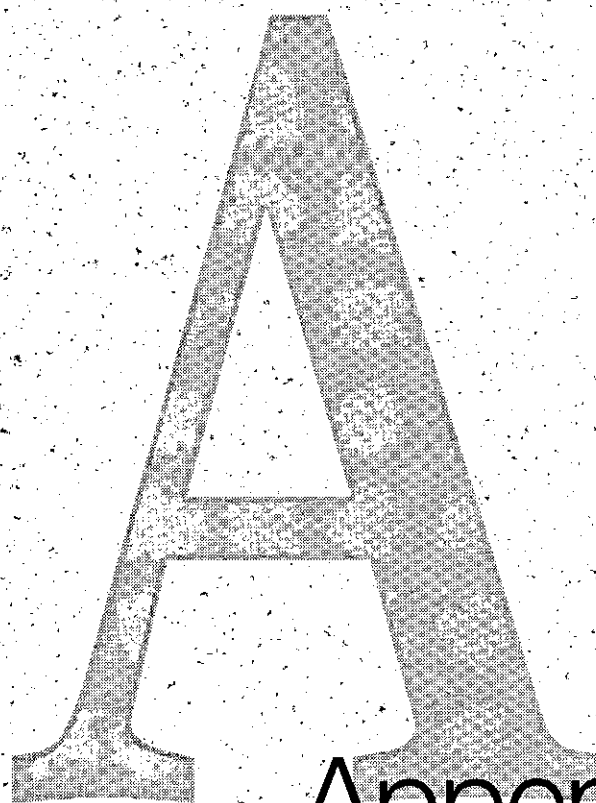
Notes:

¹ Aquatic plants and animals are assumed to include semi-aquatic biota and those tolerant of intermittently wet conditions

• = Complete exposure pathway

○ = Incomplete exposure pathway

Figure 2-4
Site Conceptual Exposure Model (SCEM)
 Consolidated Iron and Metal Superfund Site
 Newburgh, Orange County, New York



Appendix A

**New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources**

New York Natural Heritage Program

625 Broadway, Albany, New York 12233-4757

Phone: (518) 402-8935 • FAX: (518) 402-8925

Website: www.dec.state.ny.us



Erin M. Crotty
Commissioner

September 27, 2004

Nai chia Luke
C D M Federal Programs
Raritan Plaza, Raritan Center
Edison, NJ 08818-3142

Dear Mr. Luke:

In response to your recent request, we have reviewed the New York Natural Heritage Program databases with respect to an Environmental Assessment for the Remedial Investigation at the Consolidated Iron and Metal Site, Work #151-RICO-02LT, area as indicated on the map you provided, located at the Foot of Washington Street, City of Newburgh, Orange County.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and may not be released to the public without permission from the New York Natural Heritage Program.

This project location is adjacent to a designated Significant Coastal Fish and Wildlife Habitat. This habitat is part of New York State's Coastal Management Program (CMP), which is administered by the NYS Department of State (DOS). Projects which may impact the habitat are reviewed by DOS for consistency with the CMP. For more information regarding this designated habitat and applicable consistency review requirements, please contact:

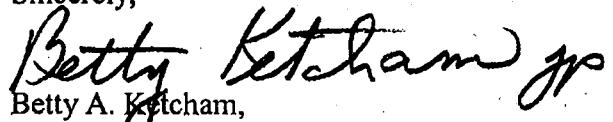
Jeff Zappieri or Vance Barr - (518) 474-6000
NYS Department of State
Division of Coastal Resources and Waterfront Revitalization
41 State Street, Albany, NY 12231

The presence of rare species may result in your project requiring additional permits, permit conditions, or review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should NOT be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

A handwritten signature in dark ink, appearing to read "Betty Ketcham", followed by a stylized flourish or set of initials.

Betty A. Ketcham,
Information Services
NY Natural Heritage Program

Encs.

cc: Reg. 3, Wildlife Mgr.
Reg. 3, Fisheries Mgr.
Shaun Keeler, Bureau of Fisheries, Albany, 5th floor

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,
Albany, NY 12233-4757
(518) 402-8935



Records within a 4 mile radius of project site

~This report contains **SENSITIVE** information that may not be released to the public without permission from the NY Natural Heritage Program.
~Refer to the User's Guide for explanations of codes, ranks and fields.

County: Columbia, Putnam, Rensselaer, Rockland, Orange, New York, Dutchess, Greene, Westchester, Albany, Ulster, Bronx
Town: Mount Pleasant, Saugerties, Bethlehem, City Of Rensselaer, City Of New York, Fishkill, City Of New York, Hyde Park, City Of Albany, Livingston, Greenburgh, Stuyvesant, City Of Kingston, Greenport, City Of Poughkeepsie, Lloyd, Coxsackie, Rhinebeck, City O

FISH

Acipenser brevirostrum

Shortnose Sturgeon	NY Legal Status: Endangered	NYS Rank: S1	EO Rank: **	Office Use 1091
	Federal Status: LE	Global Rank: G3	Last Report: **	

Location: Hudson River, Hudson River Troy Dam, Hudson River Stuyvesant **BOF**
General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

County: Dutchess
Town: City Of Beacon

VASCULAR PLANTS

Bidens bidentoides

Estuary Beggar-ticks	NY Legal Status: Rare	NYS Rank: S3	EO Rank: D	Office Use 496
	Federal Status:	Global Rank: G3	Last Report: 1988-09-07	S

Location: Fishkill Creek Mouth
General Quality and Habitat: 2 plants were seen, but there are probably more. The habitat is good to fair. A freshwater/brackish marsh that is small and fractured with lots of loosestrife and Trapa. Associated species: Bidens connata and Bidens cernua.

Bidens laevis

Smooth Bur-marigold	NY Legal Status: Threatened	NYS Rank: S2	EO Rank: BC	Office Use 5291
	Federal Status:	Global Rank: G5	Last Report: 1987-09-10	S

Location: Fishkill Creek Mouth
General Quality and Habitat: Fair occurrence in good quality marsh. A large creek mouth impounded by railroad. Fringes of tall marsh. Upper edge of brackish tidal marsh. Associated species: Impatiens and Polygonum sp.

Town: City Of Beacon, Fishkill

BIRDS

Haliaeetus leucocephalus

Bald Eagle	NY Legal Status: Threatened	NYS Rank: S2S3B,S2N	EO Rank: **	Office Use 10503
	Federal Status: LT,PDL	Global Rank: G4	Last Report: **	S

Location: Fishkill Creek Mouth, Denning Point **ESU**
General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

COMMUNITIES



Records within a 4 mile radius of project site

County: Dutchess

Town: City Of Beacon, Fishkill

COMMUNITIES

				Office Use
Brackish Intertidal Mudflats	NY Legal Status: Unprotected Federal Status:	NYS Rank: S1S2 Global Rank: G3G4	EO Rank: C Last Report: 2002-06-20	9390
	Location: Fishkill Creek Mouth			
	General Quality and Habitat:	The mudflats are very small, in stable but moderate condition within a large and relatively good landscape. A small bay area at the mouth of Fishkill Creek but to the east of the railroad line running along the eastern shore of the Hudson River. Fishkill Creek splits and the marsh occupies the majority of the area between the two branches plus regions along the north and south shores of the creek. Second growth forest and railroad tracks abut the marsh on the upland portions; brackish intertidal mudflats abut and interdigitate with the marsh around much of the tidal perimeter. The bay just west of the railroa		

VASCULAR PLANTS

Elatine americana

				Office Use
American Waterwort	NY Legal Status: Endangered Federal Status:	NYS Rank: S1 Global Rank: G4	EO Rank: H Last Report: 1936	370
	Location: Fishkill Creek Mouth			
	General Quality and Habitat:	Tidal flats.		

Isoetes riparia

				Office Use
Riverbank Quillwort	NY Legal Status: Endangered Federal Status:	NYS Rank: S1 Global Rank: G5?	EO Rank: H Last Report: 1936	9791
	Location: Fishkill Creek			
	General Quality and Habitat:	A creek mouth.		

Plantago cordata

				Office Use
Heartleaf Plantain	NY Legal Status: Threatened Federal Status:	NYS Rank: S3 Global Rank: G4	EO Rank: H Last Report: NO DATE	4503
	Location: Fishkill Creek Mouth			
	General Quality and Habitat:	A tidal marsh and mudflats.		

Sagittaria montevidensis var. *spongiosa*

				Office Use
Spongy Arrowhead	NY Legal Status: Threatened Federal Status:	NYS Rank: S2 Global Rank: G5T4	EO Rank: H Last Report: 1936-08-23	8072
	Location: Fishkill Creek Mouth			
	General Quality and Habitat:	Freshwater tidal mudflats.		

Solidago sempervirens var. *mexicana*

				Office Use
Seaside Goldenrod	NY Legal Status: Endangered Federal Status:	NYS Rank: S1 Global Rank: G5T5?	EO Rank: H Last Report: 1877	7296
	Location: Fishkill Landing			
	General Quality and Habitat:	Bank of river.		

Town: Fishkill

Natural Heritage Report on Rare Species and Ecological Communities



Records within a 4 mile radius of project site

County: Dutchess

Town: Fishkill

BIRDS

Falco peregrinus

Peregrine Falcon

NY Legal Status: Endangered

Federal Status:

NYS Rank: S3B

Global Rank: G4

EO Rank: **

Last Report: **

Office Use

6659

Location: Newburgh-Beacon Bridge

ESU

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

Town: Fishkill, City Of Beacon

COMMUNITIES

Brackish Tidal Marsh

NY Legal Status: Unprotected

Federal Status:

NYS Rank: S2S3

Global Rank: G4

EO Rank: BC

Last Report: 2002-06-20

Office Use

7611

Location: Fishkill Creek Mouth

General Quality and Habitat: The marsh is small, in good condition in relatively good landscape position for the region. A small bay area at the mouth of Fishkill Creek but to the east of the railroad line running along the eastern shore of the Hudson River. Fishkill Creek splits and the marsh occupies the majority of the area between the two branches plus regions along the north and south shores of the creek. Second growth forest and railroad tracks abut the marsh on the upland portions; brackish intertidal mudflats abut and interdigitate with the marsh around much of the tidal perimeter. The bay just west of the railroad.

OTHER

Waterfowl Concentration Area

NY Legal Status: Unprotected

Federal Status:

NYS Rank: S3S4

Global Rank: GNR

EO Rank: E

Last Report: 1985

Office Use

920

S

Location: Fishkill Creek Mouth

General Quality and Habitat: Warm-water stream, mudflats, emergent marsh, 80 acre hay and wooded sand peninsula.

Raptor Concentration Area

NY Legal Status: Unprotected

Federal Status:

NYS Rank: SNR

Global Rank: GNR

EO Rank: E

Last Report: 1985

Office Use

1546

S

Location: Fishkill Marsh

General Quality and Habitat: Warmwater stream, mudflats, emergent marsh, 80 acre hay and wooded sand peninsula.

Anadromous Fish Concentration Area

NY Legal Status: Unprotected

Federal Status:

NYS Rank: S3

Global Rank: GNR

EO Rank: E

Last Report: 1986

Office Use

7940

S

Location: Fishkill Creek Mouth

General Quality and Habitat: Pristine site. Extensive areas of mudflats, emergent marsh, subtidal beds of aquatic vegetation.

County: Dutchess, Putnam

Town: City Of Beacon, Fishkill, Philipstown

BIRDS

Natural Heritage Report on Rare Species and Ecological Communities



Records within a 4 mile radius of project site

County: Dutchess, Putnam

Town: City Of Beacon, Fishkill, Philipstown

BIRDS

Ixobrychus exilis

Least Bittern

NY Legal Status: Threatened

NYS Rank: S3B,S1N

EO Rank: **

Office Use

10214

Federal Status:

Global Rank: G5

Last Report: **

Location: Fishkill

ESU

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

County: Orange

Town: Cornwall

VASCULAR PLANTS

Isoetes riparia

Riverbank Quillwort

NY Legal Status: Endangered

NYS Rank: S1

EO Rank: H

Office Use

10470

Federal Status:

Global Rank: G5?

Last Report: 1936

Location: Moodna Creek Mouth

General Quality and Habitat: A creek mouth.

Sagittaria montevidensis var. *spongiosa*

Spongy Arrowhead

NY Legal Status: Threatened

NYS Rank: S2

EO Rank: CD

Office Use

975

Federal Status:

Global Rank: G5T4

Last Report: 1990-07-12

Location: Cornwall Coalyard

General Quality and Habitat: Estimate of 10-50 plants along former coalyard along river. Sparsely vegetated intertidal sediment deposition site behind decayed cribbing from old coalyard terminal. Plants growing among *Sagittaria subulata* in small patches (several square meters). Freshwater to oligohaline. Substrate mostly medium to fine sand. Significant fecal deposition from waterfowl. Other species: *Peltandra virginica*, *Scirpus pungens*, *Zannichellia palustris*.

Town: Cornwall, New Windsor

BIRDS

Haliaeetus leucocephalus

Bald Eagle

NY Legal Status: Threatened

NYS Rank: S2S3B,S2N

EO Rank: **

Office Use

10395

Federal Status: LT,PDL

Global Rank: G4

Last Report: **

S

Location: Moodna Creek Mouth, Sloop Hill

ESU

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

Ixobrychus exilis

Least Bittern

NY Legal Status: Threatened

NYS Rank: S3B,S1N

EO Rank: **

Office Use

8403

Federal Status:

Global Rank: G5

Last Report: **

Location: Moodna Creek Mouth

ESU

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

COMMUNITIES

Natural Heritage Report on Rare Species and Ecological Communities



Records within a 4 mile radius of project site

County: Orange

Town: Cornwall, New Windsor

COMMUNITIES

Brackish Tidal Marsh	NY Legal Status: Unprotected Federal Status:	NYS Rank: S2S3 Global Rank: G4	EO Rank: B Last Report: 2002-07-19	Office Use 8492
Location: Moodna Creek Mouth				
General Quality and Habitat: The marsh is moderate to small-sized, in good condition within a moderate quality landscape. A relatively large marsh complex at the mouth of Moodna Creek crossed by a railroad bridge at the mouth and a road (Route 9W) just beyond the upstream end. Additional wetland is forested or shrubby. Brackish intertidal mudflats abut and interdigitate with some of the marsh. A road, sewage treatment plant, and industrial building occur at one edge, and a residential home and mostly second growth forest along the other edge. Moodna Creek flows among the patches and effectively isolates some of the patches				

OTHER

Waterfowl Concentration Area	NY Legal Status: Unprotected Federal Status:	NYS Rank: S3S4 Global Rank: GNR	EO Rank: E Last Report: 1984	Office Use 1932 S
Location: Moodna Creek Mouth				
General Quality and Habitat: Large, medium gradient stream with lower mile of stream in tidal range with emergent marsh and wooded islands and tidal flat.				

Raptor Concentration Area	NY Legal Status: Unprotected Federal Status:	NYS Rank: SNR Global Rank: GNR	EO Rank: E Last Report: 1984	Office Use 3587 S
Location: Moodna Creek Mouth				
General Quality and Habitat: Large medium gradient stream with lower mile of stream in tidal range with emergent marsh and wooded islands and tidal flat.				

VASCULAR PLANTS

Bidens hyperborea var. *hyperborea*

Estuary Beggar-ticks	NY Legal Status: Endangered Federal Status:	NYS Rank: S1 Global Rank: G4T2T4	EO Rank: H Last Report: 1936-08-27	Office Use 7126
Location: Moodna Creek Mouth				
General Quality and Habitat: Freshwater tidal mud flats.				

Elatine americana

American Waterwort	NY Legal Status: Endangered Federal Status:	NYS Rank: S1 Global Rank: G4	EO Rank: H Last Report: 1936	Office Use 5112
Location: Moodna Creek Mouth				
General Quality and Habitat: Tidal flats.				

Natural Heritage Report on Rare Species and Ecological Communities



Records within a 4 mile radius of project site

County: Orange

Town: Cornwall, New Windsor

VASCULAR PLANTS

Sagittaria montevidensis var. *spongiosa*

Spongy Arrowhead	NY Legal Status: Threatened	NYS Rank: S2	EO Rank: BC	Office Use: 9467
	Federal Status:	Global Rank: G5T4	Last Report: 1990-10-10	S

Location: Moodna Creek Mouth

General Quality and Habitat: Small, localized occurrence. Small patches of mudflats along creek and in cove. 1986-08-22: mucky intertidal edges of marsh and on broad mudflats, Associated species: *Sagittaria subulata* and little else.

Town: New Windsor

BIRDS

Haliaeetus leucocephalus

Bald Eagle	NY Legal Status: Threatened	NYS Rank: S2S3B,S2N	EO Rank: **	Office Use: 1153
	Federal Status: LT,PDL	Global Rank: G4	Last Report: **	

Location: Moodna Creek Mouth, Sloop Hill

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

Town: New Windsor, City Of Newburgh

VASCULAR PLANTS

Agrimonia rostellata

Woodland Agrimony	NY Legal Status: Threatened	NYS Rank: S2	EO Rank: CD	Office Use: 10791
	Federal Status:	Global Rank: G5	Last Report: 2003-09-09	

Location: Quassaick Creek

General Quality and Habitat: There are only 3 plants in a high disturbed setting surrounded by industrial development. (Associated ecological community(ies): Floodplain forest with cottonwood, ash-leaf maple, sycamore, American elm, black willow, American hornbeam, spicebush, *Viburnum prunifolium*, Virginia creeper, poison ivy. Also many invasives: *Rhamnus cathartica*, *Lonicera morrowii*, multiflora rose, *Ailanthus*, Norway maple, Japanese honeysuckle, Oriental bittersweet. Herbs: skunk cabbage, *Geum canadense*, *Solidago flexicaulis*, *Onoclea*, *Impatiens* (both spp.), *Cardamine concantenata*, and invasives: mugwort & garlic mus

Town: New Windsor, Cornwall

COMMUNITIES

Brackish Intertidal Mudflats	NY Legal Status: Unprotected	NYS Rank: S1S2	EO Rank: B	Office Use: 59
	Federal Status:	Global Rank: G3G4	Last Report: 2002-07-19	

Location: Moodna Creek Mouth

General Quality and Habitat: A small occurrence in good condition within a relatively good landscape context. Moodna Creek river delta mudflats with large patches east of the railroad tracks in the Hudson River and some smaller patches west of the railroad tracks adjacent the brackish tidal marshes. Upland terrestrial communities have many invasives but offer some buffer, while the Hudson River tidal river community abuts and overlaps this community as the matrix community.

OTHER

Natural Heritage Report on Rare Species and Ecological Communities



Records within a 4 mile radius of project site

County: Orange

Town: New Windsor, Cornwall

OTHER

Anadromous Fish
Concentration Area

NY Legal Status: Unprotected
Federal Status:

NYS Rank: S3
Global Rank: GNR

EO Rank: E
Last Report: 1987

Office Use
9587
S

Location: Moodna Creek Mouth

General Quality and Habitat: Large medium gradient stream with lower mile of stream in tidal range with emergent marsh and wooded islands and tidal flats.

Town: Newburgh, New Windsor

BIRDS

Bartramia longicauda

Upland Sandpiper

NY Legal Status: Threatened
Federal Status:

NYS Rank: S3B
Global Rank: G5

EO Rank: **
Last Report: **

Office Use
7655

Location: Stewart International Airport

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

ESU

31 Records Processed

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,
Albany, NY 12233-4757
(518) 402-8935



Records 15 miles downstream of project site

-This report contains **SENSITIVE** information that may not be released to the public without permission from the NY Natural Heritage Program.
-Refer to the User's Guide for explanations of codes, ranks and fields.

County: Columbia, Putnam, Rensselaer, Rockland, Orange, New York, Dutchess, Greene, Westchester, Albany, Ulster, Bronx
Town: Mount Pleasant, Saugerties, Bethlehem, City Of Rensselaer, City Of New York, Fishkill, City Of New York, Hyde Park, City Of Albany, Livingston, Greenburgh, Stuyvesant, City Of Kingston, Greenport, City Of Poughkeepsie, Lloyd, Coxsackie, Rhinebeck, City O

FISH

Acipenser brevirostrum

Shortnose Sturgeon	NY Legal Status: Endangered	NYS Rank: S1	EO Rank: **	Office Use
	Federal Status: LE	Global Rank: G3	Last Report: **	1091

Location: Hudson River, Hudson River Troy Dam, Hudson River Stuyvesant **BOF**
General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

County: Orange, Putnam, Westchester, Rockland, Dutchess
Town: Highlands, Cornwall, Philipstown, Cortlandt, Stony Point, Fishkill, City Of Peekskill
OTHER

Anadromous Fish Concentration Area	NY Legal Status: Unprotected	NYS Rank: S3	EO Rank: E	Office Use
	Federal Status:	Global Rank: GNR	Last Report: 1986	9586 S

Location: Hudson River Mile 44-56
General Quality and Habitat: 12 mile section of deep turbulent narrow river.

County: Putnam
Town: Philipstown
BIRDS

Haliaeetus leucocephalus

Bald Eagle	NY Legal Status: Threatened	NYS Rank: S2S3B,S2N	EO Rank: **	Office Use
	Federal Status: LT,PDL	Global Rank: G4	Last Report: **	5782 S

Location: Constitution Island **ESU**
General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

VASCULAR PLANTS

Eleocharis aestuum

Tidal Spikerush	NY Legal Status: Unprotected	NYS Rank: S1	EO Rank: F	Office Use
	Federal Status:	Global Rank: G3	Last Report: 1936	9650

Location: Constitution Island
General Quality and Habitat: No plants were found although potential habitat does remain in an area with numerous invasive species.

Sabatia campanulata

Slender Marsh-pink	NY Legal Status: Endangered	NYS Rank: S1	EO Rank: F	Office Use
	Federal Status:	Global Rank: G5	Last Report: NO DATE	3437

Location: Constitution Island
General Quality and Habitat: No plants were found.

Natural Heritage Report on Rare Species and Ecological Communities



Records 15 miles downstream of project site

County: Rockland
Town: Stony Point

BIRDS

Falco peregrinus

Peregrine Falcon

NY Legal Status: Endangered

Federal Status:

NYS Rank: S3B

Global Rank: G4

EO Rank: **

Last Report: **

Office Use

6201

Location: Bear Mountain Bridge

ESU

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

VASCULAR PLANTS

Bidens bidentoides

Estuary Beggar-ticks

NY Legal Status: Rare

Federal Status:

NYS Rank: S3

Global Rank: G3

EO Rank: H

Last Report: 1936

Office Use

1878

Location: Iona Island

General Quality and Habitat:

Elatine americana

American Waterwort

NY Legal Status: Endangered

Federal Status:

NYS Rank: S1

Global Rank: G4

EO Rank: H

Last Report: 1936

Office Use

825

Location: Iona Island

General Quality and Habitat: Tidal flats.

Eleocharis aestuum

Tidal Spikerush

NY Legal Status: Unprotected

Federal Status:

NYS Rank: S1

Global Rank: G3

EO Rank: F

Last Report: 1936

Office Use

944

Location: Iona Island

General Quality and Habitat: No plants were found in an area dominated by Phragmites. A large marsh.

Isoetes riparia

Riverbank Quillwort

NY Legal Status: Endangered

Federal Status:

NYS Rank: S1

Global Rank: G5?

EO Rank: H

Last Report: 1936-08-27

Office Use

7682

Location: Iona Island

General Quality and Habitat:

Sabatia dodecandra var. *dodecandra*

Large Marsh-pink

NY Legal Status: Unprotected

Federal Status:

NYS Rank: SX

Global Rank: G5?

EO Rank: H

Last Report: 1936-08-27

Office Use

10199

Location: Iona Island

General Quality and Habitat: Tidal salt marsh.

County: Rockland, Westchester
Town: Stony Point, Cortlandt, City Of Peekskill

BIRDS

Natural Heritage Report on Rare Species and Ecological Communities



Records 15 miles downstream of project site

County: Rockland, Westchester

Town: Stony Point, Cortlandt, City Of Peekskill

BIRDS

Haliaeetus leucocephalus

Bald Eagle

NY Legal Status: Threatened

NYS Rank: S2S3B,S2N

EO Rank: **

Office Use

43

Federal Status: LT,PDL

Global Rank: G4

Last Report: **

S

Location: Iona Island

ESU

General Quality and Habitat: **For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager or NYS DEC Endangered Species Unit at 518-402-8859.

12 Records Processed

Faxed 11/12/04



United States Department of the Interior

FISH AND WILDLIFE SERVICE

3817 Luker Road
Cortland, NY 13045



November 12, 2004

Dr. Nai-chia Luke
Senior Ecological Specialist
CDM Federal Programs Corporation
Raritan Plaza I, Raritan Center
Edison, NJ 08818-3142

Dear Dr. Luke:

This responds to your letter of September 2, 2004, requesting information on the presence of Federally listed or proposed endangered or threatened species in the vicinity of the Remedial Investigation/Feasibility Study of the Consolidated Iron and Metal Site at the foot of Washington Street in the City of Newburgh, Orange County, New York.

The Indiana bat (*Myotis sodalis*), a Federally listed endangered species, is known to occur at an Onondaga County hibernaculum, approximately 20.7 miles from the project site. In addition to their presence in and immediately around over-wintering sites, Indiana bats may move up to 330 miles beyond hibernacula to summer habitat (Kurta and Murray 2002). Suitable potential summer roosting/maternity habitat is characterized by trees, (dead, dying or living) or snags, greater than or equal to 5 inches diameter breast height, that have characteristics typical of roost sites for Indiana bats. These include trees having exfoliating or defoliating bark, or cracks, crevices, or holes that could be used by Indiana bats as a roost. Furthermore, wetlands, streams, associated floodplain forests, ponds, and impoundments provide preferred foraging habitat for pregnant and lactating bats, some of which may fly up to 1.5 miles from upland roosts to feed. Indiana bats also forage within the canopy of upland forests, over clearings with early successional vegetation (old fields) along the borders of croplands, along wooded fencerows, and over farm ponds in pastures (U.S. Fish and Wildlife Service 1999).

