FINAL
Volume II of VI

ECOLOGICAL ASSESSMENT REPORT, FOR OCTOBER, 1995 ECOLOGICAL ASSESSMENT OF SOLDIER CREEK TINKER AFB OKLAHOMA CITY, OKLAHOMA

CONTRACT NO. F34650-93-D-0109
ORDER 5005

Prepared for
Department of the Air Force
Tinker AFB
Oklahoma City, Oklahoma

April 1997

APPENDIX A

STANDARD OPERATING PROCEDURES

TABLE OF CONTENTS

PHYSICAL SAMPLING SOPs

MEASUREMENT OF SPECIFIC CONDUCTANCE AND TEMPERATURE

MEASUREMENT OF pH

MEASUREMENT AND OPERATION OF THE PHOTOIONIZATION DETECTOR

OPERATION AND CALIBRATION OF THE DISSOLVED OXYGEN METER

ECOLOGICAL SOPs

SOP-A1 SAMPLING/MEASUREMENT OF VASCULAR AQUATIC PLANTS

SOP-A2 TERRESTRIAL VEGETATIVE COVER-TYPE MAPPING

SOP-A3 SAMPLING AND EVALUATION OF AQUATIC MACROINVERTEBRATES

SOP-A4 ASSESSMENT OF FISH COMMUNITIES AND POPULATIONS

SOP-A5 SURVEYS FOR TERRESTRIAL/AMPHIBIOUS VERTEBRATES

SOP-A6 BIOLOGICAL SAMPLING FOR ANALYSES OF CONTAMINANT RESIDUES

SOP-A7 STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SEDIMENTS TO *HYALELLA AZTECA*

SOP-A8 STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *CERIODAPHNIA DUBIA*

SOP-A9 STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SEDIMENTS TO *LUMBRICULUS VARIEGATUS*

SOP-A10 STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SEDIMENTS TO *PIMEPHALES PROMELAS*

STANDARD OPERATING PROCEDURES AND INSTRUMENT CALIBRATION

MEASUREMENT OF SPECIFIC CONDUCTANCE AND TEMPERATURE

This procedure describes the method for determining the conductivity and temperature of unknown solutions and groundwater using a conductivity meter. Generally, meters have a readability as low as 2.5 umhos/cm, and a range between 0 to 50,000 umhos/cm. The following procedures are applicable to most conductivity meters. However, field personnel will consult the manufacturers instruction manual for the specific instrument they will use.

Setup

1.Adjust meter zero (if necessary) by turning the zero adjusting knob screw on the meter face so that the meter needle coincides with the zero on the conductivity scale.

2.Turn the MODE control to REDLINE and adjust the REDLINE control so the meter needle lines up with the redline on the meter face. If this cannot be accomplished, replace the batteries.

3.Plug the probe into the probe jack on the side of the instrument.

Conductivity Measurement

1.Perform calibration check at beginning and end of each day of sampling.

2.Put the probe in the solution to be measured so that there are no obstructions near the probe. Also, be certain the probe is immersed so that the vent hole is submerged.

3.Switch the MODE control to the x100 scale. If the reading is below 50 on the 0-500 range, switch to the x10 scale. If the reading is still below 50, switch to the x1 scale. Read the meter scale and multiply the reading appropriately to get the conductivity in umhos/cm. Record value in field notebook and/or on appropriate form.

4.When measuring on the x100 and x10 scales, depress the CELL TEST button. The meter reading should fall less than 2%; if greater, the probe is fouled. Clean the probe and re-measure. The CELL TEST does not function on the x1 scale.

5.Rotate switch to OFF position. Rinse the probe with deionized (or distilled) water before reinserting it in the next solution.

Temperature Measurement

1. Repeat setup steps 1-3, if necessary.

2. Set MODE control to TEMPERATURE.

3. Place probe into solution to be measured. Allow time for the probe temperature to come to equilibrium with that of the water before reading.

4. Read the temperature on the bottom scale in degrees celsius.

5. Record value in field notebook and/or on appropriate form.

Maintenance

1. When the cell test indicates low reading, the probable cause is dirty electrodes. For normal cleaning, soak the probe for five minutes with a locally available bathroom tile cleaning preparation. For stronger cleaning, a five minute soak in a solution made of 10 parts distilled water, 10 parts isopropyl alcohol and one part HCl can be used. Rinse the probe with distilled water after cleaning and before storage.

2. Probes are best stored in deionized (or distilled) water. If the probe has been stored dry, soak with deionized (or distilled) water before use.

Calibration Check

Conductivity meters are calibrated to absolute accuracy using a standard solution of 0.001 Molar KCl. Standard solutions are available from vendors and can be substituted into the following method if available. To prepare a standard solution:

1. In a one liter flask, dissolve 0.745 grams of pure dry KCl until the solution is one kilogram in weight.

2. Use table below and the temperature of the water to determine the conductivity of the solution just prepared. Note: This table shows conductivity as if the distilled water was nonconductive. Since even high purity distilled water is slightly conductive, the measured conductivity will be higher by an amount equal to the water's conductivity.

Calibration check with 0.01 Molar KCl solution.

Temperature °C	Conductivity umhos/cm
15	1141.5
16	1167.5
17	1193.6
18	1219.9
19	1246.4
20	1273.0
21	1299.7
22	1326.6
23	1353.6
24	1380.8
25	1408.1
26	1436.5
27	1463.2
28	1490.9
29	1518.7
30	1546.7

3. Place probe in solution and measure conductivity. The conductivity of the solution plus the conductivity of the distilled water should not vary from the meter reading by ± 1.5%. If the reading is greater than 1.5%, clean the probe and then recheck the conductivity. If after cleaning it is not possible to measure the conductivity of the calibration solutions within ± 1.5%, the probe and instrument should be returned to the manufacturer for calibration and maintenance.

4. When using a vendor standard solutions place the probe in the solution and measure conductivity and temperature. Correct conductivity measurement to 25°C with the following formula:

$$C_{25} = Co/(1+0.0191\ (t-25)$$

where: C_{25} = Conductivity at 25°
C_o = Observed conductivity
t = Sample temperature in °C

Compare C_{25} of the sample with the C_{25} of the standard solution. Observe any difference and record results in the field logbook and/or appropriate form.

MEASUREMENT OF pH

Field pH meters are used to measure the pH of natural waters. A field pH meter should have a shock resistant case, be water proof, and there it should have the capacity to be calibrated to standard pH buffered solutions. The following procedures can be applied to most field pH meters. Field personnel will be familiar with the operation of the specific pH meter that they will use. A manufacturer's operator's manual will be provided with every instrument and calibration, operation, and maintenance procedures found in the manual will be followed.

Setup and Meter Check-Out

All field pH meters run on batteries; new batteries should be installed at the beginning of each field session and replacement batteries should always be on hand. The meter case should be inspected for damage which might comprise the integrity of the meter. The pH electrode should also be inspected for cracks, damaged tip, and electrolyte solution (AgCl). If the electrode is damaged, a replacement should be found; if the electrolyte solution is low, it should be emptied and refilled.

Calibration and Measurement

There are two types of pH meters; one meter type has Automatic Temperature Compensation (ATC), and the other type of meter needs to have its readings adjusted for temperature. For the latter type of meter, the best method of use is to calibrate the meter with pH buffered standard solutions at the same temperature as the sample water to be measured. This adjusts the meter to the correct sample temperature and gives readings that are temperature compensated. The best method of getting the standard solutions to same temperature as the water samples is to place the bottles containing the standard solutions in a large container and allow the water to be sampled to run over it until the water and standards are at the same temperature. The temperature can be measured with a standard lab thermometer. When the pH buffered standard solutions are at the same temperature as the water samples, the two buffer calibration or the single buffer calibration specified in the operator's manual will be followed.

CALIBRATION AND OPERATION OF THE PHOTOIONIZATION DETECTOR

A Photoionization Detector (PID) operates on the principle of photoionization. When a photon of ultraviolet (UV) radiation strikes a chemical compound, it ionizes a molecule of the compound if the radiation is equal to or greater than the ionization potential (IP) of the compound. Because ions are capable of conducting an electrical current, an electron flow can be generated within the instrument.

In a PID, an electrical pump, or fan, moves the gas being sampled past a UV source. The sample is ionized and ion pair production occurs for each molecule ionized. The free electrons produce a current directly proportional to the number of ions produced. The current is amplified, detected, and displayed on a meter. Chemical species having IPs less than or equal to the lamp rating will generate an appropriate instrument response. Chemical species that have IPs greater than the lamp rating will display a poor instrument response or no response at all.

The contaminants of concern dictate which lamp should be used. Employing an 11.7 electron volt (eV) rated lamp would provide a relatively wide range of detectable species; however, that lamp requires frequent replacement. More commonly, a 10.2 eV lamp is used. A 10.2 eV lamp offers relatively high radiation levels without frequent lamp replacement and will detect many species, with the notable exception of chlorinated aliphatics.

Keep in mind that the PID is typically calibrated to measure the concentration of a known calibration gas. The instrument can detect other volatile organic compounds, but the concentration will not be accurate. Therefore, these instruments are typically used to screen samples or to monitor the environment for health and safety purposes. They will not be used for the purpose of obtaining analytical chemistry data.

The typical PID consists of a probe, readout assembly, and a battery charger. The probe contains the sensing and amplifying circuitry, the readout assembly contains the meter controls, and the power supply is a rechargeable battery. PIDs must be used, calibrated, and maintained according to the manufacturer's instructions for each specific instrument.

The following equipment and materials are needed for the calibration and operation of the PID:

- Photoionization Detector
- Probe assembly with 10.2 eV (or other appropriate lamp)
- Battery charger adapter cord
- Calibration gas with control valve and tubing
- Periodic check source (marking pen)
- Field notebook
- Calibration/Survey log forms (see example in Attachment A)
- Appropriate health and safety equipment

Personnel overseeing the calibration and operation of the PID should have an appropriate amount of field experience and/or on-the-job training under the supervision of another qualified person. The personnel will be specifically trained to calibrate, set up, operate, and maintain the PID. The personnel will also be trained in field data collection and documentation. Personnel using the PID to measure volatile organic compounds are also required to have the appropriate health and safety training as specified in the site-specific Health and Safety Plan.

The following procedure will be used to calibrate and operate the PID:

1. The instrument user is responsible for properly calibrating and operating the instrument. When the instrument requires maintenance, this function should be conducted only by a qualified individual.

2. The PID will be calibrated prior to each use, or at least once per day when in use. Refer to the manufacturer's calibration instructions for the specific instrument in use. General calibration procedures are as follows:

    - Check the function switch on the control panel to make sure it is in the OFF position. Attach the probe to the readout unit. Make sure the probe assembly is properly secured to the readout unit.
    - Turn the function switch to the BATTERY CHECK position. Check that the indicator reads within the charged range on the meter. If the indicator is near or below the lower end of the charged range, the battery must be

charged prior before using.

- Zero the instrument by turning the function switch to standby and turning the adjusting knob until the meter reads zero. Wait 15 to 20 seconds to confirm that the zero adjustment is stable. If it is not, then readjust.
- Set the function switch to the desired part per million (PPM) range. A violet glow from the UV lamp source should be observable at the sample inlet of the probe/sensor unit. (Do not look directly at the glow, as eye injury can result.)
- Listen for the fan/pump operation to verify function.
- Attach calibration gas to probe assembly using the valve and tubing. Open the valve slowly.
- The meter reading should correspond to the known PPM of the calibration gas. If it does not, adjust the span control until it does. If it cannot check be adjusted, check the probe assembly for blockage, particle filters, UV source lamp, and ionization chamber in accordance with the manufacturer's maintenance procedures. If the instrument still cannot be properly aligned, return it to the appropriate place for maintenance.
- Document all calibration data in field log book and on calibration log form.