Thus, our evaluation needed to consider both the distance of the construction site to the hibernaculum and the availability of potential summer roost trees that could be impacted by the proposed project. The nature of the habitat at the Consolidated Iron and Metal Site was discussed during a telephone conversation on October 25, 2004, and a series of photographs have been provided to us to assist us in our evaluation of potential roost sites on the property. Further, you informed us in an October 25, 2004, email that, while trees are present on the perimeter, they will not be disturbed. Based on this information, we believe that potentially suitable Indiana bat roosting habitat will not be disturbed at the Consolidated Iron and Metal Site and, therefore, further coordination or consultation with respect to the Indiana bat is not needed.

The bald eagle (*Haliaeetus leucocephalus*), a Federally listed threatened species, is known to occur in the vicinity of the proposed project area. Multiple winter roost sites and foraging areas

for the bald eagle are found along the Hudson River in the project area. Bald eagles are often associated with large trees in areas buffered from prevailing winds, usually near open water habitat for foraging, but also are found several miles from feeding areas. The same winter roost sites may be used for many years by bald eagles.

It appears from aerial photographs you provided that the Hudson River shoreline in the project area includes a number of trees, which we understand will not be disturbed. As the remedial plan is developed, however, the project site should be evaluated by a qualified person as to the presence of suitable roosting/foraging habitat for the bald eagle, and which, if any, project activities might result in adverse impacts to the bald eagle. This information and the results of the habitat evaluation should be provided to this office and they will be used to evaluate potential impacts to the eagles, and to determine the need for further coordination or consultation between the lead Federal agency, the U.S. Environmental Protection Agency, and the U.S. Fish and Wildlife Service (Service), pursuant to the Endangered Species Act (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Except for the potential for the Indiana bat, the bald eagle, and occasional transient individuals, no other Federally listed or proposed endangered or threatened species under our jurisdiction are known to exist in the project impact area. In addition, no habitat in the project impact area is currently designated or proposed "critical habitat" in accordance with provisions of the Endangered Species Act. Should project plans change, or if additional information on listed or proposed species or critical habitat becomes available, this determination may be reconsidered. The most recent compilation of Federally listed and proposed endangered and threatened species in New York* is available for your information. If your project is not completed within one year from the date of this determination, we recommend that you contact us to ensure that the listed species presence/absence information for your proposed project is current.

Federally listed endangered and threatened marine species may be found near the project area. These species are under the jurisdiction of the National Oceanic and Atmospheric Administration/Fisheries (NOAA/F). You should contact Mr. Stanley Gorski, Habitat Conservation Division, Field Offices Supervisor, NOAA/F, James J. Howard Marine Sciences Laboratory, 74 Magruder Road, Highlands, NJ 07732, for additional information (telephone: [732] 872-3037).

The above comments pertaining to endangered species under our jurisdiction are provided pursuant to the Endangered Species Act. This response does not preclude additional Service comments under other legislation.

The New York State Department of Environmental Conservation (State) requests that you be advised that the peregrine falcon (*Falco peregrinus*) is known to occur in the vicinity of the proposed project. The Indiana bat and peregrine falcon are listed as endangered and the bald eagle is listed as threatened by the State. The project should, therefore, be coordinated with the State. The State contact for the Indiana bat, peregrine falcon, and bald eagle is Mr. Peter Nye, Endangered Species Unit, 625 Broadway, Albany, NY 12233 (telephone: [518] 402-8859).

For additional information on fish and wildlife resources or State-listed species, we suggest you contact the appropriate New York State Department of Environmental Conservation regional office(s),* and:

New York State Department of Environmental Conservation
New York Natural Heritage Program Information Services
625 Broadway
Albany, NY 12233-4757
(518) 402-8935

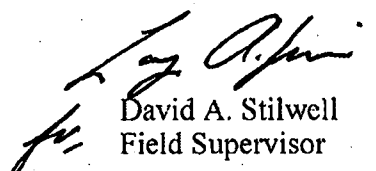
Since wetlands may be present, you are advised that National Wetlands Inventory (NWI) maps may or may not be available for the project area. However, while the NWI maps are reasonably accurate, they should not be used in lieu of field surveys for determining the presence of wetlands or delineating wetland boundaries for Federal regulatory purposes. Copies of specific NWI maps can be obtained from:

Cornell Institute for Resource Information Systems
302 Rice Hall
Cornell University
Ithaca, NY 14853-5601
(607) 255-6520
web: <http://iris.css.cornell.edu>
email: cornell-iris@cornell.edu

Work in certain waters of the United States, including wetlands, may require a permit from the U.S. Army Corps of Engineers (Corps). If a permit is required, in reviewing the application pursuant to the Fish and Wildlife Coordination Act, the Service may concur, with or without recommending additional permit conditions, or recommend denial of the permit depending upon potential adverse impacts on fish and wildlife resources associated with project construction or implementation. The need for a Corps permit may be determined by contacting the appropriate Corps office(s).*

If you require additional information or assistance please contact Michael Stoll at (607) 753-9334.

Sincerely,


David A. Stilwell
Field Supervisor

*Additional information referred to above may be found on our website at:
<http://nyfo.fws.gov/es/esdesc.htm>.

cc: NYSDEC, New Paltz, NY (Environmental Permits)
NYSDEC, Albany, NY (Natural Heritage Program)
NYSDEC, Albany, NY (Endangered Species Unit, Attn: P. Nye)
NYSDEC, New Paltz, NY (Hudson River Fisheries Unit, Attn: K. Hatalla)
NOAA/F, Highlands, NJ (Attn: S. Gorski)
NOAA/F, Milford, CT (Attn: M. Ludwig)
EPA, Div. of Environmental Planning & Protection, New York, NY
COE, New York, NY

B

Appendix
B

Site-Wide Surface Soil Samples

Consolidated Iron
Site-Wide Surface Soils
Volatile Organic Compounds

9/22/2005
Page1

Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-01-D		SWSS-02-D		SWSS-03-D		SWSS-04-D		SWSS-05-D		SWSS-06-D	
				6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/15/2004 0 to 12 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	11 UJ		10 UJ		10 UJ		10 U		10 UJ		10 UJ	
67-64-1	Acetone	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		2 J	
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 UJ		10 U		10 U	
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	11 U		10 UJ		10 UJ		10 U		10 UJ		10 UJ	
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	11 U		10 UJ		10 UJ		10 U		10 UJ		10 UJ	
67-66-3	Chloroform	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
71-43-2	Benzene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
108-88-3	Toluene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	11 U		10 U		10 U		10 U		10 U		10 U	

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-01-D	SWSS-02-D	SWSS-03-D	SWSS-04-D	SWSS-05-D	SWSS-06-D
				6/14/2004 0 to 12 in	6/14/2004 0 to 12 in	6/14/2004 0 to 12 in	6/14/2004 0 to 12 in	6/14/2004 0 to 12 in	6/15/2004 0 to 12 in
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	7 J	10 U
100-42-5	Styrene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	11 R	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	11 U	10 U	10 U	10 U	10 U	10 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-07-D		SWSS-08-S		SWSS-09-D		SWSS-10-D		SWSS-11-D		SWSS-12-D	
				6/15/2004 0 to 12 in		6/15/2004 0 to 2 in		6/15/2004 0 to 12 in		6/15/2004 0 to 12 in		6/15/2004 0 to 12 in		6/16/2004 0 to 12 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		30	
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	10 UJ		11 UJ		11 UJ		10 UJ		11 UJ		12 UJ	
67-64-1	Acetone	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	10 U		11 UJ		11 UJ		10 UJ		11 UJ		12 UJ	
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	10 U		11 U		11 UJ		10 U		11 U		12 U	
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 UJ		11 U		11 U		10 U		11 U		12 U	
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	10 UJ		11 UJ		11 UJ		10 UJ		11 UJ		12 UJ	
67-66-3	Chloroform	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
71-43-2	Benzene	TCL-VOA-S	ug/kg	10 U		11 U		5 J		10 U		11 U		12 U	
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	10 U		11 U		6 J		10 U		11 U		12 U	
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	10 U		11 U		11 UJ		10 U		11 U		12 U	
108-88-3	Toluene	TCL-VOA-S	ug/kg	10 U		11 U		18 J		10 U		11 U		12 U	
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	10 U		11 U		11 UJ		10 U		11 U		12 U	
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	10 U		11 U		11 UJ		10 U		11 U		12 U	
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	10 U		11 U		11 U		10 U		11 U		12 U	
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	10 U		11 U		11 UJ		10 U		11 U		12 U	
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	10 U		11 U		11 UJ		10 U		11 U		12 U	

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-07-D	SWSS-08-S	SWSS-09-D	SWSS-10-D	SWSS-11-D	SWSS-12-D
				6/15/2004 0 to 12 in	6/15/2004 0 to 2 in	6/15/2004 0 to 12 in	6/15/2004 0 to 12 in	6/15/2004 0 to 12 in	6/16/2004 0 to 12 in
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	10 U	5 J	31 J	10 U	11 U	12 U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	10 U	12	150 J	10 U	11 U	12 U
100-42-5	Styrene	TCL-VOA-S	ug/kg	10 U	11 U	3 J	10 U	11 U	12 U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	10 U	11 U	11 U	10 U	11 U	12 U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	10 U	11 U	2 J	10 U	11 U	12 U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	10 U	11 U	11 UJ	10 U	11 U	12 U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	11 U	11 UJ	10 U	11 U	12 U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	11 U	11 UJ	10 U	11 U	12 U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	11 U	11 UJ	10 U	11 U	12 U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	10 U	11 U	11 UJ	10 U	11 U	12 U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	10 U	11 U	11 UJ	10 U	11 U	12 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-13-D		SWSS-13-D-DUP SWSS-55-D		SWSS-14-S		SWSS-15-S		SWSS-16-D		SWSS-17-S	
				6/16/2004 0 to 12 in		6/16/2004 0 to 12 in		6/16/2004 0 to 2 in		6/16/2004 0 to 2 in		6/16/2004 0 to 12 in		6/17/2004 0 to 2 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	11	UJ	10	UJ	10	UJ	10	U	10	U	12	U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	4	J	10	U	12	U
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
67-64-1	Acetone	TCL-VOA-S	ug/kg	11	U	10	UJ	20		10	U	10	U	12	U
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	11	UJ	10	UJ	10	UJ	10	U	10	U	12	U
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	11	UJ	10	UJ	10	UJ	10	UJ	10	UJ	3	J
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
67-66-3	Chloroform	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
71-43-2	Benzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
108-88-3	Toluene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-13-D		SWSS-13-D-DUP SWSS-55-D		SWSS-14-S		SWSS-15-S		SWSS-16-D		SWSS-17-S	
				6/16/2004 0 to 12 in		6/16/2004 0 to 12 in		6/16/2004 0 to 2 in		6/16/2004 0 to 2 in		6/16/2004 0 to 12 in		6/17/2004 0 to 2 in	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
100-42-5	Styrene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	U	10	U	10	U	12	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-18-D		SWSS-19-D		SWSS-20-S		SWSS-21-D		SWSS-22-D		SWSS-23-D	
				6/17/2004 0 to 12 in		6/17/2004 0 to 12 in		6/17/2004 0 to 2 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	10	U	10	UJ	10	UJ	11	UJ	11	U	10	U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
67-64-1	Acetone	TCL-VOA-S	ug/kg	32		10	U	10	U	11	U	11	U	10	U
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	3	J	10	UJ	10	UJ	11	UJ	11	UJ	10	UJ
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	360	J	10	UJ	10	UJ	11	UJ	11	U	10	U
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
67-66-3	Chloroform	TCL-VOA-S	ug/kg	4	J	10	U	10	U	11	U	11	U	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	120		10	U	10	U	11	U	11	U	10	U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
71-43-2	Benzene	TCL-VOA-S	ug/kg	61		10	U	10	U	11	U	11	U	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	190		10	U	10	U	11	U	11	U	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	10	U	10	U	10	UJ	11	U	11	U	10	U
108-88-3	Toluene	TCL-VOA-S	ug/kg	10	U	10	U	10	UJ	11	U	11	U	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	10	U	10	U	10	UJ	11	U	11	U	10	U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	10	U	10	U	10	UJ	11	U	11	U	10	U
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U	11	U	11	U	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	10	U	10	U	10	UJ	11	U	11	U	10	U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	10	U	10	U	10	UJ	11	U	11	U	10	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-18-D	SWSS-19-D	SWSS-20-S	SWSS-21-D	SWSS-22-D	SWSS-23-D
				6/17/2004 0 to 12 in	6/17/2004 0 to 12 in	6/17/2004 0 to 2 in	6/18/2004 0 to 12 in	6/18/2004 0 to 12 in	6/18/2004 0 to 12 in
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	97	10 U	10 UJ	11 U	11 U	10 U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	140	10 U	10 UJ	11 U	11 U	10 U
100-42-5	Styrene	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	10 U	10 U	10 U	11 U	11 U	10 U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	64	10 U	10 UJ	11 U	11 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 UJ	11 U	11 U	10 U

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			Sample Code	SWSS-24-D		SWSS-25-D		SWSS-26-S		SWSS-27-D		SWSS-28-D		SWSS-29-D	
			Sample Name	6/18/2004		6/21/2004		6/21/2004		6/21/2004		6/21/2004		6/22/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 12 in		0 to 12 in		0 to 2 in		0 to 12 in		0 to 12 in		0 to 12 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	U	10	UJ
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	UJ	10	U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	UJ	10	U
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	U	10	UJ
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	U	10	U
67-64-1	Acetone	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	11	UJ	10	UJ	10	UJ	10	UJ	10	U	10	U
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	U	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	U	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	11	U	10	UJ	10	UJ	10	UJ	10	U	10	U
67-66-3	Chloroform	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
71-43-2	Benzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	11	U	10	U	10	U	10	U	10	U	10	U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	11	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	11	UJ	10	UJ	10	UJ	10	UJ	10	U	10	UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-24-D		SWSS-25-D		SWSS-26-S		SWSS-27-D		SWSS-28-D		SWSS-29-D	
				6/18/2004 0 to 12 in		6/21/2004 0 to 12 in		6/21/2004 0 to 2 in		6/21/2004 0 to 12 in		6/21/2004 0 to 12 in		6/22/2004 0 to 12 in	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	1	J	10	U
100-42-5	Styrene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	11	UJ	10	U	10	U	10	U	10	U	10	U

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		Sample Code	SWSS-30-S	SWSS-31-D	SWSS-32-D	SWSS-33-D	SWSS-34-S	SWSS-35-D
		Sample Name						
		Sample Date	6/22/2004	6/22/2004	6/22/2004	6/24/2004	6/24/2004	6/24/2004
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 2 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 in
(Group Code)	(Group Description)							
1-VOA-s	Volatile Organic Compounds							
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 U	12 U	10 U
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 U	12 U	10 U
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
67-64-1	Acetone	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 UJ	10 UJ
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	2 J
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 U	12 U	10 U
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 UJ
67-66-3	Chloroform	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
71-43-2	Benzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 U	12 U	10 UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 U	12 U	10 UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-30-S	SWSS-31-D	SWSS-32-D	SWSS-33-D	SWSS-34-S	SWSS-35-D
				6/22/2004 0 to 2 in	6/22/2004 0 to 12 in	6/22/2004 0 to 12 in	6/24/2004 0 to 12 in	6/24/2004 0 to 2 in	6/24/2004 0 to 12 in
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
100-42-5	Styrene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	2 J	10 U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U	12 U	10 UJ	10 UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-35-D-Dup SWSS-58-D 6/24/2004 0 to 12 in	SWSS-36-D 6/24/2004 0 to 12 in	SWSS-37-D 6/24/2004 0 to 12 in
(Group Code)	(Group Description)					
1-VOA-s	Volatile Organic Compounds					
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	10 U	10 U	10 U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
67-64-1	Acetone	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 UJ
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	10 U	10 U	10 U
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	10 U	2 J	2 J
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 UJ
67-66-3	Chloroform	TCL-VOA-S	ug/kg	10 U	10 U	10 U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	10 U	10 U	10 U
71-43-2	Benzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	10 U	10 U	10 U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	10 UJ	10 UJ	10 UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	10 U	10 U	10 U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	10 U	10 U	10 U

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Site-Wide Surface Soils
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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-35-D-Dup SWSS-58-D 6/24/2004 0 to 12 in		SWSS-36-D 6/24/2004 0 to 12 in		SWSS-37-D 6/24/2004 0 to 12 in	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	10	U	10	U	10	U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	10	U	4	J	3	J
100-42-5	Styrene	TCL-VOA-S	ug/kg	10	U	10	U	10	U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	10	U	10	U	10	U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	10	U	2	J	2	J
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	10	U	10	U	10	U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	10	U	10	U	10	U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	10	U	10	U	10	U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	10	U	10	U	10	U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	10	UJ
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	10	U	10	U	10	U

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Site-Wide Surface Soils
Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-01-D		SWSS-02-D		SWSS-03-D		SWSS-04-D		SWSS-05-D	
				6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/14/2004 0 to 12 in		6/14/2004 0 to 12 in	
(Group Code)	(Group Description)												
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1												
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
108-95-2	Phenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	390 UJ		370 UJ		360 UJ		3900 UJ		3800 UJ	
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	390 U		370 UJ		360 U		3900 UJ		3800 U	
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
78-59-1	Isophorone	TCL-BNA-S	ug/kg	390 UJ		370 U		360 UJ		3900 U		3800 UJ	
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	390 UJ		370 UJ		360 UJ		3900 UJ		3800 UJ	
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	390 UJ		370 U		360 UJ		3900 U		3800 UJ	
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	44 J		370 U		360 U		3900 U		3800 U	
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	60 J		220 J		45 J		3900 U		3800 U	
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	390 UJ		370 UJ		360 UJ		3900 UJ		3800 UJ	
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	980 U		920 U		900 U		9900 U		9700 U	
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	980 UJ		920 UJ		900 UJ		9900 UJ		9700 UJ	
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	390 U		370 U		360 U		2200 J		680 J	
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	390 U		370 U		360 U		3900 U		3800 U	
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	70 J		370 U		44 J		3900 U		3800 U	
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	980 U		920 U		900 U		9900 U		9700 U	
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	67 J		370 U		36 J		3900 U		3800 U	

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-06-D		SWSS-07-D		SWSS-08-S		SWSS-09-D		SWSS-10-D	
				6/15/2004 0 to 12 in		6/15/2004 0 to 12 in		6/15/2004 0 to 2 in		6/15/2004 0 to 12 in		6/15/2004 0 to 12 in	
(Group Code)	(Group Description)												
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1												
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
108-95-2	Phenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	1900	UJ	1900	UJ	1800	UJ	1900	UJ	1800	UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	200	J	1900	U	1300	J	1900	UJ	1800	U
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	1900	UJ	1900	UJ	1800	UJ	1900	UJ	1800	UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
78-59-1	Isophorone	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	1900	UJ	1900	UJ	1800	UJ	1900	UJ	1800	UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	190	J	450	J
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	380	J	1900	U	1800	U	1900	UJ	1800	U
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	1900	UJ	1900	UJ	1800	UJ	1900	UJ	1800	UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	4700	U	4800	U	4500	U	4700	UJ	4500	U
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	4700	UJ	4800	UJ	4500	UJ	4700	UJ	4500	UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	280	J	1900	U	720	J	1900	UJ	1800	U
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	1900	U	1900	U	1800	U	1900	UJ	1800	U
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	4700	U	4800	U	4500	U	4700	UJ	4500	U
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	3500		260	J	1800	U	1900	UJ	530	J

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-11-D 6/15/2004 0 to 12 in	SWSS-12-D 6/16/2004 0 to 12 in	SWSS-13-D 6/16/2004 0 to 12 in	SWSS-13-D-DUP SWSS-55-D 6/16/2004 0 to 12 in	SWSS-14-S 6/16/2004 0 to 2 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	1900 UJ	2100 UJ	1900 U	3700 UJ	1800 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	1900 UJ	2100 UJ	1900 U	3700 UJ	1800 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 UJ	3700 UJ	1800 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	1900 UJ	2100 UJ	1900 U	3700 UJ	1800 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 UJ	3700 UJ	1800 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	1900 UJ	2100 UJ	1900 UJ	3700 UJ	1800 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	4800 U	5400 U	4800 U	9300 UJ	4500 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	4800 UJ	5400 UJ	4800 UJ	9300 UJ	4500 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	1900 U	490 J	1900 U	3700 UJ	1800 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	4800 U	5400 U	4800 U	9300 UJ	4500 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	210 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-15-S 6/16/2004 0 to 2 in	SWSS-16-D 6/16/2004 0 to 12 in	SWSS-17-S 6/17/2004 0 to 2 in	SWSS-18-D 6/17/2004 0 to 12 in	SWSS-19-D 6/17/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	420 J	2000 J	1900 J	190 J	1900 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	3500 UJ	490 J	2600 J	1800 UJ	1900 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	17000 J	4400 J	3700 UJ	1800 UJ	1900 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	480 J	4300 J	3700 UJ	190 J	720 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-20-S		SWSS-21-D		SWSS-22-D		SWSS-23-D		SWSS-24-D	
				6/17/2004 0 to 2 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in	
(Group Code)	(Group Description)												
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1												
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	2000	UJ	2600	J	580	J	930	J	1000	J
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ

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Site-Wide Surface Soils
Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-25-D 6/21/2004 0 to 12 in	SWSS-26-S 6/21/2004 0 to 2 in	SWSS-27-D 6/21/2004 0 to 12 in	SWSS-28-D 6/21/2004 0 to 12 in	SWSS-29-D 6/22/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
108-95-2	Phenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	370 U	490 J	770 U	610 J	91 J
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
78-59-1	Isophorone	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	370 U	1800 U	500 J	760 U	430 U
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	370 U	1800 U	250 J	760 U	430 U
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 U
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 U
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	400	1800 U	450 J	380 J	430 U
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	110 J
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 U
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	76 J	1800 U	450 J	180 J	100 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-30-S 6/22/2004 0 to 2 in	SWSS-31-D 6/22/2004 0 to 12 in	SWSS-32-D 6/22/2004 0 to 12 in	SWSS-33-D 6/24/2004 0 to 12 in	SWSS-34-S 6/24/2004 0 to 2 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
108-95-2	Phenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	75 J	750 U	380 J	390 U	370 U
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
78-59-1	Isophorone	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	120 J	750 U	2100	340 J	150 J
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	370 UJ	750 UJ	380 UJ	390 U	370 U
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	920 U	1900 U	970 U	980 U	920 U
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	920 U	1900 U	970 U	980 U	920 U
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	370 U	750 U	120 J	230 J	190 J
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	370 U	750 U	450	95 J	370 U
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	81 J	170 J	84 J	110 J	130 J
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	920 U	1900 U	970 U	980 U	920 U
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	300 J	750 U	190 J	210 J	200 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-35-D 6/24/2004 0 to 12 in	SWSS-35-D-Dup SWSS-58-D 6/24/2004 0 to 12 in	SWSS-36-D 6/24/2004 0 to 12 in	SWSS-37-D 6/24/2004 0 to 12 in
(Group Code)	(Group Description)						
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1						
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
108-95-2	Phenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
78-59-1	Isophorone	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	1200	430 J	1100 U	1100 U
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	670 J	1100 U	1100 U	1100 U
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	1100 UJ	1100 UJ	340 J	1100 U
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 UJ	1100 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	3100	1800	1100 U	880 J
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	1100 U	1100 U	590 J	230 J
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	1100	500 J	1100	230 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-01-D 6/14/2004 0 to 12 in	SWSS-02-D 6/14/2004 0 to 12 in	SWSS-03-D 6/14/2004 0 to 12 in	SWSS-04-D 6/14/2004 0 to 12 in	SWSS-05-D 6/14/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	980 U	920 U	900 U	9900 U	9700 U
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	980 UJ	920 UJ	900 UJ	9900 UJ	9700 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	59 J	370 U	46 J	3900 U	3800 U
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	980 U	920 U	900 U	9900 U	9700 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	980 U	920 U	900 U	9900 U	9700 U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	980 U	920 U	900 U	9900 U	9700 U
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	610	370 U	330 J	3900 U	2800 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	180 J	370 U	110 J	3900 U	1100 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	110 J	370 U	52 J	3900 U	540 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	110 J	370 U	76 J	3900 U	490 J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	1200	4000	560	820 J	5700
129-00-0	Pyrene	TCL-BNA-S	ug/kg	1100	3900	460	1500 J	4900
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	440	370 U	240 J	2100 J	3100 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	600	1300	260 J	660 J	2800 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	920	1400	380	880 J	4300
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	450 U	220 J	1000	2000 J	8900 U
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	390 U	370 U	360 U	3900 U	3800 U
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	580 J	1400	230 J	1500 J	3000 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	700	970	150 J	1100 J	3700 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	610	1100	240 J	1000 J	3600 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	440	690	180 J	1400 J	3300 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	120 J	200 J	51 J	3900 U	810 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	530	590	290 J	830 J	2600 J

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Semi-Volatile Organic Compounds - Page 2