3. Personnel operating the PID in the field will check the battery whenever the unit has not been used for an hour or more. Periodic operation checks will be made by placing the probe near the check source (marking pen) and checking the readout meter for movement. The readout meter should rise rapidly on a sensitive scale. If it does not, attempt the procedure again on a more sensitive scale. If the unit still does not respond, return it to the calibration area for checking and maintenance.

4. Personnel may perform area or surface surveys by slowly moving the probe assembly (sample inlet) over the area or surface to be surveyed. The probe should remain within 1 to 2 inches of the area's surface. Care should be exercised in not letting the probe touch the surface being surveyed as particles or liquid will be drawn in and may clog the instrument or skew the results. The area or surface to be surveyed may be divided in sections or a grid in order to facilitate

documentation of results.

5. Air quality or general environmental sampling for health and safety requirements may be performed using the PID by moving the probe slowly around the area of concern. This sampling can be done for volatile organic compounds (VOCs) in the ambient air or for releases due to intrusive activities. The PID can be used to survey the air in the worker's breathing zone for VOCs or can be set up down wind to monitor general VOC levels. The PID can be set to alarm at the action level or record the highest reading taken.

6. Personnel may use the PID to characterize individual samples for VOCs. This will be accomplished by inserting the probe (sample inlet) into the headspace of the sample container. Care will be exercised not to touch the sample so as not to draw particles or liquid into the PID. The results can be used to characterize the sample as containing VOCs or not. This method will not be used to provide analytical chemistry results due to the inherent inaccuracy of the PID.

When using a PID for health and safety monitoring, the instrument will be used at regular intervals. The schedule for which the readings will be recorded will depend on a variety of factors including, but not limited to, the activity being performed, the levels being measured, and the stability of the readings. Readings will be recorded at least every 20 minutes. Measurements will also be recorded any time field activities change, or, if readings begin to rise, they will be recorded more frequently until they are stabilized. When levels approach action levels as specified in the Health and Safety Plan, measurements may also be recorded more frequently. Furthermore, these frequencies can be changed at the discretion of the Site Health and Safety Coordinator.

OPERATION AND CALIBRATION OF THE DISSOLVED OXYGEN METER

Field dissolved oxygen meters are intended for dissolved oxygen and temperature measurement in water and wastewater applications. Dissolved oxygen is generally indicated in mg/L on a 0-15 mg/L scale. Temperature is indicated in °C on a -5° to 45° C scale. Field personnel will be familiar with the operation of the specific dissolved oxygen meter that they will use. A manufacturer's operator's manual will be provided with every instrument and calibration, operation, and maintenance procedures found in the manual will be followed. The following procedures provide general guidelines for using a YSI model 51B Dissolved Oxygen Meter.

Preparing the Instrument

It is important that the meter is placed in the intended operating position (vertical, tilted or on its back), before preparing it for use or calibration. Readjustment may be necessary when the instrument operating position is changed. Prepare the probe as described in the probe instructions in the manufacturer's operator's manual for each probe, then proceed as follows:

1. With the switch set to OFF, adjust the meter pointer to zero with the screw in the center of the meter panel. Do not force this adjustment, or you may damage the meter.

2. Switch to ZERO and adjust to zero with ZERO knob.

3. Switch to FULL SCALE and adjust the FULL SCALE knob until the meter needle aligns with the 15 mark on the mg/L scale.

4. Attach the prepared probe to the probe connector of the instrument and adjust the retaining ring finger tight.

5. Before calibrating, allow 15 minutes for optimum probe stabilization and polarization. Allow 15 minutes for repolarization whenever the instrument has been off or the probe has been disconnected.

Air Calibration

Calibration is accomplished by exposing the probe to a known oxygen concentration, such as water-saturated air (%), or water of a known oxygen content (mg/l) and then adjusting the calibration controls so the meter indicates a reading matching the oxygen concentration of the known sample. Air calibration will be performed as described in the manufacturer's operator's manual.

Measurement

With the instrument prepared for use and the probe calibrated, place the probe in the sample to be measured and stir. Allow sufficient time for the probe to stabilize to sample temperature and dissolved oxygen level. Switch to TEMP and read the temperature from the lower meter scale. Set the O_2 SOLUBILITY FACTOR dial to the observed temperature, taking care to use the appropriate salinity index (See Salinity Correction in the manufacturer's operator's manual). Switch to READ O_2 and read the dissolved oxygen value in mg/L directly from the meter.

SOP-A1
SAMPLING/MEASUREMENT OF VASCULAR AQUATIC PLANTS

Purpose and Background

This procedure describes the methods for evaluating the occurrence, distribution, and densities of vascular aquatic plants and to evaluate the possibility of occurrence of federal and/or state rare, threatened, and endangered aquatic plant species within the Tinker study area boundaries. For purposes of this procedure aquatic vascular plants are defined as any herbaceous vascular plants with roots in direct contact with stream sediments or surface water. Riparian terrestrial vegetation is addressed in another SOP. In terms of growth habit, three categories of vascular plants may be encountered:

- floating plants such as duckweed, watermeal, and water hyacinth which have true leaves and roots and typically float on the surface
- submerged plants such as eelgrass, water milfoil, pondweeds, etc. which are anchored to the substrate and may be entirely submersed
- emersed plants with floating leaves such as water lilies and shields and plants with upright shoots or leaves such as cattails, sedges, grasses, etc.

In small streams, hydrophytic vegetation is typically limited to a few species; often such plants may be virtually absent or present only on the riffles and margins of the streams. A preliminary site reconnaissance indicates that aquatic vascular plants occur in only a few of the established study sections, and where present they tend to form more or less continuous, seemingly homogeneous, stands.

Measurements and Sampling

Each stream section is to be thoroughly inspected to determine if vascular aquatic plants are present. The presence of isolated individual plants or small groups of specimens will be noted on a diagram of the stream section. Where larger assemblages of aquatic vascular plants occur, counts and measurements are to be performed and documented as described below in up to three quadrats or plots.

Where aquatic vascular plants are sufficiently abundant, 0.5-meter square quadrat, simple random, samples will be taken. The sample will consist of counting the total number of plants in each quadrat by species. Three quadrat samples are to be taken in each stand or "bed" of aquatic vegetation. Total area of hydrophytes will be estimated in the field and recorded by photography and on maps. If plants cannot be identified in the field, voucher specimens will be taken for submission to appropriate experts for verification. Small delicate species may be preserved in 4 percent buffered formalin solution (Weber, 1973). Ecological assessment of macrophyton (hydrophytes) is discussed in Dennis and Isom (1984), especially the article by Raschke and

Rusanowski on field collections.

Data Analysis and Interpretation

From the standardized plot counts, densities of aquatic vascular plants will be estimated by species. These data will be used, along with the estimates of stand size, to develop estimates of the total area colonized by aquatic vascular plants by study section.

Comparisons among study sections, or between Soldier Creek branches and the reference stream, will of necessity be mainly qualitative. Many of the study sections within West and East Soldier Creek are defined on the basis of physical habitat characteristics, thus establishing an *a priori* assumption that organisms dependent upon such physical factors are unlikely to be similarly distributed.

Equipment and Supplies

measuring tape
hand magnifying lens
field notebook
field reference guide(s)
pruning implements
surveyor's flagging
plant press
containers (plastic bags, jars)
camera/film
digging implements (trowel, spoon)

References

Dennis, W.M. and B. G. Isom. 1984. Ecological Assessment of Macrophyton: Collection, Use, and Meaning of Data. ASTM STP 843. 122 pages.

Nelson, E.N. and R.W. Couch. 1985. Aquatic Plants of Oklahoma. Published by the Authors.

Raschke, R.L. and P.C. Rusanowski. 1984. Aquatic Macrophyton Field Collection Methods and Laboratory Analyses. ASTM. STP 843. pp. 16-27.

Weber, C.I. 1973. Biological Field and Laboratory Methods for Measuring the Quality of Surface Waters and Effluents. Macrophyton Section. EPA-670/4-73-001. USEPA, Cincinnati, Ohio.

SOP-A2
TERRESTRIAL VEGETATIVE COVER-TYPE MAPPING

Purpose and Background

This procedure describes the methods for characterizing the composition and structure of vascular plant communities throughout a 50-foot wide band along each side of each section of the study streams within the Tinker study area boundaries. The basic objectives of characterizing these riparian vegetative communities are: (1) to evaluate the quality of habitat for higher vertebrates (e.g., birds, mammals) that might be sensitive to exposures to site-related contaminants; and (2) to evaluate the potential for occurrence of plants that may be of special concern due to their recognition by federal and/or state authorities as rare, threatened, or endangered.

The 50-foot width of the band along each side of each stream is an arbitrary dimension established to ensure that all, or a representative portion of, riparian terrestrial habitat is considered. Hence, 50 feet will be used as the diameter of standardized plots for characterization of cover types

Measurements and Sampling

Each stream section is to be thoroughly inspected to evaluate the occurrence and relative extent of major vegetative cover types (e.g., forest, thicket, shrub/scrub, open field). Within each section, dominant species in the overstory, understory, shrubs and vines, and herbaceous plants will be identified.

Plants are to identified to the level of species, to the extent possible, using locally relevant field guides and floral manuals. Voucher specimens should be collected for submission to appropriate botanical experts for verification of plant identities.

Data Analysis and Interpretation

Aerial photographs will be obtained to develop an areal "footprint" and baseline map of the area for comparisons with field data. A general cover type map will be prepared for each stream section.

Comparisons among study sections, or between Soldier Creek branches and the reference stream, will of necessity be mainly qualitative. Many of the study sections within West and East Soldier Creek are defined on the basis of physical habitat characteristics, thus establishing an *a priori* assumption that organisms dependent upon such physical factors are unlikely to be similarly distributed.

Equipment and Supplies

measuring tape
hand magnifying lens
field notebook
field reference guide(s)
digging implements (trowel, spoon)
pruning implements
surveyor's flagging
plant press
containers (plastic bags, jars)
camera/film

References

Great Plains Flora Association. 1986. Flora of the Great Plains. University Press of Kansas, Lawrence, KS.

Little, Elbert L. 1985. Forest Trees of Oklahoma. Oklahoma Forestry Division, State Department of Agriculture.

United States Environmental Protection Agency. 1989. Ecological Assessment of Hazardous Waste Sites: A Field and Laboratory Reference. EPA/600/3-89/013. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, Oregon

Warterfall, V.T. 1979. Key to the Flora of Oklahoma. Oklahoma State University Press, Stillwater, OK.

SOP-A3
SAMPLING AND EVALUATION OF AQUATIC MACROINVERTEBRATES

Purpose and Background

This procedure describes the methods for evaluating the occurrence, distribution, and densities of aquatic macroinvertebrates and to evaluate the possibility of occurrence of federal and/or state rare, threatened, and endangered aquatic invertebrate species within the Tinker study area boundaries. Quantitative estimations will emphasize macroinvertebrate benthic animals, or those residing in submerged sediments. The occurrence and distribution of other aquatic macroinvertebrates will be evaluated by means of qualitative methods and anecdotal observations obtained during other field activities (SOP-E1 and SOP-E4).