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-06-D 6/15/2004 0 to 12 in	SWSS-07-D 6/15/2004 0 to 12 in	SWSS-08-S 6/15/2004 0 to 2 in	SWSS-09-D 6/15/2004 0 to 12 in	SWSS-10-D 6/15/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	4700 U	4800 U	4500 U	4700 UJ	4500 U
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	4700 UJ	4800 UJ	4500 UJ	4700 UJ	4500 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	1600 J	1900 U	1800 U	1900 UJ	300 J
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	3500	300 J	1800 U	1900 UJ	450 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	4700 U	4800 U	4500 U	4700 UJ	4500 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	4700 U	4800 U	4500 U	4700 UJ	4500 U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	4700 U	4800 U	4500 U	4700 UJ	4500 U
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	35000	1800 J	640 J	440 J	5200
120-12-7	Anthracene	TCL-BNA-S	ug/kg	10000	1000 J	1800 U	200 J	2000
86-74-8	Carbazole	TCL-BNA-S	ug/kg	2200	290 J	1800 U	1900 UJ	760 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	1900 U	250 J	280 J	1900 UJ	1800 U
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	52000	3400	1100 J	1100 J	8200
129-00-0	Pyrene	TCL-BNA-S	ug/kg	39000	3700	1300 J	1100 J	5900
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	660 J	1300 J	19000	660 J	890 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	1900 UJ	1800 U
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	19000	1800 J	650 J	590 J	3600
218-01-9	Chrysene	TCL-BNA-S	ug/kg	15000	2300	820 J	830 J	4100
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	610 J	3700	3600	5700 J	1700 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	1900 U	1900 U	1800 U	2100 J	1800 U
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	11000	1600 J	770 J	990 J	2800
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	10000	1300 J	830 J	940 J	2000
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	17000	1600 J	770 J	1100 J	3300
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	8000	1400 J	850 J	1200 J	2200
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	3000	340 J	250 J	280 J	700 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	4800	1400 J	790 J	210 J	1500 J

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Site-Wide Surface Soils
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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-11-D 6/15/2004 0 to 12 in	SWSS-12-D 6/16/2004 0 to 12 in	SWSS-13-D 6/16/2004 0 to 12 in	SWSS-13-D-DUP SWSS-55-D 6/16/2004 0 to 12 in	SWSS-14-S 6/16/2004 0 to 2 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	4800 U	5400 U	4800 U	9300 UJ	4500 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	4800 UJ	5400 UJ	4800 UJ	9300 UJ	4500 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	750 J
86-73-7	Fluorene	TCL-BNA-S	ug/kg	1900 U	190 J	1900 U	3700 UJ	190 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	4800 U	5400 U	4800 U	9300 UJ	4500 UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	4800 U	5400 U	4800 U	9300 UJ	4500 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	4800 U	5400 U	4800 U	9300 UJ	4500 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	950 J	1600 J	1900 U	550 J	3400 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	450 J	620 J	1900 U	3700 UJ	820 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	210 J	300 J	1900 U	3700 UJ	270 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	480 J	370 J	1900 U	3700 UJ	1800 UJ
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	1600 J	3400	220 J	850 J	6400 J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	1700 J	3800	220 J	730 J	5900 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	4600	43000	1900 U	1900 J	2100 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	1900 U	2100 U	1900 U	3700 UJ	1800 UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	930 J	2000 J	1900 U	510 J	2800 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	1200 J	2300	1900 U	690 J	2800 J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	15000	15000	3500	7700 J	2000 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	1200 J	2100 U	1900 U	3700 UJ	1800 UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	1000 J	1900 J	300 J	1100 J	3000 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	1200 J	1800 J	250 J	720 J	2600 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	1200 J	2200	550 J	1300 J	3000 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	1100 J	2100	490 J	1200 J	2000 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	260 J	500 J	1900 U	3700 UJ	510 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	960 J	1400 J	390 J	3700 UJ	2200 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-15-S 6/16/2004 0 to 2 in	SWSS-16-D 6/16/2004 0 to 12 in	SWSS-17-S 6/17/2004 0 to 2 in	SWSS-18-D 6/17/2004 0 to 12 in	SWSS-19-D 6/17/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	3500 UJ	2400 J	3700 UJ	1800 UJ	350 J
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	410 J	4400 J	3700 UJ	210 J	780 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	8700 UJ	8700 UJ	9300 UJ	4500 UJ	4700 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	4000 J	38000 J	2500 J	3100 J	7900 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	1500 J	9900 J	760 J	750 J	2000 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	740 J	5600 J	3700 UJ	220 J	1100 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	7000 J	45000 J	3500 J	4200 J	9300 J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	8000 J	50000 J	3400 J	4700 J	7100 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	3700 J	590 J	1500 J	1800 UJ	840 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	4200 J	25000 J	1900 J	2500 J	4300 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	4900 J	23000 J	2100 J	2800 J	4200 J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	5900 J	1700 J	15000 J	370 J	650 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	3800 J	22000 J	2900 J	2400 J	3700 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	3600 J	17000 J	1900 J	2300 J	4000 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	4300 J	19000 J	2200 J	2200 J	2900 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	3700 J	10000 J	1800 J	1300 J	1500 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	740 J	3100 J	660 J	370 J	550 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	3500 UJ	3500 UJ	3700 UJ	1800 UJ	1900 UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-20-S		SWSS-21-D		SWSS-22-D		SWSS-23-D		SWSS-24-D	
				6/17/2004 0 to 2 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in	
(Group Code)	(Group Description)												
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2												
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	4900	UJ	4700	UJ	5500	UJ	9800	UJ	10000	UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	680	J	2100	J	1300	J	1500	J	3800	J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	2000	UJ	800	J	350	J	3900	UJ	1700	J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	460	J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	2000	UJ	370	J	410	J	3900	UJ	4100	UJ
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	950	J	4200	J	2100	J	3100	J	11000	J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	1100	J	4300	J	2900	J	3700	J	13000	J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	1800	J	1000	J	2400	J	2300	J	2800	J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	2000	UJ	1900	UJ	2200	UJ	3900	UJ	4100	UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	610	J	2500	J	1900	J	2000	J	8300	J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	690	J	2200	J	2000	J	2000	J	6800	J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	5600	J	3500	J	8000	J	6800	J	2200	J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	2000	UJ	860	J	2200	UJ	3900	UJ	4100	UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	560	J	1800	J	1600	J	2400	J	5200	J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	440	J	1900	J	1800	J	1900	J	4200	J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	480	J	1900	J	1600	J	2000	J	3900	J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	520	J	1400	J	1700	J	2000	J	2800	J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	2000	UJ	400	J	2200	UJ	510	J	930	J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	2000	UJ	380	J	420	J	470	J	580	J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-25-D 6/21/2004 0 to 12 in	SWSS-26-S 6/21/2004 0 to 2 in	SWSS-27-D 6/21/2004 0 to 12 in	SWSS-28-D 6/21/2004 0 to 12 in	SWSS-29-D 6/22/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	930 U	4600 UJ	1900 UJ	1900 UJ	1100 R
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	370 U	1800 U	230 J	760 U	430 U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	76 J	1800 U	390 J	170 J	130 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	370 U	1800 UJ	770 UJ	760 UJ	430 U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	930 U	4600 U	1900 U	1900 U	1100 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	890	1800	3200	1600	1200
120-12-7	Anthracene	TCL-BNA-S	ug/kg	220 J	570 J	950	520 J	320 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	97 J	1800 U	480 J	230 J	210 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	190 J	790 J	300 J	250 J	150 J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	1300	4000	4500	3000	2300
129-00-0	Pyrene	TCL-BNA-S	ug/kg	1400 J	3400	3900	2600	1900
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	1500	7000	2400	3900	710
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	370 U	1800 U	770 U	760 U	430 UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	660	1900	2400	1800	1200
218-01-9	Chrysene	TCL-BNA-S	ug/kg	720	2100	2400	1900	1500
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	1500	13000	4600	4500	690
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	120 J	1800 U	320 J	260 J	430 UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	1300	1800	4300	2700	1400
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	370 U	2100	770 U	1900	1000
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	710	2000	2700	2600	1600
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	330 J	1200 J	1300	1500	1700 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	91 J	420 J	400 J	470 J	620
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	280 J	850 J	890	1200	1100 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-30-S 6/22/2004 0 to 2 in	SWSS-31-D 6/22/2004 0 to 12 in	SWSS-32-D 6/22/2004 0 to 12 in	SWSS-33-D 6/24/2004 0 to 12 in	SWSS-34-S 6/24/2004 0 to 2 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	920 R	1900 R	970 R	980 UJ	920 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	920 UJ	1900 UJ	970 UJ	980 U	920 U
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	180 J	750 U	90 J	120 J	100 J
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	330 J	750 U	200 J	210 J	160 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	370 UJ	750 UJ	380 UJ	390 U	370 U
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	920 U	1900 U	970 U	980 U	920 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	920 UJ	1900 UJ	970 UJ	980 U	920 U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	370 U	750 U	380 U	390 U	370 U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	920 UJ	1900 UJ	970 UJ	980 U	920 U
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	2400	630 J	1500	1900	2200
120-12-7	Anthracene	TCL-BNA-S	ug/kg	680	230 J	420	620	750
86-74-8	Carbazole	TCL-BNA-S	ug/kg	430 J	750 UJ	210 J	290 J	330 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	150 J	210 J	620	780	1100
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	3800	1200	3100 J	3800	5700
129-00-0	Pyrene	TCL-BNA-S	ug/kg	2800	840	2000	2700 J	3900 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	670	1300	3100 J	2800	2800
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	370 UJ	750 UJ	380 UJ	390 U	370 U
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	1600	570 J	1300	1900	2800
218-01-9	Chrysene	TCL-BNA-S	ug/kg	1700	660 J	1500	2100	3800
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	590	2100	37000	4200	2600
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	370 UJ	750 UJ	370 J	290 J	150 J
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	1500	730 J	1800	3200	4300
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	1100	630 J	890	2000	2900
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	1600	830	1600	2300	3800
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	1400 J	890 J	1100 J	2100	2100
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	370	190 J	300 J	550	620
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	800 J	530 J	550 J	1700	1800

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-35-D 6/24/2004 0 to 12 in	SWSS-35-D-Dup SWSS-58-D 6/24/2004 0 to 12 in	SWSS-36-D 6/24/2004 0 to 12 in	SWSS-37-D 6/24/2004 0 to 12 in
(Group Code)	(Group Description)						
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2						
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	2800 UJ	2800 UJ	2700 UJ	2600 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	520 J	260 J	940 J	1100 U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	850 J	450 J	2100	230 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	2800 U	2800 U	2700 U	2600 U
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	7000	5000	14000	2500
120-12-7	Anthracene	TCL-BNA-S	ug/kg	1800	1200	4800	750 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	1000 J	720 J	620 J	320 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	800 J	390 J	430 J	260 J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	12000	8000	13000	4600
129-00-0	Pyrene	TCL-BNA-S	ug/kg	7800 J	6200 J	12000 J	3000 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	3000	2300	630 J	1100
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	1100 U	1100 U	1100 U	1100 U
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	6000	4600	6600	2300
218-01-9	Chrysene	TCL-BNA-S	ug/kg	6900	5200	7500	2700
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	3200	3900	1200	2200
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	340 J	1100 U	1100 U	280 J
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	7200	5900	5600	3100
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	4100	3800	3900	2200
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	7600	5500	5700	3000
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	5100	4000	3300	2400
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	1400	1100	950 J	600 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	4300	3600	2700	2500

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			Sample Code	SWSS-01-D	SWSS-02-D	SWSS-03-D	SWSS-04-D	SWSS-05-D	SWSS-06-D	SWSS-07-D
			Sample Name							
			Sample Date	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/15/2004	6/15/2004
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 in
(Group Code)	(Group Description)									
3-PEST-S	Pesticides/PCBs									
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	2 UJ	2.6 R	1.8 UJ	2 UJ	20 UJ	1.9 UJ	2 UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ	1.8 UJ	2 UJ	20 UJ	1.9 UJ	2 UJ
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ	1.8 UJ	2 UJ	20 UJ	1.9 UJ	2 UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	2 UJ	6.2 J	1.8 UJ	8.4 J	20 UJ	3.8 R	20 J
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ	1.8 UJ	2 UJ	20 UJ	5.4 J	2 UJ
309-00-2	Aldrin	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ	1.8 UJ	2 UJ	20 UJ	19 J	2 UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	5.4 R	6.2 R	1.8 UJ	23 R	170 R	13 R	26 R
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	2 UJ	16 R	1.8 R	12 R	20 UJ	1.9 UJ	13 R
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ	3.6 UJ	3.9 UJ	38 UJ	3.7 UJ	3.8 UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	33 J	37 J	3.6 UJ	130 J	640 J	28 J	170 J
72-20-8	Endrin	TCL-P/P-S	ug/kg	180 J	33 J	15 J	240 J	1200 J	200 J	330 J
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	5.1 R	18 R	3.6 UJ	15 R	91 R	12 R	19 R
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ	3.6 UJ	230 J	38 UJ	3.7 UJ	3.8 UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ	4.4 J	14 R	38 UJ	3.7 UJ	3.8 UJ
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	170 J	43 JN	44 J	300 J	38 UJ	3.7 UJ	3.8 UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	27 UJ	20 R	18 UJ	76 R	200 UJ	41 R	120 JN
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ	11 J	13 R	38 UJ	78 J	15 R
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	3.9 UJ	8.5 J	3.6 UJ	250 J	38 UJ	52 R	3.8 UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ	1.8 UJ	8.5 R	20 UJ	6 R	7 R
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	2 UJ	2.6 R	1.8 UJ	2 UJ	20 UJ	1.9 UJ	2 UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	200 UJ	190 UJ	180 UJ	200 UJ	2000 UJ	190 UJ	200 UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	39 UJ	37 UJ	36 UJ	39 UJ	380 UJ	37 UJ	38 UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	79 UJ	74 UJ	73 UJ	80 UJ	780 UJ	75 UJ	77 UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	39 UJ	37 UJ	36 UJ	39 UJ	380 UJ	37 UJ	38 UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	110 J	37 UJ	36 UJ	39 UJ	380 UJ	37 UJ	38 UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	39 UJ	37 UJ	36 UJ	1200 J	17000 J	710 J	3200 J
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	470 J	360 J	70 J	3000 J	25000 J	1600 J	4200 J
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	1800 J	160 J	36 UJ	1300 J	3800 J	1600 J	1600 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-08-S 6/15/2004 0 to 2 in	SWSS-09-D 6/15/2004 0 to 12 in	SWSS-10-D 6/15/2004 0 to 12 in	SWSS-11-D 6/15/2004 0 to 12 in	SWSS-12-D 6/16/2004 0 to 12 in	SWSS-13-D 6/16/2004 0 to 12 in
(Group Code)	(Group Description)								
3-PEST-S	Pesticides/PCBs								
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	3.7 UJ	1.9 UJ	3.7 UJ	6.8 JN	11 U	9.8 U
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	3.7 UJ	1.9 UJ	14 J	12 R	14 R	9.8 U
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	3.7 UJ	1.9 UJ	3.7 UJ	3.9 UJ	11 U	9.8 U
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	6.2 R	20 J	3.7 UJ	18 R	21 R	9.8 U
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	16 JN	1.9 UJ	8.5 JN	39 JN	38 JN	9.8 U
309-00-2	Aldrin	TCL-P/P-S	ug/kg	3.7 UJ	29 R	3.7 UJ	3.9 UJ	11 U	9.8 U
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	40 R	25 R	370 J	47 R	120 R	70 R
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	18 R	12 R	34 R	16 R	55 R	32 R
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	7.2 UJ	3.7 UJ	7.1 UJ	7.6 UJ	21 U	19 U
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	250 J	84 R	120 J	210 J	710	460
72-20-8	Endrin	TCL-P/P-S	ug/kg	460 J	3.7 UJ	510 J	360 J	1300 J	89 R
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	25 R	3.7 UJ	40 R	19 R	69 R	63 R
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	7.2 UJ	3.7 UJ	7.1 UJ	220 J	21 U	19 U
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	9.4 R	3.7 UJ	40 J	7.6 UJ	21 U	33 JN
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	7.2 UJ	3.7 UJ	7.1 UJ	7.6 UJ	1700	1400
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	49 R	310 JN	170 J	52 JN	150 JN	98 U
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	7.2 UJ	220 J	7.1 UJ	320 J	21 U	19 U
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	7.2 UJ	150 JN	7.1 UJ	7.6 UJ	21 U	19 U
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	3.7 UJ	1.9 UJ	3.7 UJ	59 J	11 U	9.8 U
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	3.7 UJ	1.9 UJ	3.7 UJ	3.9 UJ	11 U	9.8 U
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	370 UJ	190 UJ	370 UJ	390 UJ	1100 U	980 U
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	72 UJ	37 UJ	71 UJ	76 UJ	210 U	190 U
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	150 UJ	76 UJ	140 UJ	150 UJ	440 U	390 U
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	72 UJ	37 UJ	71 UJ	76 UJ	210 U	190 U
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	72 UJ	37 UJ	71 UJ	76 UJ	210 U	190 U
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	4600 J	2600 J	2200 J	4900 J	13000	190 U
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	6000 J	3700 J	6600 J	4900 J	18000	9900
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	1800 J	2000 J	1700 J	6100 J	210 U	2200 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-13-D-DUP SWSS-55-D 6/16/2004 0 to 12 in	SWSS-14-S 6/16/2004 0 to 2 in	SWSS-15-S 6/16/2004 0 to 2 in	SWSS-16-D 6/16/2004 0 to 12 in	SWSS-17-S 6/17/2004 0 to 2 in	SWSS-18-D 6/17/2004 0 to 12 in
(Group Code)	(Group Description)								
3-PEST-S	Pesticides/PCBs								
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	24 J	1.8 UJ	3.6 UJ	4.3 J	2.5 R	1.8 U
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	27 J	1.8 UJ	5.9 JN	19 J	23 JN	4.8 J
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	1.9 UJ	1.8 UJ	3.6 UJ	1.8 UJ	1.9 UJ	6.3
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	12 JN	9.9 J	3.6 UJ	1.8 UJ	16 R	1.8 U
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	23 J	13 J	11 J	15 J	1.9 UJ	4.2 JN
309-00-2	Aldrin	TCL-P/P-S	ug/kg	1.9 UJ	8.2 R	3.6 UJ	8.5 R	17 R	1.8 U
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	110 R	25 R	35 R	100 R	160 R	5.4 R
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	1.9 UJ	20 JN	16 R	1.8 UJ	15 R	2 R
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	3.7 UJ	3.5 UJ	6.9 UJ	3.5 UJ	3.7 UJ	3.6 U
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	120 J	83 J	210 J	95 J	170	21
72-20-8	Endrin	TCL-P/P-S	ug/kg	3.7 UJ	41 JN	400 J	380 J	51 R	38 JN
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	23 R	19 R	22 R	19 R	29 R	3.6 U
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	130 J	3.5 UJ	6.9 UJ	3.5 UJ	3.7 UJ	3.6 U
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	65 J	3.5 UJ	16 JN	3.5 UJ	3.7 UJ	9.2 JN
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	320 J	410 J	6.9 UJ	3.5 UJ	400	3.6 UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	19 UJ	18 UJ	67 J	18 UJ	19 UJ	18 UJ
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	3.7 UJ	3.5 UJ	6.9 UJ	3.5 UJ	3.7 UJ	3.6 U
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	100 JN	78 JN	6.9 UJ	90 J	3.7 UJ	3.6 U
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	17 JN	1.8 UJ	9.1 R	27 J	1.9 UJ	1.8 U
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	1.9 UJ	1.8 UJ	3.6 UJ	1.8 UJ	1.9 UJ	1.8 U
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	190 UJ	180 UJ	360 UJ	180 UJ	190 UJ	180 U
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	37 UJ	35 UJ	69 UJ	35 UJ	37 UJ	36 U
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	75 UJ	72 UJ	140 UJ	71 UJ	75 UJ	73 U
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	37 UJ	35 UJ	69 UJ	35 UJ	37 UJ	36 U
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	37 UJ	35 UJ	69 UJ	35 UJ	37 UJ	36 U
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	1800 J	1600 J	2400 J	1700 J	2900	310 J
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	3000 J	3400 J	5000 J	2400 J	4100	510
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	1800 J	1200 J	1700 J	1900 J	1300 J	36 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-19-D		SWSS-20-S		SWSS-21-D		SWSS-22-D		SWSS-23-D		SWSS-24-D		SWSS-25-D	
				6/17/2004 0 to 12 in		6/17/2004 0 to 2 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/18/2004 0 to 12 in		6/21/2004 0 to 12 in	
(Group Code)	(Group Description)																
3-PEST-S	Pesticides/PCBs																
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	3 J		3.8 R		1.9 U		2.2 U		4 U		2.1 U		1.9 U	
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	16 R		8.5 R		12		2.2 U		4 U		7.4 R		8.7 R	
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	1.9 UJ		2 U		1.9 U		2.2 U		4 U		2.1 U		1.9 U	
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	1.9 UJ		4.1 R		1.9 U		5.5 R		4 U		2.2 R		1.9 U	
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	15 J		2 U		4.8 JN		17 J		11 JN		15 J		1.9 U	
309-00-2	Aldrin	TCL-P/P-S	ug/kg	11 R		2 U		1.9 U		2.2 U		4 U		2.1 U		6.1 R	
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	110 R		16 R		9.4 R		32 R		4 U		26 R		1.9 U	
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	15 R		7.6 R		4.1 R		15 R		16 R		11 R		1.9 U	
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	3.7 UJ		3.9 U		3.7 U		4.3 U		7.8 U		4.1 U		3.7 U	
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	70 JN		82		47 J		150		230		140		3.7 U	
72-20-8	Endrin	TCL-P/P-S	ug/kg	36 R		17 JN		9 JN		28 R		360		210 J		3.7 U	
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	19 R		7.2 R		4.5 R		19 R		25 R		20 R		3.7 U	
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	3.7 UJ		22 R		8.3 R		4.3 U		7.8 U		4.1 U		3.7 U	
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	27 JN		3.9 U		3.7 U		4.3 U		7.8 U		4.1 U		3.7 U	
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	350		200		120 J		500		7.8 U		470		3.7 U	
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	19 UJ		20 U		31 JN		64 J		62 J		95 J		19 U	
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	3.7 UJ		28 R		24 JN		33 R		7.8 U		4.1 U		3.7 U	
7421-93-4	Endrin aldehyde	TCL-P/P-S*	ug/kg	3.7 UJ		3.9 U		3.7 U		4.3 U		7.8 U		4.1 U		3.7 U	
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	17 JN		4.4 JN		2 JN		2.2 U		4.3 R		5.1 JN		1.9 U	
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	1.9 UJ		42 JN		22 JN		75 JN		4 U		2.1 U		1.9 U	
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	190 UJ		200 U		190 U		220 U		400 U		210 U		190 U	
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	37 UJ		39 U		37 U		43 U		78 U		41 U		37 U	
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	76 UJ		80 U		75 U		88 U		160 U		83 U		75 U	
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	37 UJ		39 U		37 U		43 U		78 U		41 U		37 U	
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	37 UJ		39 U		37 U		43 U		78 U		41 U		37 U	
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	2100		1900		1100		2800		3100		2600		37 U	
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	3000		2100		1200 J		4300		5400		4000		5100	
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	960 J		830 J		600		1600 J		1100 JN		1500 J		37 U	

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-26-S	SWSS-27-D	SWSS-28-D	SWSS-29-D	SWSS-30-S	SWSS-31-D	SWSS-32-D
				6/21/2004 0 to 2 in	6/21/2004 0 to 12 in	6/21/2004 0 to 12 in	6/22/2004 0 to 12 in	6/22/2004 0 to 2 in	6/22/2004 0 to 12 in	6/22/2004 0 to 12 in
(Group Code)	(Group Description)									
3-PEST-S	Pesticides/PCBs									
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	8.1 J	1.9 U	1.9 U	4 U
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	4.4 R	36 J	24	24 J	11 R	4.6 JN	21 R
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	2.2 U	1.9 U	1.9 U	4 U
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	2.2 U	1.9 U	1.9 U	4 U
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	7.7	1.9 U	1.9 U	5.4 J
309-00-2	Aldrin	TCL-P/P-S	ug/kg	3.3 JN	4.2 R	2 U	2.2 U	1.9 U	7	4 U
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	2.2 U	1.9 U	1.9 U	4 U
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	2.2 U	1.9 U	1.9 U	4 U
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
72-20-8	Endrin	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	19 U	20 U	20 U	22 U	19 U	19 U	40 U
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	3.6 U	3.8 U	3.8 U	4.3 U	3.7 U	3.8 U	7.7 U
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	2.2 U	1.9 U	1.9 U	4 U
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	1.9 U	2 U	2 U	2.2 U	1.9 U	1.9 U	4 U
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	190 U	200 U	200 U	220 U	190 U	190 U	400 U
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	36 U	38 U	38 U	43 U	37 U	38 U	77 U
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	74 U	78 U	77 U	88 U	74 U	76 U	160 U
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	36 U	38 U	38 U	43 U	37 U	38 U	77 U
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	36 U	38 U	38 U	43 U	37 U	38 U	77 U
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	36 U	2800	3000	550 J	750 J	38 U	77 U
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	1300	3300	3800	540 J	1000	1500	3100
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	880	1600	1300 J	280 J	430 J	440	77 U

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				6/24/2004 0 to 12 in		6/24/2004 0 to 2 in		6/24/2004 0 to 12 in		6/24/2004 0 to 12 in		6/24/2004 0 to 12 in		6/24/2004 0 to 12 in	
(Group Code)	(Group Description)														
3-PEST-S	Pesticides/PCBs														
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	13 J		21 J		49 R		110 JN		4.8 R		9 R	
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
309-00-2	Aldrin	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
72-20-8	Endrin	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	20 U		38 U		39 U		38 U		37 U		36 U	
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	3.9 U		7.3 U		7.5 U		7.3 U		7.1 U		7 U	
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	2 U		3.8 U		3.9 U		3.8 U		3.7 U		3.6 U	
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	200 U		380 U		390 U		380 U		370 U		360 U	
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	290		73 U		1200		1500		140		180 J	
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	79 U		150 U		150 U		150 U		140 U		140 U	
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	39 U		73 U		75 U		73 U		71 U		70 U	
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	39 U		73 U		75 U		73 U		71 U		70 U	
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	39 U		1500 J		75 U		73 U		71 U		70 U	
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	2500		4500		6900		9400		4300		4600 J	
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	690		1100		75 U		2100 J		630		1300	