For purposes of this procedure, aquatic macroinvertebrates are defined as those invertebrate animals retained by 250 μm mesh sampling devices. The use of a U.S. Standard No. 60 (250μm) sieve is recommended instead of a U.S. No. 30 (595μm) to ensure an accurate and representative sampling of the benthic community. Several studies have shown that there are significant differences in numbers of individuals and taxa collected by small and large mesh sizes, with as many as 80% of the oligochaetes, nematodes (roundworms), and early instars of insects lost if a No. 30 sieve is used. The No. 30 sieve may be used in conjunction with (i.e., in front of) the finer sieve in both the field and laboratory for coarse screening/rinsing purposes. Any organisms retained by the No. 30 sieve will be added to the sample; only coarse debris will be discarded.

Each stream section will be thoroughly inspected to assess the availability and extent of depositional areas (i.e., places where the substrate is comprised substantially of actual sediments, as opposed to bedrock, concrete, or coarse materials such as concrete, rubble, gravel, or stones and other anthropogenically-derived debris). Once such natural depositional substrates are identified and mapped on a diagram of the section, a random location judged to be representative of the dominant type of sediment in the section will be established for quantitative sampling. The same bottom type should be sampled at each section.

Quantitative Sampling

Three (3) replicate samples will be collected with a petite Ponar grab sampler at each representative depositional location. The sampler will be deployed by hand either from the standing position if the water is shallow enough, or from a small boat if necessary. All efforts will be made to use this type of sampling in all sections for consistency and comparability. However, if suitable depositional habitat is not available, a standard kick net sampler with 250 μm mesh will be used to collect three samples at representative locations.

Each replicate sample will be washed through a 250 μm mesh sieve to remove excess detritus, and the remainder in the sieve placed into a resealable bag and preserved with a 10% buffered formalin solution containing Phloxine-B, a histological stain to facilitate sorting.

Qualitative Sampling

To supplement the quantitative assessment of macroinvertebrates, and to compare all the aquatic macroinvertebrates in the different habitats among sections, qualitative kick net samples will be taken, collecting from several different habitats, at each section. Each sample will be preserved as noted for quantitative samples. All samples will be shipped to the laboratory under chain-of-custody to the Woodward-Clyde Ecological Laboratory in Franklin, Tennessee.

Habitat Assessment

A habitat evaluation form will be completed for each sampling section, to assess the potential for a specific type of benthic community to exist at a given location. This form will be similar to that used by USEPA for rapid bioassessment. An evaluation of habitat quality is critical to assessment of ecological integrity. Using this form, the key parameters can be identified to provide a consistent assessment of habitat quality (EPA/444/4-89-001, 5-1). Parameters to be evaluated include the type of bottom substrate and available cover, embeddedness, flow, velocity estimation, channel alterations, bottom scouring and deposition, presence of pools and riffles, bank stability, bank vegetation, streamside cover, and percent canopy as a minimum.

Sorting

In the laboratory, each sample will be washed through a No. 60 sieve to remove excess formalin and detritus. Aliquots of the sample will be placed in a petri dish and examined using a stereomicroscope. The first 200 organisms from the quantitative samples will be removed and placed into vials of 70% ethanol by major groupings (e.g., nematodes, oligochaetes, chironomids [midgefly larvae], amphipods [sideswimmers], etc.). The remaining organisms will be counted but left in the sediment residue. The same procedure will be performed with the qualitative samples, except that the first 100 organisms will be removed and the remainder will not be counted.

Identification

All organisms removed from the samples will be identified to the lowest possible taxonomic unit, generally to genus, including oligochaetes. Nematodes will be identified to the phyletic level. Preserved samples should be archived for at least five years.

Data Analysis and Interpretation

The EPT (Ephemeroptera/Plecoptera/Trichoptera) Index may be used for this study, as this index was developed for application in streams with measurable current. However, few organisms in the three Orders of insects live in silty, lentic (slow-moving) waters, and therefore may not be found in the Tinker study area. Measures such as taxonomic richness, abundance (number per unit area), and presence/absence will enable comparisons among sections. Statistical analyses will include cluster (similarity) analysis and Sigtree on the quantitative data. The former will show

the similarity among the replicate samples at each section, and the latter will determine if the benthos is statistically similar or different among locations. Comparisons will be made between the benthos, habitat, and chemical evaluations.

Equipment and Supplies

stainless steel petite Ponar grab
dissecting pans
containers (plastic bags, jars)
assorted buckets/tubs
U.S. Standard sieves (#30, #60)
protective clothing (waders, boots, gloves)
forceps
binocular microscope
formalin (buffered) with Phloxine-B
plastic trays
standard kick net (250 μm mesh)
small boat

References

Brinkhurst, R.O. 1986. Guide to the Freshwater Aquatic Microdrile Oligochaetes of North America. Canadian Special Publication Fish. Aquat. Sci. 84:1-259.

Edmunds, G.F., Jr., Jensen, S.K. and Berner, L. 1976. The Mayflies of North and Central America. University of Minnesota Press, Mineapolis. 330 p.

Merrit, R.W. and K.W. Cummins, editors. 1978. An Introduction to the Aquatic Insects of North America. Kendall/Hunt Publishing Company, Dubuqe, IA. 441pp.

United States Environmental Protection Agency. 1989. Rapid Bioassessment Protocols for use in Streams and Rivers (Benthic Macroinvertebrates and Fish). EPA/444/4-89-001

United States Environmental Protection Agency. 1989. Risk Assessment Guidance For Superfund Volume II. Environmental Evaluations Manual. EPA/540/1-89/001.

United States Environmental Protection Agency. 1989. Ecological Assessment of Hazardous Waste Sites: A Field and Laboratory Reference. EPA/600/3-89/013.

United States Environmental Protection Agency. 1990. Macroinvertebrate Field and Laboratory methods for evaluating the Integrity of Surface Waters. EPA/600/4-90-030.

Wiggins. G.B. 1977. Larvae of the North American Caddisfly Genera (Trichoptera). University of Toronto Press, Toronto. 401 p.

Wiederholm, T. (ed.) 1983. Chironomidae of the Holarctic Region. Keys and Diagnoses. Part 1. Larvae. Entomol. Scand. Suppl. 19. 457 p.

SOP-A4
ASSESSMENT OF FISH COMMUNITIES AND POPULATIONS

Purpose and Background

This procedure describes the methods for evaluating the occurrence, distribution, and densities of fishes and to evaluate the possibility of occurrence of federal and/or state rare, threatened, and endangered fish species within the Tinker study area boundaries. The variety of physical habitats throughout portions of Soldier Creek on Tinker and immediately off-base will prevent consistent application of any one standardized sampling technique among stream sections. However, quantitative sampling is to be attempted to the extent possible. For the purposes of the ecological assessment, it is important to determine if fishes are present and, if so, to attempt to estimate their densities.

West Soldier Creek appears to be essentially dry or intermittent in its uppermost reach (Study Section BWS1), and therefore unlikely to support fish life. Between Industrial Boulevard and Interstate 40 (Study Section BWS2) there may be sufficient water to support at least transient specimens of fish. Most of the above-ground portion of East Soldier Creek south (upstream) of I-40 appears to have adequate flow and volume to support some fish communities, which are likely to vary substantially among sections because of major differences in habitats.

All methods of fish sampling (short of total removal via poisons or dewatering of the habitat) are selective for certain species (Nielsen and Johnson 1983). Seining was identified in the ROD as the method of choice for fish sampling in Soldier Creek, but this technique is unlikely to be effective in some of the habitats observed during the preliminary site reconnaissance. It is therefore advisable to employ electrofishing by means of a portable (backpack) shocker as an additional or alternative fish sampling method in some stream sections. Use of these two methods will enhance the likelihood of documenting the full diversity of fishes in most of the available habitats, and it will allow greater flexibility in approaches to estimating densities under widely varying conditions. The basic approaches to use of the gear described below are believed at this stage to be the most feasible; modifications may be warranted based on experience gained in the field.

The Statement of Work issued by Tinker specifies that fish are to be identified in the field, implying that most individuals should be returned alive to the stream if possible.

NOTE: Sampling of fishes (especially seining) will be the most disruptive of all the biological field activities. All other aquatic sampling activities for a study period within a given stream will be completed prior to initiation of fish sampling. Within a stream, sections will be visited in a downstream-to-upstream progression, to eliminate effects of sampling in one section on the results of sampling in downstream sections.

Quantitative Sampling

Each stream section is to be thoroughly inspected to evaluate the types and extends of habitats that are suitable for use of either a 10-ft X 6-ft (3/16-in mesh) straight nylon seine and/or a Smith-Root Model 15-A backpack electrofishing apparatus. Such habitat for the seine will be limited to areas which are 4 feet or less in depth, with relatively firm, even, and unobstructed bottom. The backpack shocker can be used in the same general conditions, but will also work in areas with uneven bottoms and frequent obstructions. The shocker may also be adaptable to use from a small boat in deeper pool areas, where the bottom appears too soft for effective seining regardless of depth. Effectiveness of the shocker will be limited by visibility.

Once the various "fishable" areas are delineated within a section, the longest continuous portion suitable for one or both methods will be selected for quantitative sampling. Either the entirety or up to 100 meters (if available) of this portion will be cordoned off by 3/16-in mesh blocking nets at opposite ends. Great care must be exercised in installing the blocknets to ensure that no avenues of escape are available below the leadline or around the sides.

When the quantitative sampling area is effectively isolated, it will be traversed with an appropriate gear in such a manner as to exert effort throughout all available habitat. With the shocker, this means moving slowly upstream and methodically passing the hand-held electrode near all areas of the substrate and around obstructions that may serve as cover. Stunned fish will be dipnetted by the shocker operator and an individual who wades behind to secure specimens missed by the operator. The fish are to be expeditiously placed in buckets or other suitable containers filled with water from the stream. Only experienced personnel should operate the shocker and serve as dipnetters, to ensure safety and maximize recovery of stunned specimens. When the entire isolated area has been traversed, the sampling crew will process its catch (see below) and place the fish back into the holding vessel(s). Another complete traverse of the sampling area will be performed; followed by release of the first catch; and processing and release of the second catch.

Quantitative seining is expected to be feasible only in a few sections, all of which appear to be suitable for electrofishing as well. Where quantitative seining is attempted, it should be performed after electrofishing. Seining should be conducted in a generally downstream progression (within a given location), making sure that all portions of the isolated area are exposed to the net. The area will be traversed by hauls of varying length and trajectory, depending upon local conditions. Where there are riffles (or riffle-like situations), undercut banks, or other places with discrete "cover" and current, there should be kick "sets." During each traverse the fish caught will be transferred to temporary storage for subsequent processing. As in the case of electrofishing, the processed catch from the first "pass" will not be released until after the second "pass" is completed.

Qualitative Sampling

In any stream section where a suitable area for quantitative sampling cannot be effectively isolated, but where localized habitats are accessible to shocking and/or seining, effort will be exerted with both gears (or at least the shocker) to determine which kinds of fish (if any) are present. This approach will also be used to acquire specimens for chemical analyses (see SOP-E6). The fish captured during qualitative sampling will be released if alive after processing, unless needed for chemical analyses.