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			Sample Code Sample Name Sample Date Unit \ Depth	SWSS-01-D 6/14/2004 0 to 12 in	SWSS-02-D 6/14/2004 0 to 12 in	SWSS-03-D 6/14/2004 0 to 12 in	SWSS-04-D 6/14/2004 0 to 12 in	SWSS-05-D 6/14/2004 0 to 12 in	SWSS-06-D 6/15/2004 0 to 12 in	SWSS-07-D 6/15/2004 0 to 12 in
Cas Rn	Chemical Name	Analytic Method								
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		16000	14400	21100	32200	46400	19900	35000
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		3.4 J	3.5 J	7 J	8.7 R	15.8 R	20.1 R	10.5 R
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		15.1 R	10.5 R	10.9 R	13.2 R	20.6 R	24.7 R	11.4 R
7440-39-3	Barium	TAL-METS-CN-S mg/kg		170	151	149	336	489	187	214
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.66	0.61	0.68	0.68	0.66	0.65	0.61
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		10.6	4.5	31.7	17.8	32.3	16	12.8
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		14700	29000	8930	38200	25700	14200	56200
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		48.1	31.4	51.2	137	187	96.6	89.2
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		15.8	11.2	13.4	15.7	26.4	20.2	14.1
7440-50-8	Copper	TAL-METS-CN-S mg/kg		418 R	261 R	795 R	1770 R	6870 R	673 R	1770 R
7439-89-6	Iron	TAL-METS-CN-S mg/kg		73500	31500	45000	66700	110001	70100	61600
7439-92-1	Lead	TAL-METS-CN-S mg/kg		815 R	401 R	1340 R	1700 R	3670 R	1420 R	1490 R
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		7440	10200	6750	16000	9950	5880	24200
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		757	592	720	870	1140	966	849
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		2.4	1.5	2	2.6	4.3	3.2	2.7
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		66.1	40.2	61.8	145	270	107	111
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		2080	2300	2050	2250	1870	2080	1970
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		5.1	4.4	2.3 J	4.8	7.9	3.6 J	3.9 J
7440-22-4	Silver	TAL-METS-CN-S mg/kg		0.56 J	0.5 J	0.99 J	2.5 J	6.8 J	0.85 J	1.7 J
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		584 U	582 U	583 U	577 U	585 U	550 U	588 U
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		2.6 J	1.9 J	2.4 J	3.1	4.7	3.5	2.6 J
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		65.8	33.5	66	142	271	49.4	66.6
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		3020	493	990	2650	7250	1800	2290
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.39 J	0.23 J	0.25 J	0.21 J	0.77 J	0.43 J	0.27 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code	SWSS-08-S	SWSS-09-D	SWSS-10-D	SWSS-11-D	SWSS-12-D	SWSS-13-D	SWSS-13-D-DUP
			Sample Name Sample Date Unit \ Depth	6/15/2004 0 to 2 in	6/15/2004 0 to 12 in	6/15/2004 0 to 12 in	6/15/2004 0 to 12 in	6/16/2004 0 to 12 in	6/16/2004 0 to 12 in	SWSS-55-D 6/16/2004 0 to 12 in
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		37500	22500	23600	15300	46800	17600	18000
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		23 R	6.9 R	6.5 UR	1.7 R	11.2 R	1.4 R	6.8 UR
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		12.6 R	19.6	8.8	39.8	16.8	24.1	22
7440-39-3	Barium	TAL-METS-CN-S mg/kg		251	1550 R	287 R	581 R	401 R	306 R	283 R
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.51	0.88	0.68	0.47 J	0.55 J	0.55 J	0.64
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		14.3	18.6	7	16	21	16.3	11.1
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		74800	43300	23700	15700	23200	28700	22700
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		110	72.6	60.7	99	147	99.1	50.7
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		14.1	15.6	13.5	18.8	19.1	14.3	14.6
7440-50-8	Copper	TAL-METS-CN-S mg/kg		13500 R	869	3040	765	2290	539	513
7439-89-6	Iron	TAL-METS-CN-S mg/kg		65600	57700	49200	111999	86200	61700	61100
7439-92-1	Lead	TAL-METS-CN-S mg/kg		7420 R	4050 J	923 J	2900 J	2520 J	1300 J	1560 J
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		23700	15600	8170	7680	10700	11900	11100
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		775	702	804	961	1170	1120	1080
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		2.6	2.3	1.6	9.9	3.9	1.2	2.1
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		175	118	112	287	212	304 J	109 J
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		1860	3130 J	2670 J	2250 J	2150 J	2620 J	2770 J
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		4.6	5	4.7	11.2	7.5	5.7	4.8
7440-22-4	Silver	TAL-METS-CN-S mg/kg		3.6 J	1.3	0.9 J	4	3.3	0.58 J	0.67 J
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		565 U	1790 J	171 J	359 J	49.8 J	575 UJ	68.9 J
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		2.3 J	2.4 J	2.4 J	3.7	3.8	3.4	3.2
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		66.6	77.2	112	48.4	114	131	115
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		5500	4360 J	1720 J	7880 J	4990 J	2350 J	2090 J
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.27 J	0.36 J	0.18 J	0.75 J	0.38 J	0.4 J	0.24 J

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			Sample Code	SWSS-14-S	SWSS-15-S	SWSS-16-D	SWSS-17-S	SWSS-18-D	SWSS-19-D	SWSS-20-S
			Sample Name							
			Sample Date	6/16/2004	6/16/2004	6/16/2004	6/17/2004	6/17/2004	6/17/2004	6/17/2004
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 2 in	0 to 2 in	0 to 12 in	0 to 2 in	0 to 12 in	0 to 12 in	0 to 2 in
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		26800	28500	25400	91400	21000 J	21700 J	31500 J
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		6.5 UR	6.3 UR	6.3 UR	5.3 R	1.8 J	5.6 J	10.5 J
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		16.5	10.8	14.6	9.1	5.1	13	11.6
7440-39-3	Barium	TAL-METS-CN-S mg/kg		248 R	241 R	248 R	234 R	171	210	265
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.67	0.59	0.87	0.64	0.81 J	0.76 J	0.61 J
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		12.7	9.8	10.9	11.7	2	7.9	17.7
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		18000	25300	19300	26100	41000	20200	20300
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		72.7	94.7	80.2	126	30.9 J	106 J	96.6 J
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		16.4	14.7	20.1	14.6	11.8	22.4	15.4
7440-50-8	Copper	TAL-METS-CN-S mg/kg		1040	1230	833	6850	291 J	667 J	2150 J
7439-89-6	Iron	TAL-METS-CN-S mg/kg		73300	66600	86300	74200	31100	108999	68400
7439-92-1	Lead	TAL-METS-CN-S mg/kg		1310 J	1560 J	976 J	6790 J	445	1160	2320
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		8350	11400	10000	12700	12100 J	12100 J	8390 J
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		1170	855	934	969	696	1180	768
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		1.7	1.7	1.3	1.8	1.1 J	1.6 J	1.4 J
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		119	152	105	209	37.4	122	112
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		2810 J	2190 J	2700 J	2230 J	3140	2570	2200
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		5.8	6.2	7.7	6.7	2.1 J	9.2	5.8
7440-22-4	Silver	TAL-METS-CN-S mg/kg		1.1	1.9	1 J	12.2	0.43 J	1.3 J	54.8 J
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		539 UJ	201 J	28.4 J	564 UJ	52.9 R	573 U	553 U
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		3.6	2.7	3.3	2.5 J	2.2 J	3.7	2.5 J
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		107	116	86.4	87.7	38.5	97.5	51.6
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		2130 J	2420 J	1640 J	4940 J	466 J	1300 J	2060 J
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.39 J	0.34 J	0.27 J	0.13 J	2.7 U	0.39 J	2.5 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code	SWSS-21-D	SWSS-22-D	SWSS-23-D	SWSS-24-D	SWSS-25-D	SWSS-26-S	SWSS-27-D
			Sample Name Sample Date Unit \ Depth	6/18/2004 0 to 12 in	6/18/2004 0 to 12 in	6/18/2004 0 to 12 in	6/18/2004 0 to 12 in	6/21/2004 0 to 12 in	6/21/2004 0 to 2 in	6/21/2004 0 to 12 in
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S	mg/kg	55700 J	64300 J	43100 J	28600 J	18000	23000	32000
7440-36-0	Antimony	TAL-METS-CN-S	mg/kg	7.1 J	8.5 J	9.8 J	10.4 J	6.7 U	15	34
7440-38-2	Arsenic	TAL-METS-CN-S	mg/kg	7	9.4	11.6	14.2	7	13	13
7440-39-3	Barium	TAL-METS-CN-S	mg/kg	194	482	346	232	150	240	240
7440-41-7	Beryllium	TAL-METS-CN-S	mg/kg	0.71 J	1.7 J	0.66 J	0.6 J	0.59	0.55 U	0.58 U
7440-43-9	Cadmium	TAL-METS-CN-S	mg/kg	9.5	13.6	19.2	17.2	6.1	12	13
7440-70-2	Calcium	TAL-METS-CN-S	mg/kg	20700	57600	19800	41300	9500	16000	20000
7440-47-3	Chromium	TAL-METS-CN-S	mg/kg	121 J	124 J	113 J	106 J	40	83	89
7440-48-4	Cobalt	TAL-METS-CN-S	mg/kg	13.6	14.2	16.8	17.6	15	18	22
7440-50-8	Copper	TAL-METS-CN-S	mg/kg	4740 J	3110 J	2850 J	1490 J	620	1300	3100
7439-89-6	Iron	TAL-METS-CN-S	mg/kg	53800	75100	78300	111000	52000	110000	110000
7439-92-1	Lead	TAL-METS-CN-S	mg/kg	1280	2160	5490	15900	770	3700	5400
7439-95-4	Magnesium	TAL-METS-CN-S	mg/kg	9340 J	18500 J	9970 J	24300 J	6400	6900	7900
7439-96-5	Manganese	TAL-METS-CN-S	mg/kg	737	1610	911	961	790	920	1100
7439-97-6	Mercury	TAL-METS-CN-S	mg/kg	1.8 J	2.5 J	3.1 J	2.1 J	0.8	1.3	2.4
7440-02-0	Nickel	TAL-METS-CN-S	mg/kg	133	160	194	162	72	170	4600
7440-09-7	Potassium	TAL-METS-CN-S	mg/kg	2400	3340	2540	2330	560 U	550 U	580 U
7782-49-2	Selenium	TAL-METS-CN-S	mg/kg	4.3	6.4	7.2	10.1	4.2	6.5	7.9
7440-22-4	Silver	TAL-METS-CN-S	mg/kg	3.9 J	4.1 J	5.8 J	2.4 J	1.1 U	2.1	3.4
7440-23-5	Sodium	TAL-METS-CN-S	mg/kg	570 U	658 U	591 U	617 U	560 U	550 U	580 U
7440-28-0	Thallium	TAL-METS-CN-S	mg/kg	2.4 J	4.1	3.4	3.8	2.8 U	2.7 U	2.9 U
7440-62-2	Vanadium	TAL-METS-CN-S	mg/kg	81.1	105	226	103	36	97	120
7440-66-6	Zinc	TAL-METS-CN-S	mg/kg	3060 J	3210 J	3470 J	2580 J	970	3500	5200
57-12-5	Cyanide	TAL-METS-CN-S	mg/kg	2.5 U	0.12 J	2.5 U	0.14 J	0.12 UJ	0.11 UJ	0.14 UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	SWSS-28-D 6/21/2004 0 to 12 in	SWSS-29-D 6/22/2004 0 to 12 in	SWSS-30-S 6/22/2004 0 to 2 in	SWSS-31-D 6/22/2004 0 to 12 in	SWSS-32-D 6/22/2004 0 to 12 in	SWSS-33-D 6/24/2004 0 to 12 in	SWSS-34-S 6/24/2004 0 to 2 in
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		27000	25000	21000	32000	25000	27000	26000
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		19	17	11	19	40	26	20
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		12	11	8.6	9.2	12	11	12
7440-39-3	Barium	TAL-METS-CN-S mg/kg		240	160	160	220	240	300	250
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.58 U	0.67 U	0.6	0.58 U	0.58 U	0.56 U	0.54 U
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		11	12	5.8	7.4	9.9	12	9.9
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		28000	17000	15000	16000	19000	25000	19000
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		91	64	50	73	86	90	91
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		19	14	17	17	18	19	19
7440-50-8	Copper	TAL-METS-CN-S mg/kg		1300	1300	720	3400	1500	1600	1300
7439-89-6	Iron	TAL-METS-CN-S mg/kg		80000	57000	53000	76000	89000	100000	82000
7439-92-1	Lead	TAL-METS-CN-S mg/kg		2900	2200	1500	3900	8100	9300	4100
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		8100	10000	7600	7700	9100	7700	9200
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		970	720	780	930	900	1100	920
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		2.7	2.6	1.6	1.9	2.4	2.5	2.7
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		210	120	75	170	180	180	160
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		580 U	670 U	550 U	580 U	580 U	560 U	540 U
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		5.7	4.8	4.2	5.8	5.5	11	5.5
7440-22-4	Silver	TAL-METS-CN-S mg/kg		3.3	1.5	1.1 U	18	2.6	4	2.7
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		580 U	670 U	550 U	580 U	580 U	560 U	540 U
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		2.9 U	3.4 U	2.8 U	2.9 U	2.9 U	2.8 U	2.7 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		150	89	63	170	150	160	160
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		3100	2400	1900	3700	3900	4800	3200
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.12 U	0.15 U	0.11 U	0.74	0.22	0.12 U	0.12

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		Sample Code	SWSS-35-D	SWSS-35-D-Dup	SWSS-36-D	SWSS-37-D
		Sample Name		SWSS-58-D		
		Sample Date	6/24/2004	6/24/2004	6/24/2004	6/24/2004
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 12 in	0 to 12 in	0 to 12 in
(Group Code)	(Group Description)					
4-CLP-met-s	Inorganic Analytes					
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		29000	37000	22000
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		30	33	12
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		15	16	12
7440-39-3	Barium	TAL-METS-CN-S mg/kg		270	330	210
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.56 U	0.57 U	0.53 U
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		20	23	11
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		32000	29000	28000
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		120	120	56
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		19	22	14
7440-50-8	Copper	TAL-METS-CN-S mg/kg		1700	3200	930
7439-89-6	Iron	TAL-METS-CN-S mg/kg		68000	110000	51000
7439-92-1	Lead	TAL-METS-CN-S mg/kg		2600	3300	1200
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		11000	13000	13000
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		900	1100	880
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		3.9	3.2	1.7
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		190	190	92
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		560 U	570 U	570
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		3.9 U	5.3	3.7 U
7440-22-4	Silver	TAL-METS-CN-S mg/kg		3.7	5.2	1.3
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		560 U	570 U	530 U
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		2.8 U	2.8 U	2.7 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		180	230	92
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		4000	6800	2600
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.17	0.13 U	0.11 U

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				Sample Code	SWSS-01-D	SWSS-02-D	SWSS-03-D	SWSS-04-D	SWSS-05-D	SWSS-06-D	SWSS-07-D
				Sample Name							
				Sample Date	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/14/2004	6/15/2004	6/15/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\								
(Group Code)	(Group Description)										
WetChem-SS-SB	Created by SUPER on 1/5/2005										
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%								
Granule	% Granule & Larger >2.0 MM	Grain Size	%								
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%								
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%								
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg								
pct-SOLID	Percent Solids	Percent Solids	%								
pH	pH	SW9045C	S.U.								

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				Sample Code	SWSS-08-S	SWSS-09-D	SWSS-10-D	SWSS-11-D	SWSS-12-D	SWSS-13-D
				Sample Name						
				Sample Date	6/15/2004	6/15/2004	6/15/2004	6/15/2004	6/16/2004	6/16/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\							
(Group Code)	(Group Description)									
WetChem-SS-SB	Created by SUPER on 1/5/2005									
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%			2.5				
Granule	% Granule & Larger >2.0 MM	Grain Size	%			31				
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%			49				
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%			18				
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg			45000				
pct-SOLID	Percent Solids	Percent Solids	%							
pH	pH	SW9045C	S.U.			8.2				

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				Sample Code	SWSS-13-D-DUP	SWSS-14-S	SWSS-15-S	SWSS-16-D	SWSS-17-S	SWSS-18-D
				Sample Name	SWSS-55-D					
				Sample Date	6/16/2004	6/16/2004	6/16/2004	6/16/2004	6/17/2004	6/17/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\							
(Group Code)	(Group Description)									
WetChem-SS-SB	Created by SUPER on 1/5/2005									
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%							
Granule	% Granule & Larger >2.0 MM	Grain Size	%							
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%							
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%							
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg							
pct-SOLID	Percent Solids	Percent Solids	%							
pH	pH	SW9045C	S.U.							

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				Sample Code	SWSS-19-D	SWSS-20-S	SWSS-21-D	SWSS-22-D	SWSS-23-D	SWSS-24-D	SWSS-25-D
				Sample Name	6/17/2004	6/17/2004	6/18/2004	6/18/2004	6/18/2004	6/18/2004	6/21/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\	Sample Date							
(Group Code)	(Group Description)										
WetChem-SS-SB	Created by SUPER on 1/5/2005										
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%								
Granule	% Granule & Larger >2.0 MM	Grain Size	%								
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%								
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%								
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg								
pct-SOLID	Percent Solids	Percent Solids	%								
pH	pH	SW9045C	S.U.								

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				Sample Code	SWSS-26-S	SWSS-27-D	SWSS-28-D	SWSS-29-D	SWSS-30-S	SWSS-31-D	SWSS-32-D
				Sample Name							
				Sample Date	6/21/2004	6/21/2004	6/21/2004	6/22/2004	6/22/2004	6/22/2004	6/22/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\								
(Group Code)	(Group Description)										
WetChem-SS-SB	Created by SUPER on 1/5/2005										
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%								
Granule	% Granule & Larger >2.0 MM	Grain Size	%								
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%								
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%								
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg								
pct-SOLID	Percent Solids	Percent Solids	%								
pH	pH	SW9045C	S.U.								

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				Sample Code	SWSS-33-D	SWSS-34-S	SWSS-35-D	SWSS-35-D-Dup	SWSS-36-D	SWSS-37-D
				Sample Name				SWSS-58-D		
				Sample Date	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004	6/24/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\							
(Group Code)	(Group Description)									
WetChem-SS-SB	Created by SUPER on 1/5/2005									
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%							
Granule	% Granule & Larger >2.0 MM	Grain Size	%							
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%							
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%							
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg							
pct-SOLID	Percent Solids	Percent Solids	%							
pH	pH	SW9045C	S.U.							

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-01-S		PASS-02-D		PASS-03-D		PASS-04-D		PASS-05-S		PASS-06-D	
				4/6/2004 0 to 2 in		4/6/2004 0 to 12 in		4/6/2004 0 to 12 in		4/6/2004 0 to 12 in		4/6/2004 0 to 2 in		4/6/2004 0 to 12 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
67-64-1	Acetone	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	13	UJ
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	UJ
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
67-66-3	Chloroform	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
71-43-2	Benzene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
108-88-3	Toluene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	10	UJ	10	UJ	11	UJ	10	UJ	11	UJ	11	R

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-01-S	PASS-02-D	PASS-03-D	PASS-04-D	PASS-05-S	PASS-06-D
				4/6/2004 0 to 2 in	4/6/2004 0 to 12 in	4/6/2004 0 to 12 in	4/6/2004 0 to 12 in	4/6/2004 0 to 2 in	4/6/2004 0 to 12 in
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
100-42-5	Styrene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
75-25-2	Bromoform	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	4 J
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	12 J
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	10 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 R

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-07-D 4/6/2004 0 to 12 ft		PASS-08-D 4/6/2004 0 to 12 in		PASS-09-D 4/7/2004 0 to 12 in		PASS-10-D 4/7/2004 0 to 12 in		PASS-11-D 4/7/2004 0 to 12 in		PASS-12-D 4/7/2004 0 to 12 in	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
67-64-1	Acetone	TCL-VOA-S	ug/kg	15	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
67-66-3	Chloroform	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
71-43-2	Benzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-07-D		PASS-08-D		PASS-09-D		PASS-10-D		PASS-11-D		PASS-12-D	
				4/6/2004 0 to 12 ft		4/6/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
100-42-5	Styrene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
75-25-2	Bromoform	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	14	UJ	15	UJ	12	UJ	11	UJ	10	UJ	14	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-13-S		PASS-14-D		PASS-15-D		PASS-15-D-Dup PASS-51-D		PASS-16-S		PASS-17-D	
				4/7/2004	0 to 2 in	4/7/2004	0 to 12 in	4/7/2004	0 to 12 in	4/7/2004	0 to 12 in	4/7/2004	0 to 2 in	4/7/2004	0 to 12 in
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
67-64-1	Acetone	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	18	UJ
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
67-66-3	Chloroform	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
71-43-2	Benzene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	15	UJ	10	UJ	11	UJ	14	UJ	10	UJ	14	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-13-S 4/7/2004 0 to 2 in	PASS-14-D 4/7/2004 0 to 12 in	PASS-15-D 4/7/2004 0 to 12 in	PASS-15-D-Dup PASS-51-D 4/7/2004 0 to 12 in	PASS-16-S 4/7/2004 0 to 2 in	PASS-17-D 4/7/2004 0 to 12 in
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
100-42-5	Styrene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
75-25-2	Bromoform	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	15 UJ	10 UJ	11 UJ	14 UJ	10 UJ	14 UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-18-D		PASS-19-D		PASS-20-D		PASS-20-D-Dup PASS-52-D		PASS-21-D	
				4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in	
(Group Code)	(Group Description)												
1-VOA-s	Volatile Organic Compounds												
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
67-64-1	Acetone	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	10 UJ		13 J		12 UJ		11 UJ		12 UJ	
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
67-66-3	Chloroform	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
71-43-2	Benzene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
108-88-3	Toluene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	10 UJ		13 UJ		12 UJ		11 UJ		12 UJ	

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-18-D		PASS-19-D		PASS-20-D		PASS-20-D-Dup PASS-52-D		PASS-21-D	
				4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in		4/7/2004 0 to 12 in	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
100-42-5	Styrene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
75-25-2	Bromoform	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	10	UJ	13	UJ	12	UJ	11	UJ	12	UJ

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-01-S 4/6/2004 0 to 2 in	PASS-02-D 4/6/2004 0 to 12 in	PASS-03-D 4/6/2004 0 to 12 in	PASS-04-D 4/6/2004 0 to 12 in	PASS-05-S 4/6/2004 0 to 2 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
108-95-2	Phenol	TCL-BNA-S	ug/kg	1900 UJ	4100 UJ	2000 UJ	4200 UJ	4400 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	1900 UJ	4100 UJ	2000 UJ	4200 UJ	4400 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	1900 UJ	4100 UJ	2000 UJ	4200 UJ	4400 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	1900 UJ	4100 UJ	2000 UJ	4200 UJ	4400 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
78-59-1	Isophorone	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	1900 U	2400 J	2000 U	910 J	4400 U
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	1900 UJ	4100 UJ	2000 UJ	4200 UJ	4400 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	1900 U	1400 J	2000 U	4200 U	4400 U
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	1900 U	520 J	2000 U	520 J	4400 U
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	4700 U	10000 U	5100 U	11000 U	11000 U
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	4700 UJ	10000 UJ	5100 UJ	11000 UJ	11000 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	420 J	1600 J	2000 U	1500 J	4400 U
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	4700 U	10000 U	5100 U	11000 U	11000 U
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	240 J	2300 J	270 J	2900 J	530 J

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Process Area Surface Soils
Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-06-D 4/6/2004 0 to 12 in	PASS-07-D 4/6/2004 0 to 12 ft	PASS-08-D 4/6/2004 0 to 12 in	PASS-09-D 4/7/2004 0 to 12 in	PASS-10-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	4500 UJ	1900 UJ	4300 UJ	4000 UJ	4200 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	4500 UJ	1900 UJ	4300 UJ	4000 UJ	4200 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	4500 UJ	1900 UJ	4300 UJ	4000 UJ	4200 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	4500 UJ	1900 UJ	4300 UJ	4000 UJ	4200 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	4500 UJ	1900 UJ	4300 UJ	4000 UJ	4200 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	11000 U	4700 U	11000 U	10000 UJ	11000 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	11000 UJ	4700 UJ	11000 UJ	10000 UJ	11000 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	11000 U	4700 U	11000 U	10000 UJ	11000 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	4500 U	260 J	500 J	4000 UJ	540 J

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-11-D 4/7/2004 0 to 12 in	PASS-12-D 4/7/2004 0 to 12 in	PASS-13-S 4/7/2004 0 to 2 in	PASS-14-D 4/7/2004 0 to 12 in	PASS-15-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	300 J	4000 UJ	2000 UJ	4200 UJ	2200 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	2000 UJ	2500 J	2000 UJ	4200 UJ	2200 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	490 J	2200 UJ

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-15-D-Dup PASS-51-D 4/7/2004 0 to 12 in	PASS-16-S 4/7/2004 0 to 2 in	PASS-17-D 4/7/2004 0 to 12 in	PASS-18-D 4/7/2004 0 to 12 in	PASS-19-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1							
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	Sample Code Sample Name Sample Date 4/7/2004 0 to 12 in	PASS-20-D PASS-52-D 4/7/2004 0 to 12 in	PASS-21-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)					
2-SV-1-S	Semi-Volatile Organic Compounds - Page 1					
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	2000 UJ	200 J	1900 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	2000 UJ	440 J	1900 UJ

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Process Area Surface Soils
Semi-Volatile Organic Compounds - Page 2

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-01-S 4/6/2004 0 to 2 in	PASS-02-D 4/6/2004 0 to 12 in	PASS-03-D 4/6/2004 0 to 12 in	PASS-04-D 4/6/2004 0 to 12 in	PASS-05-S 4/6/2004 0 to 2 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	4700 UJ	10000 UJ	5100 UJ	11000 UJ	11000 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	4700 UJ	10000 UJ	5100 UJ	11000 UJ	11000 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	1900 U	1000 J	2000 U	1300 J	4400 U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	210 J	1900 J	260 J	2700 J	580 J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	4700 U	10000 U	5100 U	11000 U	11000 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	4700 UJ	10000 UJ	5100 UJ	11000 UJ	11000 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	1900 U	4100 U	2000 U	4200 U	4400 U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	4700 U	10000 U	5100 U	11000 U	11000 U
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	2300	14000	3200	23000	5100
120-12-7	Anthracene	TCL-BNA-S	ug/kg	670 J	4100	1000 J	7000	1400 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	300 J	2300 J	410 J	3000 J	800 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	1900 U	1400 J	2000 U	2900 J	4400 U
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	4400	19000	5500	40000	8900
129-00-0	Pyrene	TCL-BNA-S	ug/kg	3800	19000	5400	40000	8800
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	1800 J	3300 J	1500 J	9500	7100
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	1900 UJ	4100 UJ	2000 UJ	4200 UJ	4400 UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	2400	12000	3100	19000	4800
218-01-9	Chrysene	TCL-BNA-S	ug/kg	2800	13000	3600	22000	5800
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	2300	13000	40000	63000	16000
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	220 J	4100 U	830 J	4200 U	4400 U
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	2900	13000	3300	22000	5900
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	2800	10000	3200	20000	5200
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	2900	13000	3500	23000	6100
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	2400	12000	2900	17000	4600
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	700 J	3600 J	900 J	5500	1300 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	790 J	3800 J	1200 J	4800	1900 J

Consolidated Iron
Process Area Surface Soils
Semi-Volatile Organic Compounds - Page 2

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-06-D 4/6/2004 0 to 12 in	PASS-07-D 4/6/2004 0 to 12 ft	PASS-08-D 4/6/2004 0 to 12 in	PASS-09-D 4/7/2004 0 to 12 in	PASS-10-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	11000 UJ	4700 UJ	11000 UJ	10000 UJ	11000 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	11000 UJ	4700 UJ	11000 UJ	10000 UJ	11000 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	450 J	230 J	520 J	4000 UJ	4200 UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	11000 U	4700 U	11000 U	10000 UJ	11000 UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	11000 UJ	4700 UJ	11000 UJ	10000 UJ	11000 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	4500 U	1900 U	4300 U	4000 UJ	4200 UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	11000 U	4700 U	11000 U	10000 UJ	11000 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	3300 J	2200	3900 J	1000 J	4600 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	1200 J	650 J	1200 J	410 J	1500 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	650 J	380 J	620 J	4000 UJ	640 J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	720 J	1900 U	4300 U	4000 UJ	4200 UJ
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	10000	3500	8000	2000 J	7600 J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	13000	3200	8500	2100 J	7700 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	6200	1300 J	3000 J	4300 J	2200 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	4500 UJ	1900 UJ	4300 UJ	4000 R	4200 R
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	5000	2100	4800	1300 J	4100 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	5900	2400	5500	1500 J	4600 J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	73000	2300	15000	19000 J	16000 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	1800 J	1900 U	560 J	4000 UJ	4200 UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	5500	2500	5700	1900 J	4600 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	4900	2500	4900	1800 J	4000 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	5700	2600	5900	1400 J	5000 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	3600 J	2000	4700	1500 J	4000 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	1000 J	550 J	1300 J	500 J	1400 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	2000 J	810 J	1700 J	4000 UJ	1600 J

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Process Area Surface Soils
Semi-Volatile Organic Compounds - Page 2

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-11-D 4/7/2004 0 to 12 in	PASS-12-D 4/7/2004 0 to 12 in	PASS-13-S 4/7/2004 0 to 2 in	PASS-14-D 4/7/2004 0 to 12 in	PASS-15-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	5100 UJ	10000 UJ	5100 UJ	11000 UJ	5500 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	1600 J	1900 J	740 J	5600 J	530 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	480 J	660 J	220 J	1500 J	2200 UJ
86-74-8	Carbazole	TCL-BNA-S	ug/kg	230 J	4000 UJ	2000 UJ	630 J	2200 UJ
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	2800 J	4200 J	1300 J	9800 J	1000 J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	2800 J	4500 J	1400 J	10000 J	1100 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	1000 J	1500 J	1700 J	8600 J	3100 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	2000 R	4000 R	2000 R	4200 R	2200 R
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	1600 J	2700 J	670 J	5100 J	680 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	1600 J	2900 J	840 J	5700 J	720 J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	10000 J	6600 J	2300 J	17000 J	2000 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	2000 UJ	4000 UJ	2000 UJ	4200 UJ	2200 UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	1600 J	3200 J	840 J	5200 J	750 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	1400 J	2400 J	670 J	4400 J	610 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	1700 J	3200 J	900 J	6000 J	870 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	1300 J	2700 J	600 J	4100 J	650 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	450 J	750 J	2000 UJ	1300 J	2200 UJ
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	510 J	2000 J	780 J	3900 J	790 J

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Semi-Volatile Organic Compounds - Page 2

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-15-D-Dup PASS-51-D 4/7/2004 0 to 12 in	PASS-16-S 4/7/2004 0 to 2 in	PASS-17-D 4/7/2004 0 to 12 in	PASS-18-D 4/7/2004 0 to 12 in	PASS-19-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)							
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2							
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	5600 UJ	4600 UJ	5100 UJ	5000 UJ	5000 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	490 J	950 J	910 J	1300 J	250 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	2200 UJ	300 J	260 J	390 J	2000 UJ
86-74-8	Carbazole	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	2000 UJ
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	2200 UJ	1800 UJ	2000 UJ	2000 UJ	370 J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	810 J	1800 J	1400 J	2800 J	530 J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	1000 J	1800 J	1700 J	2500 J	680 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	1200 J	2400 J	490 J	1100 J	2000 UJ
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	2200 R	1800 R	2000 R	2000 R	2000 R
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	550 J	1100 J	700 J	1400 J	400 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	650 J	1200 J	760 J	1600 J	580 J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	1700 J	2300 J	6800 J	12000 J	910 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	2200 UJ	210 J	2000 UJ	2000 UJ	2000 UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	690 J	1300 J	740 J	1600 J	570 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	620 J	1200 J	610 J	1400 J	420 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	740 J	1500 J	870 J	1500 J	430 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	710 J	1300 J	790 J	1200 J	610 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	2200 UJ	320 J	2000 UJ	330 J	2000 UJ
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	2200 UJ	1300 J	970 J	1100 J	610 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-20-D 4/7/2004 0 to 12 in	PASS-20-D-Dup PASS-52-D 4/7/2004 0 to 12 in	PASS-21-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)					
2-SV-2-S	Semi-Volatile Organic Compounds - Page 2					
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	2000 UJ	290 J	1900 UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	2000 UJ	550 J	1900 UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	1900 UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	5000 UJ	4900 UJ	4700 UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	350 J	4400 J	1100 J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	2000 UJ	1200 J	380 J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	2000 UJ	640 J	1900 UJ
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	270 J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	780 J	4500 J	2100 J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	920 J	4200 J	2100 J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	2100 J	510 J	1700 J
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	2000 R	1900 R	1900 R
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	450 J	2300 J	1400 J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	550 J	2500 J	1600 J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	1800 J	1900 J	3600 J
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	2000 UJ	1900 UJ	290 J
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	520 J	2100 J	1800 J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	420 J	1900 J	1400 J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	580 J	2300 J	1700 J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	560 J	1300 J	1400 J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	2000 UJ	410 J	460 J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	510 J	410 J	1200 J

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		Sample Code	PASS-01-S	PASS-02-D	PASS-03-D	PASS-04-D	PASS-05-S	PASS-06-D	PASS-07-D
		Sample Name							
		Sample Date	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 2 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 12 ft
(Group Code)	(Group Description)								
3-PEST-S	Pesticides/PCBs								
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	3.8 UJ	11 UJ	4.2 UJ	22 UJ	23 UJ	3.9 UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	6.5 R	25 R	21 R	67 R	31 R	4.7 R
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	3.8 UJ	11 UJ	4.2 UJ	22 UJ	23 UJ	3.9 UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	6.3 R	42 R	6.5 R	100 R	92 R	5.9 R
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	3.8 UJ	79 J	42 J	570 J	340 J	3.9 UJ
309-00-2	Aldrin	TCL-P/P-S	ug/kg	3.8 UJ	11 UJ	4.2 UJ	22 UJ	23 UJ	3.9 UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	50 R	110 R	49 R	22 UJ	23 UJ	45 R
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	3.8 UJ	11 UJ	4.2 UJ	110 R	23 UJ	3.9 UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	7.4 UJ	21 UJ	8.1 UJ	42 UJ	44 UJ	7.5 UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	270 J	630 J	280 J	1400 JN	1600 J	250 J
72-20-8	Endrin	TCL-P/P-S	ug/kg	460 J	1100 J	470 J	2500 J	2900 J	420 J
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	29 R	66 R	31 R	42 UJ	170 R	29 R
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	7.4 UJ	21 UJ	8.1 UJ	42 UJ	44 UJ	7.5 UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	30 J	67 JN	34 J	120 JN	93 JN	20 JN
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	7.4 UJ	21 UJ	660 J	3000 J	44 UJ	7.5 UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	99 J	290 J	110 J	220 UJ	270 JN	72 JN
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	7.4 UJ	21 UJ	8.1 UJ	42 UJ	44 UJ	7.5 UJ
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	7.4 UJ	21 UJ	8.1 UJ	42 UJ	44 UJ	7.5 UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	3.8 UJ	11 UJ	4.2 UJ	22 UJ	23 UJ	3.9 UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	3.8 UJ	11 UJ	4.2 UJ	22 UJ	23 UJ	3.9 UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	380 UJ	1100 UJ	420 UJ	2200 UJ	2300 UJ	390 UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	74 UJ	210 UJ	81 UJ	420 UJ	440 UJ	75 UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	150 UJ	420 UJ	170 UJ	850 UJ	890 UJ	150 UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	74 UJ	210 UJ	81 UJ	420 UJ	440 UJ	75 UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	74 UJ	210 UJ	81 UJ	35000 J	28000 J	75 UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	3800 JN	14000 JN	4000 JN	420 UJ	440 UJ	3500 JN
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	6200 J	17000 J	5600 J	33000 J	35000 J	5000 J
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	74 UJ	4800 JN	1700 J	420 UJ	440 UJ	2100 J

Consolidated Iron
Process Area Surface Soils
Pesticides/PCBs

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-08-D 4/6/2004 0 to 12 in	PASS-09-D 4/7/2004 0 to 12 in	PASS-10-D 4/7/2004 0 to 12 in	PASS-11-D 4/7/2004 0 to 12 in	PASS-12-D 4/7/2004 0 to 12 in	PASS-13-S 4/7/2004 0 to 2 in	PASS-14-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)									
3-PEST-S	Pesticides/PCBs									
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	76 J	10 UJ	11 UJ	4.2 UJ	4.1 UJ	6.2 UJ	11 UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	28 R	37 R	18 R	9.8 R	6.4 R	6.2 UJ	27 R
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	11 UJ	10 UJ	11 UJ	4.2 UJ	4.1 UJ	6.2 UJ	11 UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	65 R	75 R	71 R	16 R	11 R	6.2 UJ	71 R
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	320 J	450 J	290 J	46 J	27 J	7.2 J	380 J
309-00-2	Aldrin	TCL-P/P-S	ug/kg	11 UJ	10 UJ	11 UJ	4.2 UJ	4.1 UJ	6.2 UJ	11 UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	11 UJ	10 UJ	11 UJ	39 R	46 R	86 R	11 UJ
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	11 UJ	66 R	11 UJ	18 R	4.1 UJ	6.2 UJ	11 UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	21 UJ	20 UJ	21 UJ	8.1 UJ	8 UJ	12 UJ	21 UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	950 J	530 J	540 J	240 J	270 J	420 J	910 J
72-20-8	Endrin	TCL-P/P-S	ug/kg	1500 J	1300 J	1400 J	350 J	490 J	750 J	1600 J
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	21 UJ	74 R	86 R	23 R	28 R	55 R	87 R
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	21 UJ	20 UJ	21 UJ	8.1 UJ	8 UJ	12 UJ	21 UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	21 UJ	20 UJ	42 R	33 JN	8 UJ	12 UJ	37 R
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	21 UJ	1900 J	21 UJ	8.1 UJ	8 UJ	12 UJ	21 UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	110 UJ	100 UJ	110 UJ	42 UJ	41 UJ	62 UJ	530 R
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	21 UJ	20 UJ	21 UJ	8.1 UJ	8 UJ	12 UJ	21 UJ
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	21 UJ	20 UJ	21 UJ	8.1 UJ	8 UJ	12 UJ	21 UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	11 UJ	10 UJ	11 UJ	4.2 UJ	4.1 UJ	6.2 UJ	11 UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	11 UJ	10 UJ	11 UJ	4.2 UJ	4.1 UJ	6.2 UJ	11 UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	1100 UJ	1000 UJ	1100 UJ	420 UJ	410 UJ	620 UJ	1100 UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	210 UJ	200 UJ	210 UJ	81 UJ	80 UJ	120 UJ	210 UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	440 UJ	400 UJ	430 UJ	170 UJ	160 UJ	250 UJ	430 UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	210 UJ	200 UJ	210 UJ	81 UJ	80 UJ	120 UJ	210 UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	21000 J	200 UJ	210 UJ	81 UJ	80 UJ	120 UJ	210 UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	210 UJ	37000 J	23000 J	4600 J	3600 J	120 UJ	19000 J
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	20000 J	24000 J	22000 J	5800 J	6100 J	11000 J	23000 J
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	6600 J	6100 J	6900 J	2100 J	1800 J	120 UJ	9700 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-15-D	PASS-15-D-Dup PASS-51-D	PASS-16-S	PASS-17-D	PASS-18-D	PASS-19-D	PASS-20-D
				4/7/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 2 in	4/7/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 12 in
(Group Code)	(Group Description)									
3-PEST-S	Pesticides/PCBs									
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	1.9 UJ	2.1 UJ	2 UJ	2 UJ	2 UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	3.6 R	2.1 UJ	2.6 R	2.5 R	2.4 R
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	1.9 UJ	2.1 UJ	2 UJ	2 UJ	2 UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	24 R	23 R	6.5 R	2.1 UJ	2 UJ	3 R	2 UJ
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	55 J	61 J	13 J	2.3 J	9.8 J	2 UJ	6.3 J
309-00-2	Aldrin	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	1.9 UJ	2.1 UJ	2 UJ	2 UJ	2 UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	62 J	57 R	24 R	4.9 R	2 UJ	10 R	7.5 R
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	1.9 UJ	2.1 UJ	2 UJ	4.7 R	2 UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	8.7 UJ	8.9 UJ	3.7 UJ	4.1 UJ	4 UJ	4 UJ	4 UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	360 J	230 J	93 J	12 J	38 JN	32 J	46 J
72-20-8	Endrin	TCL-P/P-S	ug/kg	620 J	630 J	260 J	4.1 UJ	140 J	120 J	84 J
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	36 R	35 R	14 R	5 R	7.2 R	6.5 R	5.1 R
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	8.7 UJ	8.9 UJ	3.7 UJ	4.1 UJ	4 UJ	4 UJ	4 UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	8.7 UJ	8.9 UJ	15 JN	4.1 UJ	4 UJ	4 UJ	4 UJ
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	8.7 UJ	8.9 UJ	3.7 UJ	140 J	200 J	170 J	120 J
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	45 UJ	46 UJ	87 R	52 JN	36 JN	36 R	20 UJ
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	8.7 UJ	8.9 UJ	3.7 UJ	4.1 UJ	4 UJ	4 UJ	4 UJ
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	8.7 UJ	8.9 UJ	3.7 UJ	4.1 UJ	4 UJ	4 UJ	4 UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	1.9 UJ	2.1 UJ	2 UJ	2 UJ	2 UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	4.5 UJ	4.6 UJ	1.9 UJ	2.1 UJ	2 UJ	2 UJ	2 UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	450 UJ	460 UJ	190 UJ	210 UJ	200 UJ	200 UJ	200 UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	87 UJ	89 UJ	37 UJ	41 UJ	40 UJ	40 UJ	40 UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	180 UJ	180 UJ	74 UJ	83 UJ	81 UJ	81 UJ	81 UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	87 UJ	89 UJ	37 UJ	41 UJ	40 UJ	40 UJ	40 UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	87 UJ	89 UJ	37 UJ	41 UJ	40 UJ	40 UJ	40 UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	8300 J	8300 J	1600 J	170 J	1200 J	910 J	710 J
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	9300 J	9400 J	3500 J	460 J	1800 J	1300 J	1100 J
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	2000 J	2000 J	920 J	660 J	740 J	500 J	380 J

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Process Area Surface Soils
Pesticides/PCBs

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-20-D-Dup PASS-52-D 4/7/2004 0 to 12 in	PASS-21-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)				
3-PEST-S	Pesticides/PCBs				
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	2 UJ	5.3 R
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	2 UJ	7.8 R
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	5 J	21 J
309-00-2	Aldrin	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	6.6 R	26 R
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	20 JN	170 J
72-20-8	Endrin	TCL-P/P-S	ug/kg	72 J	320 J
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	4.1 R	17 R
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	3.9 UJ	16 R
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	100 J	3.7 UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	20 UJ	120 R
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	3.9 UJ	3.7 UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	2 UJ	1.9 UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	200 UJ	190 UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	39 UJ	37 UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	79 UJ	76 UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	39 UJ	37 UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	39 UJ	37 UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	570 J	3300 J
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	950 J	4500 J
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	380 J	37 UJ

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Process Area Surface Soils
Inorganic Analytes

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			Sample Code	PASS-01-S	PASS-02-D	PASS-03-D	PASS-04-D	PASS-05-S	PASS-06-D	PASS-07-D
			Sample Name							
			Sample Date	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004
Cas Rn	Chemical Name	Analytic Method	Unit \ Depth	0 to 2 in	0 to 12 in	0 to 12 in	0 to 12 in	0 to 2 in	0 to 12 in	0 to 12 ft
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		18600	19200	23700	27100	31500	37600	26900
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		15	34.6	17	52	51.3	97.5	22.2
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		10.9 *	15.3 *	9.9 *	23.4 *	24.3 *	26.4 *	10.3 *
7440-39-3	Barium	TAL-METS-CN-S mg/kg		177 J*	368 J*	174 J*	838 J*	520 J*	682 J*	227 J*
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.49 J	0.34 J	0.47 J	0.64	0.36 J	0.4 J	0.51 J
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		11.1 *	31.9 *	12.8 *	30.2 *	31.9 *	96.5 *	12.3 *
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		19700	17400	23900	20900	17300	16800	21200
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		77.1	114	69	187	143	153	83.7
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		15.7	20.4	13.8	26.7	19.5	21.3	15.5
7440-50-8	Copper	TAL-METS-CN-S mg/kg		909 *	1420 *	1210 *	5840 *D	2350 *	2730 *	1350 *
7439-89-6	Iron	TAL-METS-CN-S mg/kg		51800	94400	51300	127000	95200	89000	52600
7439-92-1	Lead	TAL-METS-CN-S mg/kg		1000	1880	1560	4070	3530	3970	1270
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		7880	5620	10200	5920	7640	7580	9220
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		672	851	695	1040	931	909	733
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		3.5	7.3 D	1.9	12.6 D	10.6 D	5.1	3.4
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		101 J*	177 J*	87.8 J*	238 J*	239 J*	216 J*	92.9 J*
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		883 EJ	561 EJ	831 EJ	895 EJ	531 EJ	654 EJ	989 EJ
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		3.9 U	4.3 U	4 U	4.4 U	4.4 U	4.5 U	3.8 U
7440-22-4	Silver	TAL-METS-CN-S mg/kg		2.9 JN	4.9 JN	2.7 JN	6.2 JN	5.8 JN	4.9 JN	3 JN
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		284 J	539 J	390 J	1400	1150	809	290 J
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		2.8 U	3.1 U	2.9 U	3.1 U	3.1 U	3.2 U	2.7 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		51.1	119	53.5	204	126	114	56.1
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		2000 EJ	4250 EJ	2280 EJ	6200 EJ	10900 EJ	5410 EJ	1940 EJ
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		2.8 U	0.46 J	2.9 U	0.51 J	0.95 J	0.56 J	2.8 U

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Process Area Surface Soils
Inorganic Analytes

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			Sample Code	PASS-08-D	PASS-09-D	PASS-10-D	PASS-11-D	PASS-12-D	PASS-13-S	PASS-14-D
			Sample Name							
Cas Rn	Chemical Name	Analytic Method	Sample Date Unit \ Depth	4/6/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 12 in	4/7/2004 0 to 2 in	4/7/2004 0 to 12 in
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		37400	44500	42000	61100	32900	42300	52400
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		85.1	43.9	47.2	25.4	14.8	16.5	45.3
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		27 *	22.8	28.4	7.3	10.2	8.4	16.2
7440-39-3	Barium	TAL-METS-CN-S mg/kg		1930 J*	622	514	142	152	171	419
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.68	0.41 J	0.41 J	0.39 J	0.47 J	0.45 J	0.36 J
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		78.4 *	42.5 *	46.6 *	9.3 *	11.2 *	11.9 *	34.7 *
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		17900	13000	20600	21200	17400	52400	13300
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		184	230	177	103	93.8	93.7	152
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		20.7	20.6	21.2	10.4	14.2	10.3	15.7
7440-50-8	Copper	TAL-METS-CN-S mg/kg		2710 *	2970	2760	4780 D	1840	4190 D	3710
7439-89-6	Iron	TAL-METS-CN-S mg/kg		90500	93400 J*	99400 J*	60000 J*	49600 J*	30500 J*	77500 J*
7439-92-1	Lead	TAL-METS-CN-S mg/kg		3270	3580	3930	4680	1250	1040	2500
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		6810	5190	8040	7180	7100	37100	5780
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		1010	904	1080	777	729	741	845
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		12.2 D	15.2 D	8.2 D	1.2	2.3	1.4	8 D
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		189 J*	413 *	263 *	125 *	98.8 *	75.1 *	282 *
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		1590 EJ	594 EJ	624 EJ	476 EJ	686 EJ	578 EJ	479 EJ
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		3.4 J	0.63 J	4.3 U	1.2 J	4.2 U	4.2 U	0.62 J
7440-22-4	Silver	TAL-METS-CN-S mg/kg		10.9 JN	8.3	7	6.5	3.3	1.9	5.4
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		2290	711	713	376 J	414 J	315 J	630 J
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		3 U	2.9 U	3.1 U	2.9 U	3 U	3 U	3.2 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		111	170	256	57.3	55.4	32.7	107
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		7570 EJ	6560	6850	3050	2710	1820	5780
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.23 J	2.9 U	3.2 U	3 U	3 U	3 U	3.2 U

Consolidated Iron
Process Area Surface Soils
Inorganic Analytes

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-15-D 0 to 12 in	PASS-15-D-Dup PASS-51-D 4/7/2004 0 to 12 in	PASS-16-S 4/7/2004 0 to 2 in	PASS-17-D 4/7/2004 0 to 12 in	PASS-18-D 4/7/2004 0 to 12 in	PASS-19-D 4/7/2004 0 to 12 in	PASS-20-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		147000 D	124000 D	42400	67400	50300	146000 D	45200
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		74.3 J	111 J	19	18.1	22.5	59.2	33.5
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		19.5 J	12.5 J	7.8	8.8	9.7	7.3	8.2
7440-39-3	Barium	TAL-METS-CN-S mg/kg		473	417	130	151	158	236	285 J
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.41 J	0.46 J	0.37 J	0.48 J	0.44 J	0.56 J	0.54 J
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		32 *	33.9 *	9.3 *	13.2 *	23.4 *	17.7 *	60.5 *
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		17300	9430	22100	11900	11500	13700	35800
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		266	335	132	112	125	277	104
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		15.3	12.4	12.1	11.8	12.7	12.9	9.6
7440-50-8	Copper	TAL-METS-CN-S mg/kg		7930 D	8410 D	3100	2660	3870 D	11000 D	2050
7439-89-6	Iron	TAL-METS-CN-S mg/kg		46200 J*	53100 J*	52800 J*	39000 J*	46000 J*	54800 J*	46200 J*
7439-92-1	Lead	TAL-METS-CN-S mg/kg		3450	4220	1260	1080	1770	2480	1770
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		6340	6950	6680	5110	4850	4890	7520
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		1600	1330	724	1090	798	1370	778
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		3.8	2.8	1.4	3.6	2.2	1	3.1 R
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		265 *	196 *	140 *	98.8 *	128 *	229 *	87.8 *
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		542 EJ	505 EJ	546 EJ	592 EJ	483 EJ	500 EJ	727 EJ
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		4.5 U	4.5 U	3.8 U	4.3 U	4.1 U	4.2 U	4.1 U
7440-22-4	Silver	TAL-METS-CN-S mg/kg		8.1	10.1	4.5	3.4	5.1	13	2.6
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		694	704	402 J	251 J	340 J	548 J	642
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		3.2 U	3.2 U	2.7 U	3 U	3 U	3 U	2.9 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		92	77.2	51.6	39.9	46.9	60	36.4
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		6100	6220	2480	2080	2980	5230	2650
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		3.2 U	3.3 U	2.8 U	3.1 U	3 U	3 U	3 U