Fish Processing

All specimens of fish caught during quantitative sampling will be identified to species and counted. Up to 10 individuals of each species will be measured (total length) from each catch. When more than 10 specimens of a species are available for a given catch, a reasonable effort should be made to include a representative size distribution in the subsample (i.e., by measuring the largest and smallest individuals, at a minimum). The fish are to be handled as carefully as practicable, to enhance survival of the released specimens. Primarily for this reason, the fish will not be weighed. However, as the fish are counted and measured they should be visually inspected for any overt signs of injury, disease, or parasites. To the extent discernible under the constraints imposed, the life-history phase (juvenile or adult) and sex of individual specimens will be recorded. Whenever the identity of a species is in question, representative specimens should be fixed in 10% buffered formalin solution in a labeled container for subsequent examination by a qualified expert.

Data Analysis and Interpretation

For each of the quantitative sampling locations, population estimates by species (and gear) will be made using the "Two-Pass Depletion" method described by Robson and Regier (1970). It is important to recognize that these estimates will strictly apply to the respective areas which are isolated for sampling, although in cases where the sampling area is a fraction of a more extensive (i.e., >100 meters) continuous habitat the estimates may be expanded by extrapolation. For crude comparative purposes, the results of qualitative sampling will be expressed as catch per unit of time.

Equipment and Supplies

measuring board
measuring tape
plastic bags/jars
dipnets
seines
chest waders
elbow-length rubber gloves
field notebook
labels
holding tubs/buckets
hand magnifying lens
formalin (10 percent buffered)
block nets
backpack shocker
knee-length rubber boots
camera/film
data entry forms
plastic trays

References

Cross, F.B. 1967. Handbook of Fishes of Kansas. University of Kansas Museum of Natural History. Miscellaneous Publication 45. 357 pp.

Miller, R.J. and H.W. Robinson. 1973. The Fishes of Oklahoma. Oklahoma State University Press. Stillwater, Oklahoma.

Nielsen, L.A. and D.L. Johnson (editors). 1983. Fisheries Techniques. American Fisheries Society. Bethesda, Maryland.

Pflieger, W. L. 1975. The Fishes of Missouri. Missouri Department of Conservation. 34 pp.

Robinson, H.W. & T.M. Buchanan. 1988. Fishes of Arkansas. University of Arkansas Press. Fayetteville. 536 pp.

Robson, D.S., and H.A. Regier. 1970. Estimates of Population Number and Mortality Rates. W.E. Ricker (editor). Methods for Assessment of Fish Production in Fresh Waters. International Publications, Oxford. Pages 146-148.

SOP-A5
SURVEYS FOR TERRESTRIAL/AMPHIBIOUS VERTEBRATES

Purpose and Background

This procedure describes the methods for evaluating the occurrence and relative abundance of terrestrial and/or amphibious vertebrates in the immediate vicinity of the streams within Tinker study area boundaries. The target organisms include amphibians, reptiles, birds, and mammals. The basic objectives of this activity are to: (1) evaluate the types and frequencies of occurrence of higher vertebrates that are likely to come into direct of indirect contact with Soldier Creek sediments and surface water; and (2) evaluate the potential for occurrence of vertebrates that may be of special concern due to their recognition by federal and/or state authorities as rare, threatened, or endangered.

A general practice during all ecological assessment field activities (especially the measurement and sampling of riparian terrestrial vegetation) will be to record anecdotal observations of direct or indirect evidence of amphibians, reptiles, birds, and mammals. For example, during the preliminary site reconnaissance, several living specimens of slider turtle (*Pseudemys scripta*) were observed in/along East Soldier Creek between Douglas Boulevard and I-40; several birds were noted; and the tracks of at least three species of wild mammals were recognized.

In addition to the general practice just described, limited systematic methods of observation will be applied. No intrusive sampling (e.g., trapping) will be performed, except when frogs may be collected for chemical analysis as described in SOP-E6. Extensive use of photography is anticipated. Additionally, small specimens (especially of amphibians and reptiles) may be handled briefly to verify identification. Such specimens will be released alive unless a voucher specimen for expert examination is needed. Transect survey methods will be used to evaluate frequencies of occurrence and relative abundances of some animals, as applicable.

Many vertebrates (especially amphibians and mammals) are cryptic and nocturnal. Thus some qualitative surveying activities will be performed at night with the aid of portable lights. Appropriate military and law-enforcement personnel, as well as accessible residents in off-base areas to be visited will be notified in advance of such activities. For purposes of this procedure, it is assumed that Tinker will secure appropriate permission for entry to private property.

Transect Surveys ("Flush Counts")

Based on vegetation, terrain, visibility, and other relevant factors, a comparable group of survey routes, or transects of known length will be established in the riparian portion of each stream section. The level of effort (e.g., number/length of transects, frequency of surveys) will be held as constant as practicable between sections. Each route will be temporarily marked with surveyor's flagging to ensure precise replication of surveys among visits.

Each transect will be visited twice (on separate days) during each ecological sampling period. An observer will walk through the transect and document all observations (direct and indirect) of vertebrate animals, as well as information relevant to interpretation of the primary observations (e.g., weather conditions, elapsed time, disturbances such as passage of vehicles/aircraft). Indirect evidence of the presence of animals will include, but not be limited to, such things as tracks, scat, skeletal remains, nests, dens, "rubs," and vocalizations. Recognition of species will be based largely on the training and experience of the observer, augmented by reference materials such as field guides and audio tapes.

Data Analysis and Interpretation

At a minimum, the following information will be developed on terrestrial/amphibious vertebrates on the basis of anecdotal observations and transect surveys:

- A list of species directly or indirectly observed in each study section during each field study period, including life-history stages when evident, and numbers of individuals noted per unit of effort (distance, area, time).
- A summary list and descriptions of diversity (species richness) and relative abundances of species within each section.
- Summaries of adequately-documented observations relative to habitat associations of representatives (including life stages) of the various species.
- Summaries of adequately-documented observations relative to feeding behavior including, where possible, identification of the types or categories of food items ingested.

Equipment and Supplies

binoculars (8X)
field logbook and data entry forms
35 mm SLR camera and film
snake stick
plastic bags/jars
field guides
portable audio tape recorder
gloves
portable lights
protective clothing (e.g., chaps)

References

Collins, J.T. 1974. Amphibians & Reptiles in Kansas. University of Kansas Museum of Natural History. Public Education Series No. 1.

Hall, E.R. & J.K. Jones, Jr. 1959. The Mammals of North America. Zoological Ronald Press New York.

James, D.A. & J.C. Neal. 1986. Arkansas birds; their distribution and abundance. Univ. of Arkansas Press, Fayetteville 402 pp.

Oklahoma Department of Wildilife Conservation, 1984. Birds of the Oklahoma City Area.

Schwartz. C.W. & R.W. Schwartz. 1959. The Wild Mammals of Missouri. University of Missouri Press & Missouri Conservation Commission.

United States Environmental Protection Agency. 1989. Ecological Assessment of Hazardous Waste sites: A Field and Laboratory Reference. EPA/600/3-89/013. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, Oregon

SOP-A6
BIOLOGICAL SAMPLING FOR ANALYSES OF CONTAMINANT RESIDUES

Purpose and Background

This procedure describes the methods for collection and field processing of biological samples to be submitted for chemical analyses. Insofar as available and required in the currently-effective version of the Workplan, three samples of each of three kinds of organisms may be collected from certain locations in East and West Soldier Creek and a reference stream. Based on the site reconnaissance, background information, and professional judgement, species most likely to be available in sufficient quantities from both Soldier Creek and the reference stream would include a vascular aquatic plant; a crayfish; one or two fishes; and/or an amphibian (e.g., bullfrog). The main objective of the sample collection and preparation for this study is to provide comparable data for evaluation of Soldier Creek and the reference stream, exposure assessment data for a quantitative ecological risk assessment, and a database for subsequent monitoring.

To acquire sufficient tissue to support analytical requirements, it is anticipated that representatives of most species will have to be composited within a sampling location, although individual bullfrogs may be available for discrete samples.

Chemical contaminants are not evenly distributed throughout biological tissue. Therefore, to obtain homogeneity, all biological samples must be ground to a similar consistency. This procedure assumes that grinding and homogenization of biological samples will be performed by the subcontractor laboratory.

Sampling

Vascular aquatic plants will be withdrawn by hand from the substrate as entire specimens. The specimens will be rinsed in the surface water of the immediate stream section to remove sediment and other extraneous adhering materials. Once an adequate mass (50 grams wet weight) is accumulated, it will be packaged as described below. Replicate samples will be collected from the same stream section.

Fishes and crayfish will be collected with the qualitative techniques described in SOP-E4 and/or funnel traps. Replicates for a given species will be collected from the same stream section. Once the availability of a given species is verified, a standardized process for compositing specimens within a given sampling location will be established to ensure that samples are comparable with respect to numbers and sizes of individuals.

Frogs will be collected by hand and/or dipnet, probably with the aid of a flashlight at night. Replicate samples will be collected from the same stream section. If compositing of frogs is necessary, they will be treated as described for fish/crayfish. If enough individual frogs

exceeding 50 grams (total wet weight) are available from all stream sections to be compared, then each frog will constitute a discrete sample.

Field Processing of Samples

For all biological samples for chemical analysis, decontamination procedures for any re-usable utensils will be performed as described in the FSP for sediment sample processing. Personnel handling specimens will wear disposable surgical gloves to be changed between sampling locations. Immediately upon collection and selection for possible analysis, specimens will be placed in sealed, labeled plastic bags and temporarily stored in a cooler with wet or artificial ("blue") ice. All samples for analysis will be processed, finally packaged, and frozen within 12 hours following collection.

Animal specimens are to be individually measured and weighed as part of preparation. To the extent practicable, composites for a given species should be comprised of comparable numbers and sizes of individuals. In any case, a thorough description of the sizes and weights of individual components of samples will be recorded. Do not mix species unless, for a given class (e.g., fish, crayfish), a reasonable collecting effort has demonstrated that insufficient quantities are available to prepare monotypic composites. Even then, only closely-related species should be mixed.

Plant specimens are to be weighed in aggregate, and the general size range of individuals composited will be recorded. Do not mix species.

A minimum of 50 grams (wet weight) is required for each biological sample. Up to 200 grams should be included, if available.

Final packaging for all biological samples will be appropriate-sized, precleaned glass jars with labels affixed to the exterior and protected by moisture-resistent tape. Each jar will be overpacked in double, sealed plastic bags to provide a cushion and protection from moisture.

Frozen samples will be placed in sturdy coolers with dry ice for shipping via overnight carrier to the subcontractor laboratory. All samples in a cooler will be listed on chain-of-custody (COC) forms placed in a plastic bag and fastened to the inside of the cooler lid. The COC forms and contents of each cooler will be checked for consistency by an individual other than the person who initiated the documentation prior to final closing of the cooler. The cooler will then be fastened closed with strapping tape and a custody seal will be affixed.

Equipment and Supplies

portable scale (0.1-gram sensitivity)
heavy-duty aluminum foil
dipnets
sealable plastic bags
labels
data entry forms
disposable (aluminum) weighing containers
dry ice
surgical gloves
stainless steel forceps
measuring board/rule (metric)
flashlight
precleaned glass jars
field logbook
decontamination supplies
coolers (ice chests)
wet ice (or "blue ice")
funnel traps (and bait)

References

APHA. 1992. Standard methods for examination of Waste and Wastewater. 18TH Ed. American Public Health Association, Washington, DC.

Cunningham, P.A., J.M. McCarthy and D. Zeitlin 1990. Results of the 1989 Census of State Fish/Shellfish Consumption Advisory Programs. Prepared for S.M. Kroner, Assessment and Water Shed P rotection.

Hesse, John L. Michigan Department of Public Health, 1990. Summary and Analysis of Existing Sportfish Consumption Advisory Programs in the Great Lakes Basin. The Great Lakes Fish Consumption Advisory Task Force Co-Chaired by H.A. Anderson and L. Liebenstein, State of Wisconsin. Unpublished.

Klemm, D.J., Q.J. Stober, and J.M. Lazorchak. 1993. Fish field and laboratory methods for evaluating the biological integrity of surface waters. EPA/600/R-92/111. Environmental Monitoring Systems Laboratory Office of Modeling, Monitoring Systems, and Quality Assurance Office of Research and Development, Cincinnati, Ohio.

Puget Sound Estuary Program 1986. Recommended Protocols for Measuring Metals in Puget Sound Water, Sediment and Tissue Samples. Prepared by Tetra Tech, Inc., Bellevue, WA. *In*: Recommended Protocols for Measuring Selected Environmental Variables in Puget Sound. U.S. EPA, Region 10, Seattle, WA (Looseleaf).

Puget Sound Estuary Program 1989 (Revised). Recommended Guidelines for Measuring Organic Compounds in Puget Sound Sediment and Tissue Samples. Prepared by Tetra Tech, Inc., Bellevue, WA. *In*: Recommended Protocols for Measuring Selected Environmental Variables in Puget Sound. U.S. EPA, Region 10, Seattle, WA (Looseleaf).

USEPA. 1989. Assessing Human Health Risks from Chemically Contaminated Fish and Shellfish: A Guidance Manual. EPA-503/8-89-002. Office of Marine and Estuarine Protection and Office of Water Regulations and Standards, Washington, DC.

USEPA. 1990a. Bioaccumulation of Selected Pollutants in Fish, A National Study Volume I and II. EPA-506/6-90/001. Office of Water Regulations and Standards (WH-552), Washington, DC.

USEPA. 1990b. Extraction and Analysis of Organics in Biological Tissue, Method OB 8/90, U.S. EPA, Environmental Services Division, Region IV, Analytical Support Branch, Athens, GA.

SOP-A7

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SEDIMENTS TO *HYALELLA AZTECA*

INTRODUCTION

Purpose and Background

This protocol describes a two step toxicity assessment of sediments collected from Soldier Creek within the Tinker study area boundaries to *Hyalella azteca*. The first step is an initial acute toxicity test and the second is a chronic toxicity assessment. The objectives of the initial acute toxicity test is to determine 1) if the sample is capable of producing an acute toxic response (specifically lethality) and if so 2) define the test concentrations for the chronic toxicity assessment. Specific toxicological endpoints include;

- Lethality (acute and chronic toxicity tests)
- Reproduction (chronic toxicity test only)
- Growth (chronic toxicity test only)
- Acute to chronic toxicity ratio (acute lethality/chronic lethality)

Lethality will be represented by the LC_{50}, that concentration calculated to produce 50% mortality in the population of test animals. Effects on reproduction and growth will be represented by the NOAEC (no observed adverse effect concentration) and the LOAEC (lowest observed adverse effect concentration). These endpoints are determined statistically at a significance (alpha) level of 0.05. The NOAEC is the highest test concentration at which there is no statistically significant adverse effect on survival, reproduction or growth. The LOAEC is the lowest test concentration at which a statistically significant adverse effect on survival, reproduction and/or growth occurred. The acute to chronic toxicity ratio is the ratio between the acute (96 hour) LC_{50} and the chronic (28 day) LC_{50}. The specifics of the calculations for these endpoints are presented in the statistical section of this protocol.

Methods and Materials

TEST ORGANISMS

1. Species. *Hyalella azteca* will be used to test the toxicity of sediment samples for this protocol. The test animals will be second to third instar for the acute toxicity test and first instar neonates, less than or equal to 24 hours of age for the chronic toxicity assessment. Thirty animals will be exposed to each test dilution and control in 3 replicate test vessels for both the acute toxicity assessment and the chronic toxicity test.

2. Origin and Acclimation. Cultures of *H. azteca* are maintained at WCC's Environmental Toxicology Laboratory in Franklin,TN. The culture techniques follow procedures in accordance with WCC SOP 035. Mass cultures consist of animals grown within an algal turf scrubber with secondary cultures in 2 to 3 liter beakers with an initial seeding of 20 to 50 adults. The culture media consists of moderately hard reconstituted fresh water (USEPA, 1991), algal cells and rabbit chow. The cultures kept within beakers are fed on a Monday, Wednesday, Friday schedule. The *H. azteca* are routinely cultured at 25° C under 50 to 100 foot candles and a photoperiod of 16 hours and 8 hours dark.

3. Reference Toxicity Testing. The *H. azteca* cultured, in house, are subjected to a toxicity assay with a reference toxicant; $CdCl_2$ to determine the sensitivity of any batch of animals used in toxicity testing.

TEST DESIGN AND PHYSICAL SYSTEM

1. Test Vessels. Test vessels will be 500 ml containers. Each test vessel will contain 100 ml (cm^3) of test sediment sample dilutions or control sediment. Each container will also be filled will 300 ml of laboratory water. There will be three test vessels for each test dilution and control for both the acute and chronic toxicity tests. Each vessel will be randomly assigned to a grid location within the test chamber; an environmentally controlled chamber. All test vessels and glassware used in the preparation of test dilutions will be cleaned following the outline provided in USEPA, 1991 and WCC SOP 010. All vessels will be covered to reduce evaporation.

2. Test Design-Acute Toxicity Test. The test will consist of at least 5 sediment dilutions and a dilution sediment control. The sample dilutions will follow a geometric progression and are preliminarily set at 100, 50, 25, 12.5, and 6.25%. If after one to five hours, 100% mortality is observed in the 100% and/or 50% sample dilutions, additional sample dilutions may be added, such as 3.1%, 1.5% or 0.75%.

3. Dilution Sediment and Overlying Water. Dilution sediment will be either quartz sand, sterilized field collected sediment or a combination of the two. The control (dilution) sediment will be made to resemble the texture (grain size distribution) of the test sediment, based on visual observations. Overlying water will be reconstituted fresh water similar to that of the overlying water sampled, based on water hardness and alkalinity. The source of the water used to prepare synthetic fresh waters is laboratory tap water that is coarse-filtered, activated carbon filtered, UV sterilized, reverse osmosis filtered (Millipore 0-60®) and Super-Q filtered (Millipore Super-Q filter®) and subsequently glass distilled. This system provides a quality of water that exceeds ASTM/CAP/NCCLS standards for Type 1 reagent grade water. Dilution water will be prepared in a minimum of 19L batches and stored in high density polyethylene (HDPE) containers. It will be aerated to bring the pH and dissolved gases into equilibrium with the atmosphere. Total hardness, total alkalinity, pH, dissolved oxygen and specific conductance are measured on each batch of water and will be within 15% of the overlying water sampled within the Soldier Creek sediment samples.

4. Test Temperature. The test temperature will be 25±1°C. Temperature will be maintained by placing test vessels in a temperature-controlled environmental chamber.

5. Lighting. Coolwhite fluorescent lamps are used to illuminate the testing area. Light intensity at the surface of the test vessel will be between 50 and 100 foot-candles. The photoperiod will be 16 hour light and 8 hours dark.

6. Test Duration. Each acute toxicity test will be a 96-hour exposure and each chronic toxicity assessment will encompass a 28-day exposure period.

TEST MATERIAL

1. Receipt and Documentation. Upon arrival at WCC, the package containing the test material will be inspected for damage. The container of sediment sample will be removed from the shipping package and inspected for damage. Information located on the sample label will be transcribed into a WCC laboratory data log book. This data form will be archived and placed in the study report at the completion of the study. Sample description, date, time, temperature, and condition will be recorded as well.

2. Initial Overlying Water Chemistry Measurements. The temperature of the sample will be measured as soon as it is received with a calibrated thermometer and recorded. Once a subsample of the overlying water is at experimental temperature, the pH, specific conductance, dissolved oxygen (DO), total alkalinity, and total EDTA hardness will be measured. The pH, conductivity, and DO will be measured with calibrated meters, while total alkalinity and hardness will be measured using colormetric methods described by APHA (1989) and WCC SOPs 114 & 115.

TEST PROCEDURE-ACUTE TOXICITY SCREEN

1. Prior to Test Initiation. Prior to the start of the test, second to third instar *H. azteca* will be removed from the cultures and placed in a separate vessel containing culture water. If the overlying water hardness and/or alkalinity is outside 15% of the culture water the collected test organisms will be tempered to the hardness/alkalinity of the overlying water. This will be accomplished by progressive additions to or dilution of the culture water.

2. Test Set-up. A sample of the sediment will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. Overlying water, prepared from laboratory water will be carefully decanted into the test vessels so as not to disturb the sediment. The pH, dissolved oxygen content, and conductivity of these waters will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 60% of the saturation point, the test solution will be aerated to such a level.

3. Random Assignment of the Test Animals. A total of greater than 180 neonates will be pooled into a single vessel containing culture media. From this vessel groups of five animals will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group the five animals will be placed in a transfer vessel containing overlying water. The assignments and transfers will continue until each group has a complement of 10 animals. From the transfer vessel for each test dilution and control, groups of five neonates will be randomly assigned to a replicate until each replicate has a total of ten animals. This procedure satisfies a stratified random assignment.

4. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chamber.

5. Biological Data. At 24, 48, 72 and 96 hours of exposure, observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body or appendages upon gentle prodding. Any dead *H. azteca* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity.

6. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer in a surrogate test vessel filled with dilution water. Dissolved oxygen will also be measured every 24 hours within at least one replicate of each test concentration and control. Any notable characteristics of the test solutions (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations. At the termination of the test, pH and conductivity will be made in addition to the daily measurements.

TEST PROCEDURE-CHRONIC TOXICITY TESTING

1. Prior to Test Initiation. On the day before test initiation, gravid females will be isolated from their offspring in a separate culture vessel. The morning of the test, neonates produced by the separated gravid females will be collected to serve as test animals. Such a procedure insures that the animals collected for use in the test will be less than or equal

to 24 hours of age. If the overlying water hardness and/or alkalinity is outside 15% of the culture the test animals will be tempered to the hardness/alkalinity of the surface water sample. This will be accomplished by progressive additions to or dilution of the culture water.

2. Test Set-up. A sample of the sediment will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. The pH, dissolved oxygen content, and conductivity of the overlying water will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 60% of the saturation point, the water will be aerated to such a level. The individual test chambers will then be randomly distributed to spacial grid locations based on a random number table (e.g. Rolhf, 1981).

3. Random Assignment of the Test Animals. A total of greater than 180 neonates will be pooled into a single vessel containing culture media. From this vessel groups of five animals will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group the five animals will be placed in a transfer vessel containing overlying water. The assignments and transfers will continue until each group has a complement of 10 animals. From the transfer vessel for each test dilution and control, groups of five neonates will be randomly assigned to a replicate until each replicate has a total of ten animals. This procedure satisfies a stratified random assignment.

3. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chamber.

4. Biological Data. Daily observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body or appendages upon gentle prodding. Any dead *H. azteca* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity. Any and all offspring produced during the exposure duration will be removed and enumerated on a daily basis and duly recorded.

5. Test Maintenance. Overlying water will be renewed on a daily basis a total of 600 ml (2 volume replacements) will be exchanged. Intermittent flow of freshly prepared overlying water will be delivered to each exposure vessel. Food will directly added to the test vessels.

6. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer in at least one replicate exposure vessel for each test concentration and control. Dissolved oxygen will also be measured in at least one test replicate on a daily basis. The overlying water pH and conductivity will be measured three times a week during the exposure period in at least one replicate of each test concentration and control. Each batch of water used as renewal water will be measured for dissolved oxygen, pH, conductivity, total alkalinity and hardness. At the termination of exposure, total alkalinity and hardness will be measured within at least one replicate of the highest sediment test concentration and a control exposure vessel. Any notable characteristics of the test sediments or overlying water (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations.

STATISTICAL METHODS

The LC_{50} will be calculated for those samples that were capable of producing greater than 50% mortality in the test organisms. The calculation will employ one or more of the following methods; probit transformation and subsequent regression analysis, the trimmed Spearman-Karber method or, the binomial probability method. The selection of the method will be based on the toxicity results. If two or more sample test concentrations result in partial mortality, bracketing 50%, the probit method will be used. If partial mortality is observed in only one test concentration, the Trimmed Spearman-Karber method will be used. This method will also be used if the concentration to effect relationship is not monotonic in character. The binomial probability method, an interpolation with a bionomially derived confidence interval, will be used if only 100% and 0% mortality rates are observed within the test concentrations.

Sublethal effects will be assessed using parametric statistical techniques (e.g. analysis of variance), if the data is found to be normally distributed and if the test groups and control(s) exhibit homogeneity of variances. The data may be transformed (e.g. square root transformation for count data, arc-sine transformation for percentages and/or natural log transformation for

weight data) if these conditions are not met. If no transformation is found to allow parametric statistical analysis, non-parametric methods will be used.. Multiple comparison techniques for experiments with controls (e.g. Dunnett's Test or Steel's Many One Rank Test) will be used to determine if the toxicological endpoints observed within the sample test concentrations significantly differ from control. Statistical significance will be set at an alpha of 0.05 for these assessments. These comparisons will be single-sided to determine if there is a significant adverse effect due to exposure to the test samples. These effects would be; a reduction in growth, a reduction in the production of offspring and/or a reduction in survival.

Reporting of Results

The raw data and final draft of the report are reviewed by WCC's Quality Assurance Unit. A single copy of the draft report and a copy of the original raw data will be submitted to Tinker for review. Upon acceptance by Tinker, a signed original report along with the original raw data will be submitted to Tinker. The report will include, but not be limited to, the following information:

- objectives and procedures of the study including any changes from the original protocol
- initiation and completion dates of the definitive test, project number, name and address of the test facility
- signatures of appropriate laboratory individuals associated with the study
- information on the sample as provided on the sample label along with any information provided by Tinker, the date of its receipt and its storage conditions at WCC
- scientific name of the test organism, source, age and percent mortality of the population 48 hours prior to testing

- exposure system description, test design (e.g., number of treatment levels and replicates), dimensions of the test vessels and depth and volume of the test solution

- summary of the data analyses, mortality observations and water quality measurements

- authenticated copies, or originals if required, of the original data collection bench sheets on which the survival/mortality observations were made, the water chemistry analysis performed and statistical interpretation of the results

- reference to the statistical methods used in the data analyses, the LC_{50} concentrations with 95% confidence limits (if possible), and the NOAEC concentration

- results of the most recent reference toxicity assay with the test species under similar test conditions and how the results compare to the running record of reference toxicity assays

- deviations from the study protocol and any unusual observations that may have impacted the study results

- the locations where any specimens, raw data, and the final report are to be stored

SUMMARY OF RECOMMENDED SEDIMENT TOXICITY TEST CONDITIONS FOR THE AMPHIPOD (HYALELLA AZTECA) SURVIVAL TEST A 96 HOUR STATIC - ACUTE TEST

1.	Test type	Static
2.	Temperature (°C)	25 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	0.5 liter
7.	Test solution volume	100 cm^3 sediment, 300 ml water per replicate
8.	Renewal of overlying water	None, except to replace evaporation
9.	Age of test organisms	Second or third instar
10.	No. larvae per test chamber	10
11.	No. replicate chambers per sediment sample	3
12.	No. larvae per sediment sample concentration	30
13.	Feeding regime	None

14.	Aeration	D.O. concentration is to be maintained above 60% of saturation. Aeration rate should not exceed 100 bubble a minute.
15.	Cleaning	None
16.	Effect measured	Survival
17.	Minimum acceptable control survival	80%

SUMMARY OF RECOMMENDED SEDIMENT TOXICITY TEST CONDITIONS FOR THE AMPHIPOD (HYALELLA AZTECA) SURVIVAL, REPRODUCTION & GROWTH TEST
A 28 DAY STATIC-RENEWAL - CHRONIC TEST

1.	Test type	Static-renewal
2.	Temperature (°C)	25 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	0.5 liter
7.	Test solution volume	100 cm^3 sediment, 300 ml water per replicate
8.	Renewal of overlying water	Two volume replacements per 24 hours

9.	Age of test organisms	First instar
10.	No. larvae per test chamber	10
11.	No. replicate chambers per sediment sample	3
12.	No. larvae per sediment sample concentration	30
13.	Feeding regime (daily)	4 mg rabbit pellets & ~ 10^7 algal cells
14.	Aeration	D.O. concentration is to be maintained above 60% of saturation. Aeration rate should not exceed 100 bubble a minute.
15.	Cleaning	None
16.	Effect measured	Survival, growth, reproduction
17.	Minimum acceptable control survival	80%

References

American Public Health Association, American Water Works Association and the Water Pollution Control Federation. 1989. Standard Methods for the Examination of Water and Wastewater. 17th Ed. American Public Health Association, Washington, DC.

American Society for Testing and Materials. 1992. Standard Guide for Conducting Sediment Toxicity Tests with Freshwater Invertebrates. E-1383-92. ASTM E-47.03, ASTM, Philadelphia, PA.

American Society for Testing and Materials. 1993. Proposed Guide for Designing Biological Tests with Sediments. DRAFT #2 E-1525. ASTM 47.03, ASTM, Philadelphia, PA.

American Society for Testing and Materials. 1992. New Standard Guide for Collection, Storage, Characterization, and Manipulation of Sediments for Toxicological Testing. E-1391-90. ASTM 47.03, ASTM Philadelphia, PA.

Busacker, G., D. Anderson, A. Gibson, & T. Dillon. 1990. "Bioassessment Methodologies for the Regulatory Testing of Freshwater Dredged Material" Miscellaneous Paper EL-90-7, US Army Engineer District, St. Paul, St. Paul, MN, and US Army Engineer Waterways Experiment Station, Vicksburg, MS.

United States Environmental Protection Agency. 1991. Sediment Toxicity Evaluation: Phase I (Characterization), Phase II (Identification) and Phase III (Conformation) Modifications of Effluent Procedures. DRAFT. EPA/600/6-91/007.

United States Environmental Protection Agency and the US Army Corps of Engineers. 1990. Evaluation of Dredged Material Proposed for Ocean Disposal: Testing Manual. EPA-503/8-91/001.

United States Environmental Protection Agency. 1990. Manual for the Evaluation of Laboratories Performing Aquatic Toxicity Tests. EPA/600/4-90/031.

United States Environmental Protection Agency. 1989. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Marine and Estuarine Organisms. EPA/600/4-87/028.

Sokal, R.R. and F.J. Rolhf. 1981. Biometry: The Principles and Practice of Statistics in Biological Research. Second Edition. W.H. Freeman & Co., San Francisco, CA.

Thomas, N., J.O. Lamberson, and R.C. Swartz. 1992. Bulk sediment toxicity approach. Chapter 3 In *Sediment Classification Methods Compendium*. B. Baker & M. Kravitz, Ed.s, US Environmental Protection Agency, EPA 823-R-92-006.

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *Hyalella azteca*

TO BE COMPLETED BY THE STUDY SPONSOR:

SPONSOR: _____

_____

_____

_____ PHONE: _____

PROJECT NUMBER: _____

TEST MATERIAL: Field collected sediment samples

TEST SPECIES: *Hyalella azteca*

PROTOCOL APPROVAL:

Sponsor's Representative: _____
Typed Name/Title

_____

Signature Date

TO BE COMPLETED BY WCC PERSONNEL PRIOR TO TEST INITIATION:

WCC Study Director: _____
Typed Name/Title

_____

Signature Date

Proposed Test Dates: initiation: _____ completion: _____

Comments/Notes:

_____

_____

_____

SOP-A8

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *CERIODAPHNIA DUBIA*

INTRODUCTION

Purpose and Background

This protocol describes a two step toxicity assessment of surface water collected from Soldier Creek within the Tinker study area boundaries to *Ceriodaphnia dubia*. The first step is an initial acute toxicity test and the second is a chronic toxicity assessment. The objectives of the initial acute toxicity test is to determine 1) if the sample is capable of producing an acute toxic response (specifically lethality) and if so 2) define the test concentrations for the chronic toxicity assessment. Additionally, an effort will be made to determine if the toxicity changes over time, based on an aging of 48 hours.

Specific toxicological endpoints include:

- Lethality (acute and chronic toxicity tests)
- Reproduction (chronic toxicity test only)
- Growth (chronic toxicity test only)
- Acute to chronic toxicity ratio (acute lethality/chronic lethality)
- The IC_{10} for the intrinsic rate of population increase

Lethality will be represented by the LC_{50}, that concentration calculated to produce 50% mortality in the population of test animals. Effects on reproduction and growth will be represented by the NOAEC (no observed adverse effect concentration) and the LOAEC (lowest observed adverse effect concentration). These endpoints are determined statistically at a significance (alpha) level of 0.05. The NOAEC is the highest test concentration at which there is no statistically significant adverse effect on survival, reproduction or growth. The LOAEC is the lowest test concentration at which a statistically significant adverse effect on survival, reproduction and/or growth occurred. The acute to chronic toxicity ratio is the ratio between the acute (48 hour) LC_{50} and the chronic (7 day) LC_{50}. The intrinsic rate of population increase (r) is a statistic based on survival, reproduction and age at onset of reproduction. The IC_{10} is that concentration that

produces a 10% inhibition based on linear interpolation of the test concentration results. The specifics of the calculations for these endpoints are presented in the statistical section of this protocol.

Methods and Materials

TEST ORGANISMS

1. Species. *Ceriodaphnia dubia* will be used to test the toxicity of surface water samples for this protocol. The test animals will be first instar neonates, less than or equal to 24 hours of age. Twenty animals will be exposed to each test dilution and control in 4 replicate test vessels for the acute toxicity assessment. Ten animals will be exposed to each test dilution and control in 10 replicate test vessels for the chronic toxicity assessment.

2. Origin and Acclimation. *Ceriodaphnia dubia* were originally obtained from Aquatic Research Organisms in Hampton, NH. Cultures are maintained at WCC's Environmental Toxicology Laboratory in Franklin TN. The culture techniques follow procedures in accordance with WCC SOP 030. Both individual and mass cultures are maintained. Individual cultures consist of one animal per 20 ml of culture media, while the mass cultures consist of an initial seeding of 20 to 50 adults in 3 liters of culture media. The culture media consists of either moderately hard reconstituted fresh water (USEPA, 1991), or soft reconstituted fresh water, *Selenastrum* algal cells and a yeast, trout chow, and cereal leaves preparation. Both the individual and the mass cultures are fed daily. The individual cultures receive a 100% water / media change every Monday, Wednesday and Friday. The general life of each culture, both individual and mass is up to two weeks. The *C. dubia* is routinely cultured at 25° C under 50 to 100 foot candles and a photoperiod of 16 hours light and 8 hours dark.