Consolidated Iron
Process Area Surface Soils
Inorganic Analytes

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \ Depth	PASS-20-D-Dup PASS-52-D 4/7/2004 0 to 12 in	PASS-21-D 4/7/2004 0 to 12 in
(Group Code)	(Group Description)				
4-CLP-met-s	Inorganic Analytes				
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		55000	37800
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		21.7	22.1
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		7.4	9.3
7440-39-3	Barium	TAL-METS-CN-S mg/kg		179 J	185
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		0.61	0.63
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		50.9 *	15.7 *
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		45200	16600
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		95	129
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		10.2	12.8
7440-50-8	Copper	TAL-METS-CN-S mg/kg		2560	2690
7439-89-6	Iron	TAL-METS-CN-S mg/kg		39300 J*	50600 J*
7439-92-1	Lead	TAL-METS-CN-S mg/kg		1010	1370
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		12000	6100
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		824	750
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		0.62 R	1.8
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		87.4 *	115 *
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		915 EJ	580 EJ
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		0.91 J	3.9 U
7440-22-4	Silver	TAL-METS-CN-S mg/kg		2.7	5.3
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		469 J	340 J
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		3 U	2.8 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		37.4	52.5
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		2470	2360
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		3 U	2.8 U

Consolidated Iron
Process Area Surface Soils
Wet Chemistry

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		Sample Code		PASS-01-S	PASS-02-D	PASS-03-D	PASS-04-D	PASS-05-S	PASS-06-D	PASS-07-D
		Sample Name								
		Sample Date		4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004	4/6/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\							
(Group Code)	(Group Description)									
WetChem-SS-SB	Created by SUPER on 1/5/2005									
2378-TCDD	2378-TCDD	Dioxin	ng/kg		5.06		7.65	10.9		2.87
2378-TCDF	2378-TCDF	Dioxin	ng/kg		28.3		54.9	82.5		33.3
12378-PeCDF	12378-PeCDF	Dioxin	ng/kg		17.4		35.4	41.2		15.6
12378-PeCDD	12378-PeCDD	Dioxin	ng/kg		10.4		17.6	25.8		7.44
23478-PeCDF	23478-PeCDF	Dioxin	ng/kg		33.8		68.1	77.2		28.2
123478-HxCDF	123478-HxCDF	Dioxin	ng/kg		51.7		102	118		36.6
123678-HxCDF	123678-HxCDF	Dioxin	ng/kg		37.1		67.1	69.5		28
123478-HxCDD	123478-HxCDD	Dioxin	ng/kg		10.5		16.2	16.9		6.08
123678-HxCDD	123678-HxCDD	Dioxin	ng/kg		55.6		96.9	129		25.9
123789-HxCDD	123789-HxCDD	Dioxin	ng/kg		36.2		59.9	97.3		23.4
234678-HxCDF	234678-HxCDF	Dioxin	ng/kg		33.2		58.2	56.1		28.3
123789-HxCDF	123789-HxCDF	Dioxin	ng/kg		2.66 J		4.44 J	5.25		1.97 J
1234678-HpCDF	1234678-HpCDF	Dioxin	ng/kg		297		493	415		197
1234678-HpCDD	1234678-HpCDD	Dioxin	ng/kg		1280		1670	2420		508
1234789-HpCDF	1234789-HpCDF	Dioxin	ng/kg		31.2		49	53.3		20.5
OCDD	OCDD	Dioxin	ng/kg		12800		13500	18600		4290
OCDF	OCDF	Dioxin	ng/kg		469		540	490		217
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%							
Granule	% Granule & Larger >2.0 MM	Grain Size	%							
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%							
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%							
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg				150000			
pct-solid	Percent Solids	Percent Solids	%				77			
pH	pH	SW9045C	S.U.				7.5			

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	PASS-08-D 4/6/2004	PASS-09-D 4/7/2004	PASS-10-D 4/7/2004	PASS-11-D 4/7/2004	PASS-12-D 4/7/2004	PASS-13-S 4/7/2004	PASS-14-D 4/7/2004
(Group Code)	(Group Description)									
WetChem-SS-SB	Created by SUPER on 1/5/2005									
2378-TCDD	2378-TCDD	Dioxin	ng/kg	9.48	10.3	14.5			2.77	13.7
2378-TCDF	2378-TCDF	Dioxin	ng/kg	74.4	100	69.7			48.5	79.7
12378-PeCDF	12378-PeCDF	Dioxin	ng/kg	38.5	44.4	33.9			31.9	37.9
12378-PeCDD	12378-PeCDD	Dioxin	ng/kg	24.8	29	35			8.54	31.7
23478-PeCDF	23478-PeCDF	Dioxin	ng/kg	73.5	76.5	72			67.2	70.7
123478-HxCDF	123478-HxCDF	Dioxin	ng/kg	95.8	122	98.8			65	101
123678-HxCDF	123678-HxCDF	Dioxin	ng/kg	67.6	77.8	60.5			61.6	65
123478-HxCDD	123478-HxCDD	Dioxin	ng/kg	15.8	14.7	16			8.07	14.6
123678-HxCDD	123678-HxCDD	Dioxin	ng/kg	97.3	97.5	105			19.4	97.8
123789-HxCDD	123789-HxCDD	Dioxin	ng/kg	83.1	93.6	99.6			25	90.5
234678-HxCDF	234678-HxCDF	Dioxin	ng/kg	61.4	64.5	51.4			74.6	56.3
123789-HxCDF	123789-HxCDF	Dioxin	ng/kg	4.43 J	5.28	3.9 J			3.77 J	4.59
1234678-HpCDF	1234678-HpCDF	Dioxin	ng/kg	406	427	357			358	355
1234678-HpCDD	1234678-HpCDD	Dioxin	ng/kg	1490	1480	1660			253	1440
1234789-HpCDF	1234789-HpCDF	Dioxin	ng/kg	46.7	74.9	39.4			29.6	50.7
OCDD	OCDD	Dioxin	ng/kg	11400	12200	12800			1720	11700
OCDF	OCDF	Dioxin	ng/kg	441	443	376			193	379
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%							
Granule	% Granule & Larger >2.0 MM	Grain Size	%							
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%							
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%							
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg							
pct-solid	Percent Solids	Percent Solids	%							
pH	pH	SW9045C	S.U.							

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		Sample Code	PASS-15-D	PASS-15-D-Dup	PASS-16-S	PASS-17-D	PASS-18-D	PASS-19-D
		Sample Name		PASS-51-D				
		Sample Date	4/7/2004	4/7/2004	4/7/2004	4/7/2004	4/7/2004	4/7/2004
Cas Rn	Chemical Name	Analytic Method Unit \\\						
(Group Code)	(Group Description)							
WetChem-SS-SB	Created by SUPER on 1/5/2005							
2378-TCDD	2378-TCDD	Dioxin ng/kg	23	22.7	2.79		3	9.47
2378-TCDF	2378-TCDF	Dioxin ng/kg	130	131	34.3		50.6	163
12378-PeCDF	12378-PeCDF	Dioxin ng/kg	58.4	55.8	13.8		24.7	66.4
12378-PeCDD	12378-PeCDD	Dioxin ng/kg	40.1	39.9	6.45		8.81	30
23478-PeCDF	23478-PeCDF	Dioxin ng/kg	98.6	96.2	26.1		49.1	102
123478-HxCDF	123478-HxCDF	Dioxin ng/kg	91.5	69.7	27.8		46	86.6
123678-HxCDF	123678-HxCDF	Dioxin ng/kg	98.1	93.7	25		50.1	92.2
123478-HxCDD	123478-HxCDD	Dioxin ng/kg	14.4	14.3	4.48 J		7.61	12.8
123678-HxCDD	123678-HxCDD	Dioxin ng/kg	64.6	67.8	18.3		22.4	46.8
123789-HxCDD	123789-HxCDD	Dioxin ng/kg	87.4	90.7	17.8		25.6	69.9
234678-HxCDF	234678-HxCDF	Dioxin ng/kg	92.8	90.6	26.2		60.3	87.4
123789-HxCDF	123789-HxCDF	Dioxin ng/kg	7.12	6.83	1.51 J		2.88 J	3.94 J
1234678-HpCDF	1234678-HpCDF	Dioxin ng/kg	488	486	173		380	403
1234678-HpCDD	1234678-HpCDD	Dioxin ng/kg	792	836	332		338	343
1234789-HpCDF	1234789-HpCDF	Dioxin ng/kg	52.4	48.3	14		24.7	26.5
OCDD	OCDD	Dioxin ng/kg	5380	5340	2630		2390	1270
OCDF	OCDF	Dioxin ng/kg	306	327	139		239	144
Clay	% Clay & Colloids <=0.002 MM	Grain Size %						
Granule	% Granule & Larger >2.0 MM	Grain Size %						
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size %						
Silt	% Silt >0.002 - 0.074 MM	Grain Size %						
TOC	Total Organic Carbon	Lloyd Kahn mg/kg	67000	22000				
pct-solid	Percent Solids	%	82	81				
pH	pH	SW9045C S.U.	7.7	7.8				

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Cas Rn	Chemical Name	Analytic Method	Unit \	Sample Code Sample Name Sample Date 4/7/2004	PASS-20-D PASS-20-D-Dup PASS-52-D 4/7/2004	PASS-21-D 4/7/2004
(Group Code)	(Group Description)					
WetChem-SS-SB	Created by SUPER on 1/5/2005					
2378-TCDD	2378-TCDD	Dioxin	ng/kg			3.27
2378-TCDF	2378-TCDF	Dioxin	ng/kg			44.9
12378-PeCDF	12378-PeCDF	Dioxin	ng/kg			19
12378-PeCDD	12378-PeCDD	Dioxin	ng/kg			8.66
23478-PeCDF	23478-PeCDF	Dioxin	ng/kg			36.2
123478-HxCDF	123478-HxCDF	Dioxin	ng/kg			40.5
123678-HxCDF	123678-HxCDF	Dioxin	ng/kg			35.4
123478-HxCDD	123478-HxCDD	Dioxin	ng/kg			6.74
123678-HxCDD	123678-HxCDD	Dioxin	ng/kg			25.2
123789-HxCDD	123789-HxCDD	Dioxin	ng/kg			25.6
234678-HxCDF	234678-HxCDF	Dioxin	ng/kg			40.8
123789-HxCDF	123789-HxCDF	Dioxin	ng/kg			2.05 J
1234678-HpCDF	1234678-HpCDF	Dioxin	ng/kg			247
1234678-HpCDD	1234678-HpCDD	Dioxin	ng/kg			417
1234789-HpCDF	1234789-HpCDF	Dioxin	ng/kg			20.3
OCDD	OCDD	Dioxin	ng/kg			3160
OCDF	OCDF	Dioxin	ng/kg			219
Clay	% Clay & Colloids <=0.002 MM	Grain Size	%			
Granule	% Granule & Larger >2.0 MM	Grain Size	%			
Sand	% Sand (TOTAL) >0.074 - 2.0 MM	Grain Size	%			
Silt	% Silt >0.002 - 0.074 MM	Grain Size	%			
TOC	Total Organic Carbon	Lloyd Kahn	mg/kg			
pct-solid	Percent Solids	Percent Solids	%			
pH	pH	SW9045C	S.U.			

Sediment Samples

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06	
				8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004	
(Group Code)	(Group Description)														
1-VOA-s	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
67-64-1	Acetone	TCL-VOA-S	ug/kg	59	J	34	J	55	J	28	J	56	J	31	J
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	12	J	15	UJ
67-66-3	Chloroform	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
71-43-2	Benzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ

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Volatile Organic Compounds

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06	
				8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	12	UJ	16	UJ	4	J	16	UJ	18	UJ	15	UJ
100-42-5	Styrene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
75-25-2	Bromoform	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	4	J	16	UJ	18	UJ	15	UJ
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	12	UJ	16	UJ	15	UJ	16	UJ	18	UJ	15	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-07		SD-08		SD-09		SD-10		SD-11		SD-12		SD-13	
				8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004	
(Group Code)	(Group Description)																
1-VOA-s	Volatile Organic Compounds																
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
67-64-1	Acetone	TCL-VOA-S	ug/kg	51	J	33	J	48	J	20	UJ	26		42	J	56	J
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	11	J	16	UJ	8	J	20	UJ	12	U	18	UJ	10	J
67-66-3	Chloroform	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
71-43-2	Benzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
108-88-3	Toluene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ

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Gas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-07		SD-08		SD-09		SD-10		SD-11		SD-12		SD-13	
				8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
100-42-5	Styrene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
75-25-2	Bromoform	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	16	UJ	16	UJ	20	UJ	12	U	18	UJ	17	UJ

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Volatile Organic Compounds

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		Sample Code		SD-14		SD-15		SD-16		SD-16-Dup SD-21		SD-17		SD-18		SD-19	
		Sample Name		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/19/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\														
(Group Code)	(Group Description)																
1-VOA-s	Volatile Organic Compounds																
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
67-64-1	Acetone	TCL-VOA-S	ug/kg	16	UJ	49	J	45	J	14	UJ	120		73	J	10	U
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	16	UJ	8	J	21	UJ	14	UJ	26		14	J	10	U
67-66-3	Chloroform	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
71-43-2	Benzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
108-87-2	Methylcyclohexane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
108-88-3	Toluene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U

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Volatile Organic Compounds

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \l	SD-14		SD-15		SD-16		SD-16-Dup SD-21		SD-17		SD-18		SD-19	
				8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/19/2004	
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
100-42-5	Styrene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	16	UJ	15	UJ	21	UJ	14	UJ	13	U	19	UJ	10	U

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Sediment Samples
Volatile Organic Compounds

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			Sample Code	SD-20	
			Sample Name		
			Sample Date	8/19/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\		
(Group Code)	(Group Description)				
1-VOA-s	Volatile Organic Compounds				
75-71-8	Dichlorodifluoromethane	TCL-VOA-S	ug/kg	9	U
74-87-3	Chloromethane	TCL-VOA-S	ug/kg	9	U
75-01-4	Vinyl Chloride	TCL-VOA-S	ug/kg	9	U
74-83-9	Bromomethane	TCL-VOA-S	ug/kg	9	UJ
75-00-3	Chloroethane	TCL-VOA-S	ug/kg	9	UJ
75-69-4	Trichlorofluoromethane	TCL-VOA-S	ug/kg	9	U
75-35-4	1,1-Dichloroethene	TCL-VOA-S	ug/kg	9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-S	ug/kg	9	UJ
67-64-1	Acetone	TCL-VOA-S	ug/kg	21	
75-15-0	Carbon Disulfide	TCL-VOA-S	ug/kg	9	U
79-20-9	Methyl Acetate	TCL-VOA-S	ug/kg	9	U
75-09-2	Methylene Chloride	TCL-VOA-S	ug/kg	9	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-S	ug/kg	9	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-S	ug/kg	9	U
75-34-3	1,1-Dichloroethane	TCL-VOA-S	ug/kg	9	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-S	ug/kg	9	U
78-93-3	2-Butanone	TCL-VOA-S	ug/kg	9	U
67-66-3	Chloroform	TCL-VOA-S	ug/kg	9	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-S	ug/kg	9	U
110-82-7	Cyclohexane	TCL-VOA-S	ug/kg	9	U
56-23-5	Carbon Tetrachloride	TCL-VOA-S	ug/kg	9	U
71-43-2	Benzene	TCL-VOA-S	ug/kg	9	U
107-06-2	1,2-Dichloroethane	TCL-VOA-S	ug/kg	9	U
79-01-6	Trichloroethene	TCL-VOA-S	ug/kg	9	U
108-87-2	Metylcyclohexane	TCL-VOA-S	ug/kg	9	U
78-87-5	1,2-Dichloropropane	TCL-VOA-S	ug/kg	9	U
75-27-4	Bromodichloromethane	TCL-VOA-S	ug/kg	9	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-S	ug/kg	9	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-S	ug/kg	9	U
108-88-3	Toluene	TCL-VOA-S	ug/kg	4	J
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-S	ug/kg	9	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-S	ug/kg	9	U
127-18-4	Tetrachloroethene	TCL-VOA-S	ug/kg	9	U
591-78-6	2-Hexanone	TCL-VOA-S	ug/kg	9	U
124-48-1	Dibromochloromethane	TCL-VOA-S	ug/kg	9	U
106-93-4	1,2-Dibromoethane	TCL-VOA-S	ug/kg	9	U
108-90-7	Chlorobenzene	TCL-VOA-S	ug/kg	13	

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			Sample Code	SD-20	
			Sample Name		
			Sample Date	8/19/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\		
100-41-4	Ethylbenzene	TCL-VOA-S	ug/kg	9	U
1330-20-7	m,p-Xylenes	TCL-VOA-S	ug/kg	9	U
100-42-5	Styrene	TCL-VOA-S	ug/kg	9	U
75-25-2	Bromoform	TCL-VOA-S	ug/kg	9	U
98-82-8	Isopropylbenzene	TCL-VOA-S	ug/kg	9	U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-S	ug/kg	9	U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-S	ug/kg	9	U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-S	ug/kg	17	
95-50-1	1,2-Dichlorobenzene	TCL-VOA-S	ug/kg	9	U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-S	ug/kg	9	U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-S	ug/kg	9	U

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Semi-Volatile Organic Compounds - Page 1

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06		SD-07	
				8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004		8/17/2004	
(Group Code)	(Group Description)																
2-SV-1-S	SVOCs - Page 1																
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	4600	J	890	UJ	990	UJ	890	UJ	890	UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	1900	J	890	UJ	990	UJ	890	UJ	890	UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	890	UJ	800	UJ	1100	J	890	UJ	990	UJ	890	UJ	890	UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	110	J	800	UJ	1300	J	890	UJ	990	UJ	890	UJ	890	UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	360	J	150	J	17000	J	890	UJ	990	UJ	890	UJ	890	UJ

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Sediment Samples
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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-08		SD-09		SD-10		SD-11		SD-12		SD-13		SD-14	
				8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004		8/18/2004	
(Group Code)	(Group Description)																
2-SV-1-S	SVOCs - Page 1																
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	160	J	91	J	100	J	1000	UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	70	J	890	UJ	890	UJ	1000	UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	160	J	890	UJ	890	UJ	1000	UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	920	R	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	98	J	890	UJ	890	UJ	1000	UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	470	J	890	UJ	890	UJ	1000	UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	140	J	890	UJ	890	UJ	1000	UJ
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	350	J	94	J	890	UJ	1000	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-15 8/18/2004	SD-16 8/18/2004	SD-16-Dup SD-21 8/18/2004	SD-17 8/18/2004	SD-18 8/18/2004	SD-19 8/19/2004	SD-20 8/19/2004
(Group Code)	(Group Description)									
2-SV-1-S	SVOCs - Page 1									
100-52-7	Benzaldehyde	TCL-BNA-S	ug/kg	93 J	160 J	970 UJ	140 J	210 J	3800 U	1500 UJ
108-95-2	Phenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
95-57-8	2-Chlorophenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
95-48-7	2-Methylphenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
98-86-2	Acetophenone	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
106-44-5	4-Methylphenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
67-72-1	Hexachloroethane	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
98-95-3	Nitrobenzene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
78-59-1	Isophorone	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
88-75-5	2-Nitrophenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
105-67-9	2,4-Dimethylphenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
120-83-2	2,4-Dichlorophenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
91-20-3	Naphthalene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
106-47-8	4-Chloroaniline	TCL-BNA-S	ug/kg	920 UJ	990 R	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
87-68-3	Hexachlorobutadiene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
105-60-2	Caprolactam	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
91-57-6	2-Methylnaphthalene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-S	ug/kg	2300 UJ	2500 UJ	2400 UJ	1600 U	2600 UJ	9600 U	3700 UJ
92-52-4	1,1'-Biphenyl	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
91-58-7	2-Chloronaphthalene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
88-74-4	2-Nitroaniline	TCL-BNA-S	ug/kg	2300 UJ	2500 UJ	2400 UJ	1600 U	2600 UJ	9600 U	3700 UJ
131-11-3	Dimethylphthalate	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
606-20-2	2,6-Dinitrotoluene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	660 U	1000 UJ	3800 U	1500 UJ
208-96-8	Acenaphthylene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	110 J	1000 UJ	3800 U	240 J
99-09-2	3-Nitroaniline	TCL-BNA-S	ug/kg	2300 UJ	2500 UJ	2400 UJ	1600 U	2600 UJ	9600 U	3700 UJ
83-32-9	Acenaphthene	TCL-BNA-S	ug/kg	920 UJ	990 UJ	970 UJ	190 J	170 J	4700	350 J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06		SD-07	
				8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004		8/17/2004	
(Group Code)	(Group Description)																
2-SV-2-S	SVOCs - Page 2																
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	160	J	800	UJ	8700	J	890	UJ	990	UJ	890	UJ	890	UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	380	J	800	UJ	14000	J	890	UJ	990	UJ	890	UJ	890	UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	2200	UJ	2000	UJ	19000	UJ	2200	UJ	2500	UJ	2200	UJ	2200	UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	790	J	280	J	57000	J	890	UJ	100	J	110	J	110	J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	420	J	160	J	22000	J	890	UJ	990	UJ	890	UJ	890	UJ
86-74-8	Carbazole	TCL-BNA-S	ug/kg	890	UJ	800	UJ	890	J	890	UJ	990	UJ	890	UJ	890	UJ
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	120	J	130	J	120	J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	5900	J	740	J	42000	J	180	J	190	J	190	J	170	J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	3200	J	890	J	42000	J	220	J	250	J	220	J	210	J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	890	UJ	340	J	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	2500	J	650	J	20000	J	92	J	180	J	130	J	110	J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	4300	J	870	J	20000	J	110	J	140	J	160	J	140	J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	890	UJ	46000	J	7500	UJ	890	UJ	3000	J	890	UJ	890	UJ
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	890	UJ	800	UJ	7500	UJ	890	UJ	990	UJ	890	UJ	890	UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	2600	J	400	J	16000	J	120	J	220	J	230	J	170	J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	1000	J	220	J	6100	J	890	UJ	110	J	890	UJ	890	UJ
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	1600	J	320	J	15000	J	99	J	180	J	140	J	150	J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	480	J	140	J	7400	J	890	UJ	990	UJ	93	J	890	UJ
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	150	J	800	UJ	2400	J	890	UJ	990	UJ	890	UJ	890	UJ
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	560	J	190	J	6800	J	890	UJ	120	J	120	J	140	J

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Sediment Samples
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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-08		SD-09		SD-10		SD-11		SD-12		SD-13		SD-14	
				8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004		8/18/2004	
(Group Code)	(Group Description)																
2-SV-2-S	SVOCs - Page 2																
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	170	J	890	UJ	890	UJ	1000	UJ
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
86-73-7	Fluorene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	370	J	100	J	890	UJ	1000	UJ
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	2300	UJ	2100	UJ	2600	UJ	1500	UJ	2200	UJ	2200	UJ	2500	UJ
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	110	J	180	J	380	J	3200	J	810	J	140	J	220	J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	810	J	220	J	890	UJ	1000	UJ
86-74-8	Carbazole	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	300	J	890	UJ	890	UJ	1000	UJ
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	150	J	96	J	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	200	J	280	J	610	J	6200	J	1300	J	270	J	460	J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	230	J	280	J	730	J	3900	J	1500	J	300	J	450	J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	910	J	120	J	890	UJ	1000	UJ
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	590	UJ	890	UJ	890	UJ	1000	UJ
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	130	J	180	J	340	J	2900	J	710	J	160	J	280	J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	160	J	200	J	410	J	3500	J	840	J	200	J	350	J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	7200	J	1200	UJ	890	UJ	1000	UJ
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	510	J	890	UJ	890	UJ	1000	UJ
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	190	J	240	J	440	J	4100	J	870	J	270	J	370	J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	920	UJ	100	J	190	J	1600	J	370	J	96	J	160	J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	140	J	200	J	320	J	3400	J	670	J	190	J	290	J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	920	UJ	94	J	220	J	3000	J	490	J	110	J	180	J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	920	UJ	840	UJ	1000	UJ	850	J	150	J	890	UJ	1000	UJ
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	120	J	99	J	590	J	2000	J	400	J	95	J	170	J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-15		SD-16		SD-16-Dup SD-21		SD-17		SD-18		SD-19		SD-20	
				8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/19/2004		8/19/2004	
(Group Code)	(Group Description)																
2-SV-2-S	SVOCs - Page 2																
51-28-5	2,4-Dinitrophenol	TCL-BNA-S	ug/kg	2300	UJ	2500	UJ	2400	UJ	1600	U	2600	UJ	9600	U	3700	U
100-02-7	4-Nitrophenol	TCL-BNA-S	ug/kg	2300	UJ	2500	UJ	2400	UJ	1600	U	2600	UJ	9600	U	3700	U
132-64-9	Dibenzofuran	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	79	J	1000	UJ	1900	J	210	J
121-14-2	2,4-Dinitrotoluene	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
84-66-2	Diethylphthalate	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
86-73-7	Fluorene	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	220	J	190	J	4800		350	J
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
100-01-6	4-Nitroaniline	TCL-BNA-S	ug/kg	2300	UJ	2500	UJ	2400	UJ	1600	U	2600	UJ	9600	U	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-S	ug/kg	2300	UJ	2500	UJ	2400	UJ	1600	U	2600	UJ	9600	U	3700	U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
118-74-1	Hexachlorobenzene	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
1912-24-9	Atrazine	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
87-86-5	Pentachlorophenol	TCL-BNA-S	ug/kg	2300	UJ	2500	UJ	2400	UJ	1600	U	2600	UJ	9600	U	3700	U
85-01-8	Phenanthrene	TCL-BNA-S	ug/kg	190	J	280	J	380	J	2400		1900	J	28000		5000	J
120-12-7	Anthracene	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	550	J	400	J	8300		970	J
86-74-8	Carbazole	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	220	J	210	J	2700	J	460	J
84-74-2	Di-n-butylphthalate	TCL-BNA-S	ug/kg	110	J	150	J	970	UJ	660	U	1000	UJ	3800	U	11000	J
206-44-0	Fluoranthene	TCL-BNA-S	ug/kg	330	J	510	J	600	J	4500		3000	J	40000		8700	J
129-00-0	Pyrene	TCL-BNA-S	ug/kg	360	J	620	J	690	J	5700		2800	J	40000		6900	J
85-68-7	Butylbenzylphthalate	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	430	J	330	J	1200	J	1500	U
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	660	U	1000	UJ	3800	U	1500	U
56-55-3	Benzo(a)anthracene	TCL-BNA-S	ug/kg	180	J	300	J	340	J	2700		1300	J	16000		3900	J
218-01-9	Chrysene	TCL-BNA-S	ug/kg	250	J	400	J	390	J	3000		1600	J	16000		4300	J
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	1900		2200	J	3800	U	2900	U
117-84-0	Di-n-octylphthalate	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	71	J	190	J	3800	U	170	J
205-99-2	Benzo(b)fluoranthene	TCL-BNA-S	ug/kg	330	J	500	J	410	J	3000		1700	J	15000		4800	J
207-08-9	Benzo(k)fluoranthene	TCL-BNA-S	ug/kg	920	UJ	170	J	170	J	1000		700	J	5900		1800	J
50-32-8	Benzo(a)pyrene	TCL-BNA-S	ug/kg	240	J	340	J	300	J	2200		1400	J	12000		3900	J
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-S	ug/kg	120	J	180	J	220	J	1700		1100	J	7700		3800	J
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-S	ug/kg	920	UJ	990	UJ	970	UJ	470	J	410	J	2400	J	780	J
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-S	ug/kg	120	J	160	J	140	J	1100		830	J	4700		1600	J

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-01 8/16/2004		SD-02 8/16/2004		SD-03 8/16/2004		SD-04 8/16/2004		SD-05 8/16/2004		SD-06 8/17/2004		SD-07 8/17/2004	
(Group Code)	(Group Description)																
3-PEST-S	Pesticides/PCBs																
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
309-00-2	Aldrin	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	8.9	UJ	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	9	J	4.7	J	7.5	UJ	5.7	J	7.5	J	6.8	J	6.3	J
72-20-8	Endrin	TCL-P/P-S	ug/kg	8.9	UJ	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	8.9	UJ	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	4.7	J	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	8.9	UJ	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	8.9	UJ	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	46	UJ	41	UJ	38	UJ	46	UJ	51	UJ	46	UJ	46	UJ
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	8.9	UJ	15	J	11	J	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	8.9	UJ	8	UJ	7.5	UJ	8.9	UJ	10	UJ	8.9	UJ	8.9	UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	4.6	UJ	4.1	UJ	3.8	UJ	4.6	UJ	5.1	UJ	4.6	UJ	4.6	UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	460	UJ	410	UJ	380	UJ	460	UJ	510	UJ	460	UJ	460	UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	89	UJ	80	UJ	75	UJ	89	UJ	100	UJ	89	UJ	89	UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	180	UJ	160	UJ	150	UJ	180	UJ	200	UJ	180	UJ	180	UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	89	UJ	80	UJ	75	UJ	89	UJ	100	UJ	89	UJ	89	UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	89	UJ	80	UJ	75	UJ	89	UJ	100	UJ	89	UJ	89	UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	260	J	100	J	100	J	230	J	300	J	280	J	270	J
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	89	UJ	80	UJ	75	UJ	89	UJ	100	UJ	89	UJ	89	UJ
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	89	UJ	80	UJ	75	UJ	89	UJ	100	UJ	89	UJ	89	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-08 8/17/2004	SD-09 8/17/2004	SD-10 8/17/2004	SD-11 8/17/2004	SD-12 8/17/2004	SD-13 8/18/2004	SD-14 8/18/2004
(Group Code)	(Group Description)									
3-PEST-S	Pesticides/PCBs									
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
309-00-2	Aldrin	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	6.6 J	4.4 J	5.6 J	12 J	6.1 J	7.3 J	4.7 J
72-20-8	Endrin	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	47 UJ	43 UJ	53 UJ	30 UJ	46 UJ	46 UJ	51 UJ
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	5.9 UJ	8.9 UJ	8.9 UJ	9.9 UJ
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	9.2 UJ	8.4 UJ	10 UJ	7 J	8.9 UJ	8.9 UJ	9.9 UJ
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	4.7 UJ	4.3 UJ	5.3 UJ	3 UJ	4.6 UJ	4.6 UJ	5.1 UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	470 UJ	430 UJ	530 UJ	300 UJ	460 UJ	460 UJ	510 UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	92 UJ	84 UJ	100 UJ	59 UJ	89 UJ	89 UJ	99 UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	190 UJ	170 UJ	210 UJ	120 UJ	180 UJ	180 UJ	200 UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	92 UJ	84 UJ	100 UJ	59 UJ	89 UJ	89 UJ	99 UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	92 UJ	84 UJ	100 UJ	59 UJ	89 UJ	89 UJ	99 UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	260 J	200 R	210 J	520 J	200 R	220 J	210 R
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	92 UJ	84 UJ	100 UJ	59 UJ	89 UJ	89 UJ	99 UJ
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	92 UJ	84 UJ	100 UJ	59 UJ	89 UJ	89 UJ	99 UJ

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		Sample Code		SD-15		SD-16		SD-16-Dup SD-21		SD-17		SD-18		SD-19		SD-20	
		Sample Name		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/18/2004		8/19/2004		8/19/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\														
(Group Code)	(Group Description)																
3-PEST-S	Pesticides/PCBs																
319-84-6	alpha-BHC	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
319-85-7	beta-BHC	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
319-86-8	delta-BHC	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
58-89-9	gamma-BHC (Lindane)	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
76-44-8	Heptachlor	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
309-00-2	Aldrin	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
1024-57-3	Heptachlor epoxide	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
959-98-8	Endosulfan I	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
60-57-1	Dieldrin	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	6.6	U	10	UJ	3.8	U	4.9	UJ
72-55-9	4,4'-DDE	TCL-P/P-S	ug/kg	5.9	J	6.3	J	7	J	9.8	J	6.5	J	3.5	J	4.5	J
72-20-8	Endrin	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	6.6	U	10	UJ	3.8	U	4.9	UJ
33213-65-9	Endosulfan II	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	6.6	U	10	UJ	3.8	U	4.9	UJ
72-54-8	4,4'-DDD	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	11		10	UJ	3.3	J	4.9	UJ
1031-07-8	Endosulfan sulfate	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	6.6	U	10	UJ	3.8	U	4.9	UJ
50-29-3	4,4'-DDT	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	6.6	U	10	UJ	3.8	U	4.9	UJ
72-43-5	Methoxychlor	TCL-P/P-S	ug/kg	47	UJ	51	UJ	50	UJ	34	U	53	UJ	20	U	25	UJ
53494-70-5	Endrin ketone	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	7.2	R	10	UJ	3.8	U	6.2	JN
7421-93-4	Endrin aldehyde	TCL-P/P-S	ug/kg	9.2	UJ	10	UJ	9.6	UJ	8.4	JN	10	UJ	3.8	U	3.2	J
5103-71-9	alpha-Chlordane	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
5103-74-2	gamma-Chlordane	TCL-P/P-S	ug/kg	4.7	UJ	5.1	UJ	5	UJ	3.4	U	5.3	UJ	2	U	2.5	UJ
8001-35-2	Toxaphene	TCL-P/P-S	ug/kg	470	UJ	510	UJ	500	UJ	340	U	530	UJ	200	U	250	UJ
12674-11-2	Aroclor-1016	TCL-P/P-S	ug/kg	92	UJ	100	UJ	96	UJ	66	U	100	UJ	38	U	49	UJ
11104-28-2	Aroclor-1221	TCL-P/P-S	ug/kg	190	UJ	200	UJ	200	UJ	130	U	210	UJ	78	U	100	UJ
11141-16-5	Aroclor-1232	TCL-P/P-S	ug/kg	92	UJ	100	UJ	96	UJ	66	U	100	UJ	38	U	49	UJ
53469-21-9	Aroclor-1242	TCL-P/P-S	ug/kg	92	UJ	100	UJ	96	UJ	66	U	100	UJ	38	U	49	UJ
12672-29-6	Aroclor-1248	TCL-P/P-S	ug/kg	280	R	260	J	290	J	460	R	230	J	38	U	49	UJ
11097-69-1	Aroclor-1254	TCL-P/P-S	ug/kg	92	UJ	100	UJ	96	UJ	66	U	100	UJ	38	U	160	R
11096-82-5	Aroclor-1260	TCL-P/P-S	ug/kg	92	UJ	100	UJ	96	UJ	66	U	100	UJ	38	U	49	UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code	SD-01		SD-02		SD-03		SD-04		SD-05		SD-06		SD-07	
			Sample Name Sample Date Unit \\\	8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004		8/17/2004	
(Group Code)	(Group Description)																
4-CLP-met-s	Inorganic Analytes																
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		12000 J		13000 J		10000 J		15000 J		16000 J		16000 J		14000 J	
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		14 J		14 J		13 J		16 UJ		17 J		16 UJ		16 UJ	
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		5.9 J		7.2 J		6.1 J		6.9 J		4.2 J		6.1 J		6.3 J	
7440-39-3	Barium	TAL-METS-CN-S mg/kg		210 J		73 J		260 J		89 J		96 J		97 J		85 J	
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		1.1 UJ		1.2 UJ		1.1 UJ		1.4 UJ		1.4 UJ		1.3 UJ		1.3 UJ	
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		1.4 J		1.2 UJ		1.2 J		1.4 UJ		1.4 UJ		1.3 UJ		1.3 UJ	
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		7800 J		3000 J		4800 J		4800 J		4800 J		5300 J		4700 J	
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		55 J		29 J		40 J		60 J		63 J		68 J		60 J	
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		14 J		14 J		13 J		16 J		17 J		18 J		16 J	
7440-50-8	Copper	TAL-METS-CN-S mg/kg		100 J		31 J		130 J		64 J		68 J		70 J		62 J	
7439-89-6	Iron	TAL-METS-CN-S mg/kg		29000 J		29000 J		25000 J		33000 J		35000 J		36000 J		33000 J	
7439-92-1	Lead	TAL-METS-CN-S mg/kg		100 J		38 J		120 J		62 J		68 J		70 J		61 J	
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		6200 J		5500 J		5400 J		6600 J		6900 J		7400 J		6600 J	
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		980 J		1200 J		930 J		1900 J		2000 J		2400 J		2000 J	
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		0.11 UJ		0.12 J		0.33 J		0.37 J		0.46 J		0.42 J		0.37 J	
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		31 J		29 J		27 J		34 J		37 J		38 J		34 J	
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		1500 J		1900 J		1200 J		2000 J		2000 J		2100 J		1900 J	
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		8 J		8.1 J		7.4 J		9.5 UJ		9.7 J		9.1 UJ		9.2 UJ	
7440-22-4	Silver	TAL-METS-CN-S mg/kg		2.3 UJ		2.3 UJ		2.1 UJ		2.7 UJ		2.8 UJ		2.6 UJ		2.6 UJ	
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		1100 J		1200 UJ		1100 UJ		1400 UJ		1400 UJ		1300 UJ		1300 UJ	
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		5.7 J		5.8 J		5.3 J		6.8 UJ		6.9 J		6.5 UJ		6.5 UJ	
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		23 J		25 J		19 J		27 J		29 J		30 J		27 J	
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		150 J		120 J		200 J		190 J		200 J		210 J		180 J	
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		0.5 J		5.6 UJ		0.91 J		7.4 UJ		7.3 UJ		7 UJ		1.4 J	

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			Sample Code	SD-08	SD-09	SD-10	SD-11	SD-12	SD-13	SD-14
			Sample Name							
			Sample Date	8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/18/2004	8/18/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\							
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		15000 J	14000 J	15000 J	12000	13000 J	16000 J	15000 J
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		17 J	15 UJ	17 UJ	11 U	15 J	17 UJ	18 UJ
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		5.9 J	5.1 J	4.4 J	5.6	4.6 J	5.5 J	5.1 J
7440-39-3	Barium	TAL-METS-CN-S mg/kg		89 J	82 J	110 J	80	89 J	94 J	89 J
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		1.4 UJ	1.3 UJ	1.4 UJ	0.96 U	1.3 UJ	1.4 UJ	1.5 UJ
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		1.4 UJ	1.3 UJ	1.4 J	1.4	1.3 UJ	1.4 UJ	1.5 UJ
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		4800 J	4500 J	5700 J	13000	7300 J	4700 J	5400 J
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		59 J	58 J	56 J	42	51 J	64 J	60 J
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		16 J	15 J	16 J	10	14 J	17 J	16 J
7440-50-8	Copper	TAL-METS-CN-S mg/kg		63 J	61 J	66 J	340	82 J	70 J	69 J
7439-89-6	Iron	TAL-METS-CN-S mg/kg		33000 J	31000 J	33000 J	27000	29000 J	35000 J	35000 J
7439-92-1	Lead	TAL-METS-CN-S mg/kg		62 J	59 J	63 J	360	78 J	71 J	69 J
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		5700 J	6400 J	6700 J	7800	5900 J	6800 J	6800 J
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		1800 J	1800 J	1700 J	610	1400 J	1800 J	1700 J
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		0.35 J	0.41 J	0.36 J	0.54	0.38 J	0.39 J	0.46 J
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		34 J	33 J	34 J	36	30 J	37 J	35 J
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		2100 J	2000 J	1900 J	1100	2000 J	2400 J	2100 J
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		9.7 J	8.8 UJ	10 UJ	6.7 U	8.9 J	10 UJ	10 UJ
7440-22-4	Silver	TAL-METS-CN-S mg/kg		2.8 UJ	2.5 UJ	2.9 UJ	1.9 UJ	2.5 UJ	3.4 J	3 UJ
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		1400 UJ	1300 UJ	1400 UJ	960 U	1300 UJ	1400 UJ	1500 UJ
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		7 J	6.3 UJ	7.2 UJ	4.8 U	6.4 J	7.2 UJ	7.4 UJ
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		28 J	26 J	27 J	28	24 J	29 J	28 J
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		180 J	180 J	190 J	450	190 J	200 J	200 J
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		7.4 UJ	7.2 UJ	8.2 UJ	0.42 J	6 UJ	7.6 UJ	7.8 UJ

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SD-15 8/18/2004	SD-16 8/18/2004	SD-16-Dup SD-21 8/18/2004	SD-17 8/18/2004	SD-18 8/18/2004	SD-19 8/19/2004	SD-20 8/19/2004
(Group Code)	(Group Description)									
4-CLP-met-s	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-CN-S mg/kg		13000 J	17000 J	15000 J	18000	15000 J	12000	8500
7440-36-0	Antimony	TAL-METS-CN-S mg/kg		17 UJ	17 UJ	16 UJ	12 U	18 UJ	7.4 U	8.3 U
7440-38-2	Arsenic	TAL-METS-CN-S mg/kg		5.3 J	5.6 J	5 J	14	4 J	1.5	3.3
7440-39-3	Barium	TAL-METS-CN-S mg/kg		82 J	99 J	94 J	180	100 J	47	380
7440-41-7	Beryllium	TAL-METS-CN-S mg/kg		1.4 UJ	1.5 UJ	1.3 UJ	0.97 U	1.5 UJ	0.62 U	0.7 U
7440-43-9	Cadmium	TAL-METS-CN-S mg/kg		1.4 UJ	1.5 UJ	1.3 UJ	1.7	1.5 UJ	0.62 U	0.7 U
7440-70-2	Calcium	TAL-METS-CN-S mg/kg		4300 J	5200 J	5000 J	7100	5300 J	16000	15000
7440-47-3	Chromium	TAL-METS-CN-S mg/kg		55 J	69 J	63 J	86	59 J	18	31
7440-48-4	Cobalt	TAL-METS-CN-S mg/kg		14 J	18 J	17 J	15	16 J	9.2	11
7440-50-8	Copper	TAL-METS-CN-S mg/kg		59 J	82 J	73 J	2600	74 J	36	95
7439-89-6	Iron	TAL-METS-CN-S mg/kg		30000 J	38000 J	34000 J	69000	34000 J	32000	25000
7439-92-1	Lead	TAL-METS-CN-S mg/kg		60 J	83 J	72 J	400	77 J	67	340
7439-95-4	Magnesium	TAL-METS-CN-S mg/kg		5800 J	7200 J	6600 J	5600	6500 J	10000	8100
7439-96-5	Manganese	TAL-METS-CN-S mg/kg		1700 J	1900 J	1900 J	1300	1700 J	540	370
7439-97-6	Mercury	TAL-METS-CN-S mg/kg		0.37 J	0.47 J	0.44 J	0.44	0.43 J	0.36	0.17
7440-02-0	Nickel	TAL-METS-CN-S mg/kg		31 J	39 J	36 J	86	34 J	21	33
7440-09-7	Potassium	TAL-METS-CN-S mg/kg		2000 J	2500 J	2000 J	1700	1800 J	700	750
7782-49-2	Selenium	TAL-METS-CN-S mg/kg		9.7 UJ	10 UJ	9.4 UJ	6.8 U	10 UJ	4.3 U	4.9 U
7440-22-4	Silver	TAL-METS-CN-S mg/kg		3 J	7.2 J	5 J	2.3	2.9 UJ	1.2 U	1.4 U
7440-23-5	Sodium	TAL-METS-CN-S mg/kg		1400 UJ	1500 UJ	1300 UJ	970 U	1500 UJ	620 U	700 U
7440-28-0	Thallium	TAL-METS-CN-S mg/kg		6.9 UJ	7.3 UJ	6.7 UJ	4.8 U	7.3 UJ	3.1 U	3.5 U
7440-62-2	Vanadium	TAL-METS-CN-S mg/kg		25 J	31 J	28 J	29	29 J	15	17
7440-66-6	Zinc	TAL-METS-CN-S mg/kg		170 J	230 J	210 J	1100	210 J	160	420
57-12-5	Cyanide	TAL-METS-CN-S mg/kg		7.7 UJ	0.66 J	7.4 UJ	4.9 U	7.8 UJ	0.28 J	0.31 J

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				SD-01	SD-02	SD-03	SD-04	SD-05	SD-06	SD-07
Sample Code Sample Name Sample Date				8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/17/2004	8/17/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\							
(Group Code)	(Group Description)									
Sed-wetchem	Created by SUPER on 12/2/2004									
pct-solid	Percent Solids	Percent Solids	%	40	43	47	35	35	39	37
pH	pH	SW9045C	S.U.	6.6 R	6.5 R	6.6 R	7 R	6.8 R	6.9 R	7 R
TOC	Total Organic Carbon	SW9060	mg/kg	58000	26000	48000	28000	37000	43000	57000
7440-23-5	Sodium	SW9081	M/100	36	36	33	36	50	36 J*	39 J*

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Sediment Samples
Wet Chemistry

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				SD-08		SD-09		SD-10		SD-11		SD-12		SD-13		SD-14	
				Sample Code		Sample Name		Sample Date									
				8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004		8/18/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\														
(Group Code)	(Group Description)																
Sed-wetchem	Created by SUPER on 12/2/2004																
pct-solid	Percent Solids	Percent Solids	%	36		37		34		56		37		35		35	
pH	pH	SW9045C	S.U.	7 R		6.9 R		6.9 R		6.6 R		6.9 R		6.4		6.5	
TOC	Total Organic Carbon	SW9060	mg/kg	41000		45000		41000		42000		33000		49000		42000	
7440-23-5	Sodium	SW9081	M/100	53 J*		52 J*		32 J*		19 J*		45 J*		54		78	

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Wet Chemistry

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				Sample Code	SD-15	SD-16	SD-16-Dup	SD-17	SD-18	SD-19	SD-20
				Sample Name	8/18/2004	8/18/2004	SD-21	8/18/2004	8/18/2004	8/19/2004	8/19/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\	Sample Date							
(Group Code)	(Group Description)										
Sed-wetchem	Created by SUPER on 12/2/2004										
pct-solid	Percent Solids	Percent Solids	%		35	36	37	55	36	83	79
pH	pH	SW9045C	S.U.		6.7	6.3	6.4	6.6	6.3	9.6	7.4
TOC	Total Organic Carbon	SW9060	mg/kg		64000	37000	44000	29000	47000	18000	12000
7440-23-5	Sodium	SW9081	M/100		73	61	65	41	52	3.1 U	3.3 U

Surface Water Samples

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			Sample Code	SW-01		SW-02		SW-03		SW-04		SW-05		SW-06		SW-07	
			Sample Name	8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004		8/17/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\														
(Group Code)	(Group Description)																
1-VOA-w	Volatile Organic Compounds																
75-71-8	Dichlorodifluoromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
74-87-3	Chloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl Chloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	TCL-VOA-W	ug/l	10	UJ	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ
75-00-3	Chloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
75-35-4	1,1-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
67-64-1	Acetone	TCL-VOA-W	ug/l	10	UJ	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ
75-15-0	Carbon Disulfide	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
79-20-9	Methyl Acetate	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene Chloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
75-34-3	1,1-Dichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
78-93-3	2-Butanone	TCL-VOA-W	ug/l	10	UJ	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ
67-66-3	Chloroform	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
110-82-7	Cyclohexane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
56-23-5	Carbon Tetrachloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
71-43-2	Benzene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
79-01-6	Trichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
108-87-2	Metylcyclohexane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
108-88-3	Toluene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
591-78-6	2-Hexanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
124-48-1	Dibromochloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U
108-90-7	Chlorobenzene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SW-08		SW-09		SW-10		SW-11		SW-12		SW-13	
				8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004	
(Group Code)	(Group Description)														
1-VOA-w	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-W	ug/l	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ
74-87-3	Chloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl Chloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	TCL-VOA-W	ug/l	10	UJ	10	UJ	10	U	10	U	10	U	10	U
75-00-3	Chloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-35-4	1,1-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-W	ug/l	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ
67-64-1	Acetone	TCL-VOA-W	ug/l	10	UJ	10	UJ	10	U	10	U	10	U	10	U
75-15-0	Carbon Disulfide	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
79-20-9	Methyl Acetate	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene Chloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-34-3	1,1-Dichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
78-93-3	2-Butanone	TCL-VOA-W	ug/l	10	UJ	10	UJ	10	U	10	U	10	U	10	U
67-66-3	Chloroform	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
110-82-7	Cyclohexane	TCL-VOA-W	ug/l	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ
56-23-5	Carbon Tetrachloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
71-43-2	Benzene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
79-01-6	Trichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-87-2	Methylcyclohexane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-88-3	Toluene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
591-78-6	2-Hexanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
124-48-1	Dibromochloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-90-7	Chlorobenzene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SW-08	SW-09	SW-10	SW-11	SW-12	SW-13
				8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/18/2004
100-41-4	Ethylbenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
1330-20-7	m,p-Xylenes	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
98-82-8	Isopropylbenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SW-14 8/18/2004		SW-15 8/18/2004		SW-16 8/18/2004		SW-16-Dup SW-21 8/18/2004		SW-17 8/18/2004		SW-18 8/18/2004	
(Group Code)	(Group Description)														
1-VOA-w	Volatile Organic Compounds														
75-71-8	Dichlorodifluoromethane	TCL-VOA-W	ug/l	10	UJ	10	U	10	UJ	10	UJ	10	UJ	10	UJ
74-87-3	Chloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-01-4	Vinyl Chloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
74-83-9	Bromomethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-00-3	Chloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-35-4	1,1-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-W	ug/l	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
67-64-1	Acetone	TCL-VOA-W	ug/l	10	U	10	UJ	10	U	10	U	10	U	10	U
75-15-0	Carbon Disulfide	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
79-20-9	Methyl Acetate	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-09-2	Methylene Chloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-34-3	1,1-Dichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
78-93-3	2-Butanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
67-66-3	Chloroform	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
110-82-7	Cyclohexane	TCL-VOA-W	ug/l	10	UJ	10	U	10	UJ	10	UJ	10	UJ	10	UJ
56-23-5	Carbon Tetrachloride	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
71-43-2	Benzene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
79-01-6	Trichloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-87-2	Methylcyclohexane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
75-27-4	Bromodichloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-88-3	Toluene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
127-18-4	Tetrachloroethene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
591-78-6	2-Hexanone	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
124-48-1	Dibromochloromethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
108-90-7	Chlorobenzene	TCL-VOA-W	ug/l	10	U	10	U	10	U	10	U	10	U	10	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code	SW-14	SW-15	SW-16	SW-16-Dup	SW-17	SW-18
			Sample Name Sample Date Unit \\\	8/18/2004	8/18/2004	8/18/2004	SW-21 8/18/2004	8/18/2004	8/18/2004
100-41-4	Ethylbenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
1330-20-7	m,p-Xylenes	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
100-42-5	Styrene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
75-25-2	Bromoform	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
98-82-8	Isopropylbenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SW-19		SW-20	
				8/19/2004		8/19/2004	
(Group Code)	(Group Description)						
1-VOA-w	Volatile Organic Compounds						
75-71-8	Dichlorodifluoromethane	TCL-VOA-W	ug/l	10	UJ	10	U
74-87-3	Chloromethane	TCL-VOA-W	ug/l	10	UJ	10	U
75-01-4	Vinyl Chloride	TCL-VOA-W	ug/l	10	UJ	10	U
74-83-9	Bromomethane	TCL-VOA-W	ug/l	10	UJ	10	U
75-00-3	Chloroethane	TCL-VOA-W	ug/l	10	UJ	10	U
75-69-4	Trichlorofluoromethane	TCL-VOA-W	ug/l	10	UJ	10	U
75-35-4	1,1-Dichloroethene	TCL-VOA-W	ug/l	10	UJ	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	TCL-VOA-W	ug/l	10	UJ	10	UJ
67-64-1	Acetone	TCL-VOA-W	ug/l	10	UJ	10	UJ
75-15-0	Carbon Disulfide	TCL-VOA-W	ug/l	10	UJ	10	U
79-20-9	Methyl Acetate	TCL-VOA-W	ug/l	10	UJ	10	U
75-09-2	Methylene Chloride	TCL-VOA-W	ug/l	10	UJ	10	U
156-60-5	trans-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	UJ	10	U
1634-04-4	Methyl tert-Butyl Ether	TCL-VOA-W	ug/l	10	UJ	10	U
75-34-3	1,1-Dichloroethane	TCL-VOA-W	ug/l	10	UJ	10	U
156-59-2	cis-1,2-Dichloroethene	TCL-VOA-W	ug/l	10	UJ	10	U
78-93-3	2-Butanone	TCL-VOA-W	ug/l	10	UJ	10	U
67-66-3	Chloroform	TCL-VOA-W	ug/l	10	UJ	10	U
71-55-6	1,1,1-Trichloroethane	TCL-VOA-W	ug/l	10	UJ	10	U
110-82-7	Cyclohexane	TCL-VOA-W	ug/l	10	UJ	10	U
56-23-5	Carbon Tetrachloride	TCL-VOA-W	ug/l	10	UJ	10	U
71-43-2	Benzene	TCL-VOA-W	ug/l	10	UJ	10	U
107-06-2	1,2-Dichloroethane	TCL-VOA-W	ug/l	10	UJ	10	U
79-01-6	Trichloroethene	TCL-VOA-W	ug/l	10	UJ	10	U
108-87-2	Methylcyclohexane	TCL-VOA-W	ug/l	10	UJ	10	U
78-87-5	1,2-Dichloropropane	TCL-VOA-W	ug/l	10	UJ	10	U
75-27-4	Bromodichloromethane	TCL-VOA-W	ug/l	10	UJ	10	U
10061-01-5	cis-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	UJ	10	U
108-10-1	4-Methyl-2-pentanone	TCL-VOA-W	ug/l	10	UJ	10	U
108-88-3	Toluene	TCL-VOA-W	ug/l	10	UJ	10	U
10061-02-6	trans-1,3-Dichloropropene	TCL-VOA-W	ug/l	10	UJ	10	U
79-00-5	1,1,2-Trichloroethane	TCL-VOA-W	ug/l	10	UJ	10	U
127-18-4	Tetrachloroethene	TCL-VOA-W	ug/l	10	UJ	10	U
591-78-6	2-Hexanone	TCL-VOA-W	ug/l	10	UJ	10	U
124-48-1	Dibromochloromethane	TCL-VOA-W	ug/l	10	UJ	10	U
106-93-4	1,2-Dibromoethane	TCL-VOA-W	ug/l	10	UJ	10	U
108-90-7	Chlorobenzene	TCL-VOA-W	ug/l	10	UJ	10	U