3. Reference Toxicity Testing. On at least a monthly basis, the *C. dubia* cultured, in house, are subjected to a toxicity assay with a reference toxicant; NaCl. If greater than two tests are conducted per month, then reference toxicity tests are conducted on a biweekly basis. From this data, a cumulative - summation chart is kept on the successively produced LC_{50}'s. Neonates from the individual cultures are routinely used for toxicity assessments, both those cultured in soft as well as those cultured in moderately hard water. If the reference toxicity results fall outside the upper or lower control values, neonates from the mass cultures will be tested along-side a second test with individual culture neonates and the testing procedures reviewed for operator error. In this way it may be determined if there is a problem with the particular brood from the individual cultures, with the reference toxicant and/or the overall condition of the *C. dubia* cultures.

Verification of a result outside acceptable limits will result in 1) evaluation of each test conducted with that batch of test organisms; 2) evaluation of the possible causes of increased or decreased sensitivity (eg., culture methods, food, disease); and 3) notification of all test sponsors for which tests were conducted with that batch of test organisms. Until such a time at which the outlying reference LC_{50} can be explained or rejected, no further tests will be conducted with that batch of animals.

TEST DESIGN AND PHYSICAL SYSTEM

1. Test Vessels. Test vessels will be 30 ml polystyrene plastic cups filled to a minimum of 15 ml to 20 ml with surface water sample dilutions or control water. There will be four test vessels for each test dilution and control during the acute toxicity screening tests and ten test vessels for each test dilution and control during the chronic toxicity tests. Each vessel will be randomly assigned to a grid location within the environmentally controlled test chamber. All test vessels and glassware used in the preparation of test dilutions will be cleaned following the outline provided in USEPA, 1991 and WCC SOP 010. All vessels will be covered to reduce evaporation.

2. Test Design-Acute Toxicity Test. The test will consist of at least 5 surface water dilutions and a dilution water control. The sample dilutions will follow a geometric progression and are preliminarily set at 100, 50, 25, 12.5, and 6.25%. If after one to five hours, 100% mortality is observed in the 100% and/or 50% sample dilutions, additional sample dilutions may be added, such as 3.1%, 1.5% or 0.75%.

3. Dilution Water. Dilution water will be reconstituted fresh water similar to that of the surface water sampled, based on water hardness and alkalinity. The source of the water used to prepare synthetic fresh waters is laboratory tap water that is coarse-filtered, activated carbon filtered, UV sterilized, reverse osmosis filtered (Millipore 0-60®) and Super-Q filtered (Millipore Super-Q filter®) and subsequently glass distilled. This system provides a quality of water that exceeds ASTM/CAP/NCCLS standards for Type 1 reagent grade water. Dilution water will be prepared in a minimum of 19L batches and stored in high density polyethylene (HDPE) containers. It will be aerated to bring the pH and dissolved gases into equilibrium with the atmosphere. Total hardness, total alkalinity, pH, dissolved oxygen and specific conductance are measured on each batch of water and will be within 15% of the surface water sampled within the Soldier Creek water samples.

4. Test Temperature. The test temperature will be 25±1°C. Temperature will be maintained by placing test vessels in a temperature-controlled environmental chamber.

5. Lighting. Coolwhite fluorescent lamps are used to illuminate the testing area. Light intensity at the surface of the test vessel will be between 50 and 100 foot-candles. The photoperiod will be 16 hour light and 8 hours dark.

6. Test Duration. Each acute toxicity test will be a 48-hour exposure and each chronic toxicity assessment will encompass a 7-day exposure period.

TEST MATERIAL

1. Receipt and Documentation. Upon arrival at WCC, the package containing the test material will be inspected for damage. The container of surface water sample will be removed from the shipping package and inspected for damage. Information located on the sample label will be transcribed into a WCC bound laboratory data log book. This data form will be archived and placed in the study report at the completion of the study. Sample description, date, time, temperature, and condition will be recorded as well.

2. Initial Water Chemistry Measurements. The temperature of the surface water sample will be measured as soon as it is received, with a calibrated thermometer and recorded. Once a subsample is at experimental temperature, the pH, specific conductance, dissolved oxygen (DO), total alkalinity, and total EDTA hardness will be measured. The pH, conductivity, and DO will be measured with calibrated meters, while total alkalinity and hardness will be measured using colormetric methods described by APHA (1989) and WCC SOPs 114 & 115.

TEST PROCEDURE-ACUTE TOXICITY SCREEN

1. Prior to Test Initiation. Twenty four hours prior to the start of the test, all neonates produced in the individual cultures will be removed and / or gravid females from the mass cultures will be placed in a separate vessel containing culture media. The morning of the test, neonates produced in the individual cultures and / or those by the separated gravid females will be collected to serve as test animals. Such a procedure insures that the animals collected for use in the test will be less than or equal to 24 hours of age. Those neonates produced from the individual cultures are the preferred experimental animals. If the surface water sample hardness and/or alkalinity is outside 15% of either those animals cultured in moderately hard or soft water, those cultured in closest water will be tempered to the hardness/alkalinity of the surface water sample. This will be accomplished by progressive additions to or dilution of the culture water.

2. Test Set-up. A sample of the surface water will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a

volume/volume basis and distributed to the replicate test chambers. The pH, dissolved oxygen content and conductivity of these dilutions will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 60% of air saturation, the test solution will be aerated to such a level.

3. Random Assignment of the Test Animals. A total of greater than 120 neonates will be pooled into a single vessel containing culture media. From this vessel groups of five animals will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group the five animals will be placed in a transfer vessel containing the test dilution or control water. The assignments and transfers will continue until each group has a complement of 20 animals. From the transfer vessel for each test dilution and control, groups of five neonates will be randomly assigned to a replicate until each replicate has a total of ten animals. This procedure satisfies a stratified random assignment and by using a transfer vessel reduces any transfer of culture media into the test solutions with the transfer of the test animals.

3. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chamber.

4. Biological Data. At 24 and 48 hours of exposure, observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body or appendages upon gentle prodding. Any dead *C. dubia* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity.

5. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer immersed in a surrogate test vessel filled with dilution water but without animals or effluent. Any notable characteristics of the test solutions (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations. At the termination of the test pH, conductivity, and dissolved oxygen measurements will be made in the effluent dilutions and control. At the termination of the test, pH, conductivity, and dissolved oxygen measurements will be made, at a minimum, in the lowest and highest test concentrations.

TEST PROCEDURE-CHRONIC TOXICITY TESTING

1. Prior to Test Initiation. Three potential windows will be used for selecting neonates for use in chronic toxicity testing. On the day before test initiation, gravid females will be isolated (all neonates removed) in the early afternoon. These will be checked for offspring production that evening. At that time, young will be removed for testing the following day (broods of 8 or more). This will also serve to isolate adults. All broods of less than 8 young will not be used in testing. Young produced from overnight hatch will be collected the following morning. Note that these young will have been hatched within about a 12 hour window. These young will be used as a last resort. All young will be removed in the morning to isolate the adults. The third window will be neonates released during the day of the test. If the surface water sample hardness and/or alkalinity is outside 15% of either those animals cultured in moderately hard or soft water, those cultured in closest water will be tempered to the hardness/alkalinity of the surface water sample. This will be accomplished by progressive additions to or dilution of the culture water.

2. Test Set-up. A sample of the surface water will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. The pH, dissolved oxygen content and conductivity of these dilutions will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 60% of the saturation point, the test solution will be aerated to such a level. The individual test chambers will then be randomly distributed to spacial grid locations based on a random number table (e.g. Rolhf, 1981). For example, control replicates will be enumerated as 1 to 10, the lowest test concentration as 11 to 20, *etc.* These identification numbers will be placed in the grids as they appear on the random number table.

3. Random Assignment of the Test Animals. A total of greater than 60 neonates will be pooled into a single vessel containing culture media. From this vessel five animals at a time will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group each group of five will be placed in a transfer vessel containing the test dilution or control water. The assignments and transfers will continue until each group has a complement of 10 animals. From the transfer vessel for each test dilution and control, single neonates will be randomly assigned to a replicate until each replicate has been filled. The total number of replicates will equal ten per test

concentration and control. This procedure satisfies a stratified random assignment and by using a transfer vessel reduces any transfer of culture media into the test solutions with the transfer of the test animals.

4. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chambers.

5. Biological Data. Daily observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body or appendages upon gentle prodding. Any dead *C. dubia* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity. Any and all offspring produced during the exposure duration will be removed and enumerated on a daily basis and duly recorded.

6. Test Maintenance. Exposure solutions will be renewed on a daily basis. At least 15 ml of freshly prepared sample solutions will be added to fresh exposure vessels. The remaining test solution will be placed in a surrogate vessel for water parameter measurements (see Water Quality Variable Measurement Section). The freshly prepared test solutions will be placed in new grids in the same position as the initial grid. Food is added to the test vessels as initially. Organisms are then transferred by pipette from the old to new test solutions. Water quality parameters in both the old and new test solutions will be measured and recorded.

7. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer immersed in a surrogate test vessel filled with dilution water but without animals or surface water sample. Any notable characteristics of the test solutions (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations. At the termination of the test, pH, conductivity, and dissolved oxygen measurements will be made in the effluent dilutions and control. At each water renewal and at the termination of the test, pH, conductivity, and dissolved oxygen measurements will be made, at a minimum, in the lowest and highest test concentrations.

STATISTICAL METHODS

The LC_{50} will be calculated for those samples that produced greater than 50% mortality in the test organisms. The calculation will employ one or more of the following methods; probit transformation and subsequent regression analysis, the Trimmed Spearman-Karber method or, the binomial probability method. The selection of the method will be based on the toxicity results. If two or more sample test concentrations result in partial mortality, bracketing 50%, the probit method will be used. If partial mortality is observed in only one test concentration, the Trimmed Spearman-Karber method will be used. This method will also be used if the concentration to effect relationship is not monotonic in character. The binomial probability method, an interpolation with a bionomially derived confidence interval, will be used if only 100% and 0% mortality rates are observed within the test concentrations.

Sublethal effects will be assessed using parametric statistical techniques (e.g. analysis of variance), if the data is found to be normally distributed and if the test groups and control(s) exhibit homogeneity of variances. The data may be transformed (e.g. square root transformation for count data, arc-sine transformation for percentages and/or natural log transformation for weight data) if these conditions are not met. If no transformation is found to allow parametric statistical analysis, non-parametric methods will be used.. Multiple comparison techniques for experiments with controls (e.g. Dunnett's Test or Steel's Many One Rank Test) will be used to determine if the toxicological endpoints observed within the sample test concentrations significantly differ from the control. Statistical significance will be set at an alpha of 0.05 for these assessments. These comparisons will be single-sided to determine if there is a significant adverse effect due to exposure to the test samples. These effects would be; a reduction in growth, a reduction in the production of offspring and/or a reduction in survival.

The intrinsic rate of population increase (r) will also be calculated for the *C. dubia* test results. This population statistic incorporates the survival rate, onset of reproduction and reproductive rate into a single parameter. The calculation of r employs the relationship presented below;

$$\sum l_x m_x e^{-rx} = 1$$

where x = a regular time interval
l_x = the probability of surviving to age x
m_x = represents the number of offspring per female of age x, hatched during the time interval x to x +1
r = intrinsic rate of population increase

The IC_{10} calculations will follow the guidelines outlined in USEPA (1989). A 95% confidence interval will be produced using either the bootstrap method described by USEPA (1989) or the Jackknife method as described in Sokal & Rolhf (1981).