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SW-19		SW-20	
				8/19/2004		8/19/2004	
100-41-4	Ethylbenzene	TCL-VOA-W	ug/l	10	UJ	10	U
1330-20-7	m,p-Xylenes	TCL-VOA-W	ug/l	10	UJ	10	U
100-42-5	Styrene	TCL-VOA-W	ug/l	10	UJ	10	U
75-25-2	Bromoform	TCL-VOA-W	ug/l	10	UJ	10	U
98-82-8	Isopropylbenzene	TCL-VOA-W	ug/l	10	UJ	10	U
79-34-5	1,1,2,2-Tetrachloroethane	TCL-VOA-W	ug/l	10	UJ	10	U
541-73-1	1,3-Dichlorobenzene	TCL-VOA-W	ug/l	10	UJ	10	U
106-46-7	1,4-Dichlorobenzene	TCL-VOA-W	ug/l	10	UJ	10	U
95-50-1	1,2-Dichlorobenzene	TCL-VOA-W	ug/l	10	UJ	10	U
96-12-8	1,2-Dibromo-3-chloropropane	TCL-VOA-W	ug/l	10	UJ	10	U
120-82-1	1,2,4-Trichlorobenzene	TCL-VOA-W	ug/l	10	UJ	10	U

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		Sample Code	SW-15	SW-16	SW-16-Dup	SW-17	SW-18	SW-19	SW-20
		Sample Name							
		Sample Date	8/18/2004	8/18/2004	8/18/2004	8/18/2004	8/18/2004	8/19/2004	8/19/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\						
(Group Code)	(Group Description)								
2-SV-1-W	SVOCs - Page 1								
100-52-7	Benzaldehyde	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
108-95-2	Phenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
111-44-4	bis(2-Chloroethyl) ether	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
95-57-8	2-Chlorophenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
95-48-7	2-Methylphenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
108-60-1	2,2'-oxybis(1-Chloropropane)	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
98-86-2	Acetophenone	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
106-44-5	4-Methylphenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
621-64-7	n-Nitroso-di-n-propylamine	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
67-72-1	Hexachloroethane	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
98-95-3	Nitrobenzene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
78-59-1	Isophorone	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
88-75-5	2-Nitrophenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
105-67-9	2,4-Dimethylphenol	TCL-BNA-W	ug/l	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
111-91-1	bis(2-Chloroethoxy)methane	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
120-83-2	2,4-Dichlorophenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
91-20-3	Naphthalene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 UJ	10 UJ
106-47-8	4-Chloroaniline	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
87-68-3	Hexachlorobutadiene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 UJ	10 UJ
105-60-2	Caprolactam	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
59-50-7	4-Chloro-3-methylphenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
91-57-6	2-Methylnaphthalene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
77-47-4	Hexachlorocyclopentadiene	TCL-BNA-W	ug/l	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
88-06-2	2,4,6-Trichlorophenol	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
95-95-4	2,4,5-Trichlorophenol	TCL-BNA-W	ug/l	25 U	25 U	25 U	25 U	25 U	25 U
92-52-4	1,1'-Biphenyl	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
91-58-7	2-Chloronaphthalene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
88-74-4	2-Nitroaniline	TCL-BNA-W	ug/l	25 U	25 U	25 U	25 U	25 U	25 U
131-11-3	Dimethylphthalate	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
606-20-2	2,6-Dinitrotoluene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
208-96-8	Acenaphthylene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U
99-09-2	3-Nitroaniline	TCL-BNA-W	ug/l	25 U	25 U	25 U	25 U	25 U	25 U
83-32-9	Acenaphthene	TCL-BNA-W	ug/l	10 U	10 U	10 U	10 U	10 U	10 U

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		Sample Code	SW-01	SW-02	SW-03	SW-04	SW-05	SW-06	SW-07
		Sample Name							
Cas Rn	Chemical Name	Analytic Method	Unit \\\	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/17/2004
(Group Code)	(Group Description)								
2-SV-2-W	SVOCs - Page 2								
51-28-5	2,4-Dinitrophenol	TCL-BNA-W	ug/L	25 U	25 UJ	25 U	25 UJ	25 U	25 UJ
100-02-7	4-Nitrophenol	TCL-BNA-W	ug/L	25 U	25 UJ	25 U	25 UJ	25 U	25 UJ
132-64-9	Dibenzofuran	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-66-2	Diethylphthalate	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
86-73-7	Fluorene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
100-01-6	4-Nitroaniline	TCL-BNA-W	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-W	ug/L	25 U	25 U	25 U	25 U	25 U	25 U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
118-74-1	Hexachlorobenzene	TCL-BNA-W	ug/L	10 U	10 UJ	10 U	10 UJ	10 U	10 U
1912-24-9	Atrazine	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
87-86-5	Pentachlorophenol	TCL-BNA-W	ug/L	25 U	25 UJ	25 U	25 UJ	25 U	25 U
85-01-8	Phenanthrene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
120-12-7	Anthracene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
86-74-8	Carbazole	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
84-74-2	Di-n-butylphthalate	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
206-44-0	Fluoranthene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
129-00-0	Pyrene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
85-68-7	Butylbenzylphthalate	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
56-55-3	Benzo(a)anthracene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
218-01-9	Chrysene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
117-84-0	Di-n-octylphthalate	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
205-99-2	Benzo(b)fluoranthene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
207-08-9	Benzo(k)fluoranthene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
50-32-8	Benzo(a)pyrene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-W	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

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			Sample Code	SW-08		SW-09		SW-10		SW-11		SW-12		SW-13		SW-14	
			Sample Name	8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/18/2004		8/18/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\														
(Group Code)	(Group Description)																
2-SV-2-W	SVOCs - Page 2																
51-28-5	2,4-Dinitrophenol	TCL-BNA-W	ug/L	25	UJ	25	U	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
100-02-7	4-Nitrophenol	TCL-BNA-W	ug/L	25	UJ	25	U	25	U	25	U	25	U	25	U	25	U
132-64-9	Dibenzofuran	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
84-66-2	Diethylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
86-73-7	Fluorene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
100-01-6	4-Nitroaniline	TCL-BNA-W	ug/L	25	U	25	U	25	U	25	U	25	U	25	U	25	U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-W	ug/L	25	U	25	U	25	U	25	U	25	U	25	U	25	U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1912-24-9	Atrazine	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	TCL-BNA-W	ug/L	25	U	25	U	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
85-01-8	Phenanthrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
120-12-7	Anthracene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
86-74-8	Carbazole	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
84-74-2	Di-n-butylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
206-44-0	Fluoranthene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
129-00-0	Pyrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
85-68-7	Butylbenzylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
56-55-3	Benzo(a)anthracene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
218-01-9	Chrysene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-W	ug/L	1	J	1	J	10	U	10	U	10	U	10	U	10	U
117-84-0	Di-n-octylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
205-99-2	Benzo(b)fluoranthene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
207-08-9	Benzo(k)fluoranthene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
50-32-8	Benzo(a)pyrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U

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			Sample Code	SW-15		SW-16		SW-16-Dup		SW-17		SW-18		SW-19		SW-20	
			Sample Name	8/18/2004		8/18/2004		SW-21 8/18/2004		8/18/2004		8/18/2004		8/19/2004		8/19/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\														
(Group Code)	(Group Description)																
2-SV-2-W	SVOCs - Page 2																
51-28-5	2,4-Dinitrophenol	TCL-BNA-W	ug/L	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
100-02-7	4-Nitrophenol	TCL-BNA-W	ug/L	25	U	25	U	25	U	25	U	25	U	25	UJ	25	UJ
132-64-9	Dibenzofuran	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
121-14-2	2,4-Dinitrotoluene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
84-66-2	Diethylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
86-73-7	Fluorene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
7005-72-3	4-Chlorophenyl-phenylether	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
100-01-6	4-Nitroaniline	TCL-BNA-W	ug/L	25	U	25	U	25	U	25	U	25	U	25	U	25	U
534-52-1	4,6-Dinitro-2-methylphenol	TCL-BNA-W	ug/L	25	U	25	U	25	U	25	U	25	U	25	U	25	U
86-30-6	n-Nitrosodiphenylamine	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
101-55-3	4-Bromophenyl-phenylether	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
118-74-1	Hexachlorobenzene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1912-24-9	Atrazine	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
87-86-5	Pentachlorophenol	TCL-BNA-W	ug/L	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
85-01-8	Phenanthrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
120-12-7	Anthracene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
86-74-8	Carbazole	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
84-74-2	Di-n-butylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	UJ	10	UJ
206-44-0	Fluoranthene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
129-00-0	Pyrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
85-68-7	Butylbenzylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
91-94-1	3,3'-Dichlorobenzidine	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
56-55-3	Benzo(a)anthracene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
218-01-9	Chrysene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
117-84-0	Di-n-octylphthalate	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
205-99-2	Benzo(b)fluoranthene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
207-08-9	Benzo(k)fluoranthene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
50-32-8	Benzo(a)pyrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
53-70-3	Dibenz(a,h)anthracene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U
191-24-2	Benzo(g,h,i)perylene	TCL-BNA-W	ug/L	10	U	10	U	10	U	10	U	10	U	10	U	10	U

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Consolidated Iron
Surface Water Samples
Pesticides/PCBs

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Cas Rn	Chemical Name	Analytic Method	Sample Code Sample Name Sample Date Unit \\\	SW-16-Dup SW-21 8/18/2004		SW-17 8/18/2004		SW-18 8/18/2004		SW-19 8/19/2004		SW-20 8/19/2004	
(Group Code)	(Group Description)												
3-PEST-W	Pesticides/PCBs												
319-84-6	alpha-BHC	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-85-7	beta-BHC	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
319-86-8	delta-BHC	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
58-89-9	gamma-BHC (Lindane)	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
76-44-8	Heptachlor	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
309-00-2	Aldrin	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
1024-57-3	Heptachlor epoxide	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
959-98-8	Endosulfan I	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
60-57-1	Dieldrin	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-55-9	4,4'-DDE	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-20-8	Endrin	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
33213-65-9	Endosulfan II	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-54-8	4,4'-DDD	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
1031-07-8	Endosulfan sulfate	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
50-29-3	4,4'-DDT	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
72-43-5	Methoxychlor	TCL-P/P-W	ug/L	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
53494-70-5	Endrin ketone	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
7421-93-4	Endrin aldehyde	TCL-P/P-W	ug/L	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
5103-71-9	alpha-Chlordane	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
5103-74-2	gamma-Chlordane	TCL-P/P-W	ug/L	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
8001-35-2	Toxaphene	TCL-P/P-W	ug/L	5	U	5	U	5	U	5	U	5	U
12674-11-2	Aroclor-1016	TCL-P/P-W	ug/L	1	U	1	U	1	U	1	U	1	U
11104-28-2	Aroclor-1221	TCL-P/P-W	ug/L	2	U	2	U	2	U	2	U	2	U
11141-16-5	Aroclor-1232	TCL-P/P-W	ug/L	1	U	1	U	1	U	1	U	1	U
53469-21-9	Aroclor-1242	TCL-P/P-W	ug/L	1	U	1	U	1	U	1	U	1	U
12672-29-6	Aroclor-1248	TCL-P/P-W	ug/L	1	U	1	U	1	U	1	U	1	U
11097-69-1	Aroclor-1254	TCL-P/P-W	ug/L	1	U	1	U	1	U	1	U	1	U
11096-82-5	Aroclor-1260	TCL-P/P-W	ug/L	1	U	1	U	1	U	1	U	1	U

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Surface Water Samples
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		Sample Code		SW-01		SW-02		SW-03		SW-04		SW-05		SW-06		SW-07		SW-08	
		Sample Name		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/16/2004		8/17/2004		8/17/2004		8/17/2004	
Cas Rn	Chemical Name	Analytic Method	Unit \\\																
(Group Code)	(Group Description)																		
4-CLP-met-w	Inorganic Analytes																		
7429-90-5	Aluminum	TAL-METS-W	ug/l	260		420		290		200 U		200 U		230		280		480	
7440-36-0	Antimony	TAL-METS-W	ug/l	60 U		60 U		60 U		60 U		60 U		60 U		60 U		60 U	
7440-38-2	Arsenic	TAL-METS-W	ug/l	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
7440-39-3	Barium	TAL-METS-W	ug/l	200 U		200 U		200 U		200 U		200 U		200 U		200 U		200 U	
7440-41-7	Beryllium	TAL-METS-W	ug/l	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
7440-43-9	Cadmium	TAL-METS-W	ug/l	5 U		5 U		5 U		5 U		5 U		5 U		5 U		5 U	
7440-70-2	Calcium	TAL-METS-W	ug/l	28000		28000		28000		29000		28000		28000		28000		28000	
7440-47-3	Chromium	TAL-METS-W	ug/l	10 U		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
7440-48-4	Cobalt	TAL-METS-W	ug/l	50 U		50 U		50 U		50 U		50 U		50 U		50 U		50 U	
7440-50-8	Copper	TAL-METS-W	ug/l	25 U		25 U		25 U		25 U		25 U		25 U		25 U		25 U	
7439-89-6	Iron	TAL-METS-W	ug/l	350		520		370		230		170		290		340		440	
7439-92-1	Lead	TAL-METS-W	ug/l	10 U		10 U		10 U		16		10 U		10 U		10 U		10 U	
7439-95-4	Magnesium	TAL-METS-W	ug/l	5300		5400		5300		5400		5300		5100		5200		5800	
7439-96-5	Manganese	TAL-METS-W	ug/l	36		55		48		29		32		28		30		31	
7439-97-6	Mercury	TAL-METS-W	ug/l	0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U	
7440-02-0	Nickel	TAL-METS-W	ug/l	40 U		40 U		40 U		40 U		40 U		40 U		40 U		40 U	
7440-09-7	Potassium	TAL-METS-W	ug/l	5000 U		5000 U		5000 U		5000 U		5000 U		5000 U		5000 U		5000 U	
7782-49-2	Selenium	TAL-METS-W	ug/l	35 U		35 U		35 U		35 U		35 U		35 U		35 U		35 U	
7440-22-4	Silver	TAL-METS-W	ug/l	10 UJ		10 U		10 U		10 U		10 U		10 U		10 U		10 U	
7440-23-5	Sodium	TAL-METS-W	ug/l	19000		20000		19000		20000		19000		19000		20000		20000	
7440-28-0	Thallium	TAL-METS-W	ug/l	25 U		25 U		25 U		25 U		25 U		25 U		25 U		25 U	
7440-62-2	Vanadium	TAL-METS-W	ug/l	50 U		50 U		50 U		50 U		50 U		50 U		50 U		50 U	
7440-66-6	Zinc	TAL-METS-W	ug/l	60 U		60 U		60 U		60 U		60 U		60 U		60 U		60 U	
57-12-5	Cyanide	TAL-CN-W	ug/l	2.1 J		3.9 J		10 U		3.5 J		10 U		3.2 J		10 U		10 U	

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		Sample Code	SW-09	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16
		Sample Name								
		Sample Date	8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/18/2004	8/18/2004	8/18/2004	8/18/2004
Cas Rn	Chemical Name	Analytic Method Unit \\\								
(Group Code)	(Group Description)									
4-CLP-met-w	Inorganic Analytes									
7429-90-5	Aluminum	TAL-METS-W ug/l	260	410	290	200	350	460	610	390
7440-36-0	Antimony	TAL-METS-W ug/l	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
7440-38-2	Arsenic	TAL-METS-W ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
7440-39-3	Barium	TAL-METS-W ug/l	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
7440-41-7	Beryllium	TAL-METS-W ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
7440-43-9	Cadmium	TAL-METS-W ug/l	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
7440-70-2	Calcium	TAL-METS-W ug/l	28000	28000	29000	28000	28000	28000	28000	28000
7440-47-3	Chromium	TAL-METS-W ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
7440-48-4	Cobalt	TAL-METS-W ug/l	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
7440-50-8	Copper	TAL-METS-W ug/l	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
7439-89-6	Iron	TAL-METS-W ug/l	320	470	360	260	440	600	740	500
7439-92-1	Lead	TAL-METS-W ug/l	10 U	10 U	10 U	12	10 U	10	10 U	10 U
7439-95-4	Magnesium	TAL-METS-W ug/l	5300	5400	5400	5300	5400	5400	5500	5400
7439-96-5	Manganese	TAL-METS-W ug/l	30	45	43	39	41	49	56	52
7439-97-6	Mercury	TAL-METS-W ug/l	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
7440-02-0	Nickel	TAL-METS-W ug/l	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
7440-09-7	Potassium	TAL-METS-W ug/l	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U
7782-49-2	Selenium	TAL-METS-W ug/l	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U
7440-22-4	Silver	TAL-METS-W ug/l	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
7440-23-5	Sodium	TAL-METS-W ug/l	20000	650000	21000	20000	20000	20000	20000	20000
7440-28-0	Thallium	TAL-METS-W ug/l	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
7440-62-2	Vanadium	TAL-METS-W ug/l	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
7440-66-6	Zinc	TAL-METS-W ug/l	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
57-12-5	Cyanide	TAL-CN-W ug/l	10 U	10.9	10 U	10 U	10 U	10 U	10 U	2 J

Consolidated Iron
Surface Water Samples
Inorganic Analytes

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		Sample Code		SW-16-Dup	SW-17	SW-18	SW-19	SW-20
		Sample Name		SW-21				
		Sample Date		8/18/2004	8/18/2004	8/18/2004	8/19/2004	8/19/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\					
(Group Code)	(Group Description)							
4-CLP-met-w	Inorganic Analytes							
7429-90-5	Aluminum	TAL-METS-W	ug/l	430	320	320	470	440
7440-36-0	Antimony	TAL-METS-W	ug/l	60 U	60 U	60 U	60 U	60 U
7440-38-2	Arsenic	TAL-METS-W	ug/l	10 U	10 U	10 U	10 U	10 U
7440-39-3	Barium	TAL-METS-W	ug/l	200 U	200 U	200 U	200 U	200 U
7440-41-7	Beryllium	TAL-METS-W	ug/l	5 U	5 U	5 U	5 U	5 U
7440-43-9	Cadmium	TAL-METS-W	ug/l	5 U	5 U	5 U	5 U	5 U
7440-70-2	Calcium	TAL-METS-W	ug/l	28000	28000	28000	29000	28000
7440-47-3	Chromium	TAL-METS-W	ug/l	10 U	10 U	10 U	10 U	10 U
7440-48-4	Cobalt	TAL-METS-W	ug/l	50 U	50 U	50 U	50 U	50 U
7440-50-8	Copper	TAL-METS-W	ug/l	25 U	25 U	25 U	25 U	25 U
7439-89-6	Iron	TAL-METS-W	ug/l	520	490	430	600	520
7439-92-1	Lead	TAL-METS-W	ug/l	10 U	10 U	10 U	10 U	10 U
7439-95-4	Magnesium	TAL-METS-W	ug/l	5400	5300	5400	5500	5400
7439-96-5	Manganese	TAL-METS-W	ug/l	51	46	43	60	48
7439-97-6	Mercury	TAL-METS-W	ug/l	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
7440-02-0	Nickel	TAL-METS-W	ug/l	40 U	40 U	40 U	40 U	40 U
7440-09-7	Potassium	TAL-METS-W	ug/l	5000 U	5000 U	5000 U	5000 U	5000 U
7782-49-2	Selenium	TAL-METS-W	ug/l	35 U	35 U	35 U	35 U	35 U
7440-22-4	Silver	TAL-METS-W	ug/l	10 U	10 U	10 U	10 U	10 U
7440-23-5	Sodium	TAL-METS-W	ug/l	20000	20000	21000	20000	20000
7440-28-0	Thallium	TAL-METS-W	ug/l	25 U	25 U	25 U	25 U	25 U
7440-62-2	Vanadium	TAL-METS-W	ug/l	50 U	50 U	50 U	50 U	50 U
7440-66-6	Zinc	TAL-METS-W	ug/l	60 U	60 U	60 U	60 U	60 U
57-12-5	Cyanide	TAL-CN-W	ug/l	10 U	2.2 J	3.2 J	10 U	10 U

Consolidated Iron
Surface Water Samples
Wet Chemistry

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				Sample Code	SW-01	SW-02	SW-03	SW-04	SW-05	SW-06	SW-07	SW-08
				Sample Name								
				Sample Date	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/16/2004	8/17/2004	8/17/2004	8/17/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\									
(Group Code)	(Group Description)											
Wetchem-W	Created by SUPER on 1/4/2005											
CACOA-H	Hardness As CaCO3	E130.2	mg/l		110	130	110	110	100	120	110	110
SO4	Sulfate	E375.4	mg/l		26	26	28	26	24	12	11	12
DOC	Dissolved Organic Carbon	SW9060D	mg/l		4.5	4.1	4.1	5	3.7	3.8	3.8	3.9
TDS	Total Dissolved Solids	MCAWW160-1	mg/l		140	120	82	130	150	140	6	75
TSS	Total Suspended Solids	MCAWW160-2	mg/l		11	12	9	8	6	9	74	10

Consolidated Iron
Surface Water Samples
Wet Chemistry

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		Sample Code		SW-09	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16
		Sample Name									
		Sample Date		8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/18/2004	8/18/2004	8/18/2004	8/18/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\								
(Group Code)	(Group Description)										
Wetchem-W	Created by SUPER on 1/4/2005										
CACOA-H	Hardness As CaCO3	E130.2	mg/l	140	110	110	120	120	120	120	120
SO4	Sulfate	E375.4	mg/l	11	13	13	12	13	13	13	13
DOC	Dissolved Organic Carbon	SW9060D	mg/l	3.8	3.8	3.4	3.7	4.4	4.3	4.2	4.3
TDS	Total Dissolved Solids	MCAWW160-1	mg/l	86	180	120	110	160	170	150	170
TSS	Total Suspended Solids	MCAWW160-2	mg/l	6	11	9	7	8	9	16	16

Consolidated Iron
Surface Water Samples
Wet Chemistry

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		Sample Code		SW-16-Dup	SW-17	SW-18	SW-19	SW-20
		Sample Name		SW-21				
		Sample Date		8/18/2004	8/18/2004	8/18/2004	8/19/2004	8/19/2004
Cas Rn	Chemical Name	Analytic Method	Unit \\\					
(Group Code)	(Group Description)							
Wetchem-W	Created by SUPER on 1/4/2005							
CACOA-H	Hardness As CaCO3	E130.2	mg/l	120	130	130	120	120
SO4	Sulfate	E375.4	mg/l	14	13	13	12	13
DOC	Dissolved Organic Carbon	SW9060D	mg/l	4.2	4.3	4.4	4.2	4.2
TDS	Total Dissolved Solids	MCAWW160-1	mg/l	170	160	160	160	160
TSS	Total Suspended Solids	MCAWW160-2	mg/l	10	8	8.3	17	9



125 Maiden Lane, 5th Floor
New York, NY 10038
(212) 785-9123