Reporting of Results

The raw data and final draft of the report are reviewed by WCC's Quality Assurance Unit. A single copy of the draft report and a copy of the original raw data will be submitted to Tinker for review. Upon acceptance by Tinker, a signed original report along with the original raw data will be submitted to Tinker. The report will include, but not be limited to, the following information:

- objectives and procedures of the study including any changes from the original protocol
- initiation and completion dates of the definitive test, project number, name and address of the test facility
- signatures of appropriate laboratory individuals associated with the study
- information on the sample as provided on the sample label along with any information provided by Tinker, the date of its receipt and its storage conditions at WCC
- scientific name of the test organism, source, age and percent mortality of the population 48 hours prior to testing
- exposure system description, test design (e.g., number of treatment levels and replicates), dimensions of the test vessels and depth and volume of the test solution
- summary of the data analyses, mortality observations and water quality measurements

- authenticated copies, or originals if required, of the original data collection bench sheets on which the survival/mortality observations were made, the water chemistry analysis performed and statistical interpretation of the results

- reference to the statistical methods used in the data analyses, the LC_{50} concentrations with 95% confidence limits (if possible), and the NOAEC concentration

- results of the most recent reference toxicity assay with the test species under similar test conditions and how the results compare to the running record of reference toxicity assays

- deviations from the study protocol and any unusual observations that may have impacted the study results

- the locations where any specimens, raw data, and the final report are to be stored

SUMMARY OF RECOMMENDED TOXICITY TEST CONDITIONS FOR CLADOCERAN (CERIODAPHNIA DUBIA) SURVIVAL TEST A 48 HOUR STATIC - ACUTE TEST

1.	Test type	Static
2.	Temperature (°C)	25 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	30 mL per replicate
7.	Test solution volume	15-20 mL per replicate
8.	Renewal of water sample	None
9.	Age of test organisms	Less then or equal to 24 hours
10.	No. larvae per test chamber	5
11.	No. replicate chambers per sample	4
12.	No. larvae per sample concentration	20
13.	Feeding regime	None
14.	Aeration	D.O. concentration is to be maintained above 60% of saturation.

15.	Cleaning	None
16.	Effect measured	Survival
17.	Minimum acceptable control survival	90%

SUMMARY OF RECOMMENDED TOXICITY TEST CONDITIONS FOR CLADOCERAN (CERIODAPHNIA DUBIA) SURVIVAL, REPRODUCTION & GROWTH TEST

A 7 DAY STATIC-RENEWAL - CHRONIC TEST

1.	Test type	Static-renewal
2.	Temperature (°C)	25 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	30 mL per replicate
7.	Test solution volume	15-20 mL per replicate
8.	Renewal of water sample	Daily
9.	Age of test organisms	Less then or equal to 24 hours
10.	No. larvae per test chamber	1
11.	No. replicate chambers per sample	10
12.	No. larvae per sample concentration	10
13.	Feeding regime	Daily YCT & *S. capricornutum*

14.	Aeration	D.O. concentration is to be maintained above 60% of saturation.
15.	Cleaning	None
16.	Effect measured	Survival, reproduction and growth
17.	Minimum acceptable control survival	80%
18.	Minimum acceptable control reproduction	15 per female

REFERENCES

American Public Health Association, American Water Works Association, and the Water Pollution Control Federation, 1989. Standard Methods for the Examination of Water and Wastewater. 17th Ed. American Public Health Association, Washington, DC

Daniels, R.E. and J.D. Allan. 1981. Life table evaluation of chronic exposure to a pesticide. Cna. J. Fish. Aq. Sci. 38:485-494.

United States Environmental Protection Agency. 1989. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Marine and Estuarine Organisms. EPA/600/4-87/028.

Sokal, R.R. and F.J. Rolhf. 1981. Biometry: The Principles and Practice of Statistics in Biological Research. Second Edition. W.H. Freeman & Co., San Francisco, CA.

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *CERIODAPHNIA DUBIA*

TO BE COMPLETED BY THE STUDY SPONSOR:

SPONSOR: _____

_____

_____

_____ PHONE: _____

PROJECT NUMBER: _____

TEST MATERIAL: Field collected surface water samples

TEST SPECIES: *Ceriodaphnia dubia*

PROTOCOL APPROVAL:

Sponsor's Representative: _____
Typed Name/Title

_____
Signature Date

TO BE COMPLETED BY WCC PERSONNEL PRIOR TO TEST INITIATION:

WCC Study Director: _____
Typed Name/Title

_____
Signature Date

Proposed Test Dates: initiation: _____ completion: _____

Comments/Notes:

_____

_____

_____

SOP-A9

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SEDIMENTS TO *Lumbriculus variegatus*

INTRODUCTION

Purpose and Background

This protocol describes a two step toxicity assessment of sediments collected from Soldier Creek to *Lumbriculus variegatus*. The first step is an initial acute toxicity test and the second is a chronic toxicity assessment. The objectives of the initial acute toxicity test is to determine 1) if the sample is capable of producing an acute toxic response (specifically lethality) and if so 2) define the test concentrations for the chronic toxicity assessment. Specific toxicological endpoints include;

- Lethality (acute and chronic toxicity tests)
- Growth (chronic toxicity test only)

Lethality will be represented by the LC_{50}, that concentration calculated to produce 50% mortality in the population of test animals. Effects on growth will be represented by the NOAEC (no observed adverse effect concentration) and the LOAEC (lowest observed adverse effect concentration). These endpoints are determined statistically at a significance (alpha) level of 0.05. The NOAEC is the highest test concentration at which there is no statistically significant adverse effect on survival or growth. The LOAEC is the lowest test concentration at which a statistically significant adverse effect on survival and/or growth occurred. The specifics of the calculations for these endpoints are presented in the statistical section of this protocol.

Methods and Materials

TEST ORGANISMS

1. Species. *Lumbriculus variegatus* will be used to test the toxicity of sediment samples for this protocol. The test animals will be adults for both the acute toxicity test and for the chronic toxicity assessment. Forty animals will be exposed to each test dilution and

control in 4 replicate test vessels for the acute toxicity assessment and one to five grams of *L. variegatus* in four replicate test vessels for the chronic toxicity test.

2. Origin and Acclimation. Cultures of *L. variegatus* are maintained at WCC's Environmental Toxicology Laboratory in Franklin, TN. The culture techniques follow procedures in accordance with WCC SOP 035. Mass cultures consist of animals grown within aquaria provided with recirculating culture media. The culture media consists of moderately hard reconstituted fresh water (USEPA, 1991) and trout chow starter (#1). The *L. variegatus* are routinely cultured at 23° C under 50 to 100 foot candles and a photoperiod of 16 hours and 8 hours dark.

3. Reference Toxicity Testing. The *L. variegatus* cultured, in house, are subjected to a toxicity assay with a reference toxicant; $CdCl_2$ to determine the sensitivity of any batch of animals used in toxicity testing.

TEST DESIGN AND PHYSICAL SYSTEM

1. Test Vessels. Acute toxicity assessments will use 300 ml test vessels. Each test vessel will contain 100 ml (cm^3) of test sediment sample dilutions or control sediment. Each container will also be filled will 175 ml of laboratory water. There will be four test vessels for each test dilution and control for the acute toxicity tests. Each vessel will be randomly assigned to a grid location within the test chamber; an environmentally controlled chamber. Chronic toxicity testing will use 4 to 6 liter test vessels. There will be four replicate test vessels for each test dilution and control. Test vessels will be filled with at least 1 liter of sediment and water. All test vessels and glassware used in the preparation of test dilutions will be cleaned following the outline provided in USEPA, 1991 and WCC SOP 010. All vessels will be covered to reduce evaporation and receive 2 test vessel volumes of water over a 24 hour period.

2. Test Design-Acute Toxicity Test. The test will consist of at least 5 sediment dilutions and a dilution sediment control. The sample dilutions will follow a geometric progression and are preliminarily set at 100, 50, 25, 12.5, and 6.25%. If after one to five hours, 100% mortality is observed in the 100% and/or 50% sample dilutions, additional sample dilutions may be added, such as 3.1%, 1.5% or 0.75%.

3. Dilution Sediment and Overlying Water. Dilution sediment will be either quartz sand, sterilized field collected sediment or a combination of the two. The control (dilution) sediment will be made to resemble the texture (grain size distribution) of the test sediment, based on visual observations. Overlying water will be reconstituted fresh water similar to that of the overlying water sampled, based on water hardness and alkalinity. The source of the water used to prepare synthetic fresh waters is laboratory tap water that is coarse-filtered, activated carbon filtered, UV sterilized, reverse osmosis filtered (Millipore 0-60®) and Super-Q filtered (Millipore Super-Q filter®) and subsequently glass distilled. This system provides a quality of water that exceeds ASTM/CAP/NCCLS standards for Type 1 reagent grade water. Dilution water will be prepared in a minimum of 19L batches and stored in high density polyethylene (HDPE) containers. It will be aerated to bring the pH and dissolved gases into equilibrium with the atmosphere. Total hardness, total alkalinity, pH, dissolved oxygen and specific conductance are measured on each batch of water and will be within 15% of the overlying water sampled within the Soldier Creek sediment samples.

4. Test Temperature. The test temperature will be 23±1°C. Temperature will be maintained by placing test vessels in a temperature-controlled environmental chamber.

5. Lighting. Coolwhite fluorescent lamps are used to illuminate the testing area. Light intensity at the surface of the test vessel will be between 50 and 100 foot-candles. The photoperiod will be 16 hour light and 8 hours dark.

6. Test Duration. Each acute toxicity test will be a 96 hour exposure and each chronic toxicity assessment will encompass a 28 day exposure period.

TEST MATERIAL

1. Receipt and Documentation. Upon arrival at WCC, the package containing the test material will be inspected for damage. The container of sediment sample will be removed from the shipping package and inspected for damage. Information located on the sample label will be transcribed into a WCC laboratory data log book. This data form will be

archived and placed in the study report at the completion of the study. Sample description, date, time, temperature, and condition will be recorded as well.

2. Initial Overlying Water Chemistry Measurements. The temperature of the sample will be measured as soon as it is received with a calibrated thermometer and recorded. Once a subsample of the overlying water is at experimental temperature, the pH, specific conductance, dissolved oxygen (DO), total alkalinity, and total EDTA hardness will be measured. The pH, conductivity, and DO will be measured with calibrated meters, while total alkalinity and hardness will be measured using colormetric methods described by APHA (1989) and WCC SOPs 114 & 115.

TEST PROCEDURE-ACUTE TOXICITY SCREEN

1. Prior to Test Initiation. Prior to the start of the test, adult *L. variegatus* will be removed from the cultures and placed in a separate vessel containing culture water. If the overlying water hardness and/or alkalinity is outside 15% of the culture water the collected test organisms will be tempered to the hardness/alkalinity of the overlying water. This will be accomplished by progressive additions to or dilution of the culture water.

2. Test Set-up. A sample of the sediment will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. Overlying water, prepared from laboratory water will be carefully decanted into the test vessels so as not to disturb the sediment. The pH, dissolved oxygen content and conductivity of these waters will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 40% of the saturation point, the test solution will be aerated to such a level.

3. Random Assignment of the Test Animals. A total of greater than 240 neonates will be pooled into a single vessel containing culture media. From this vessel groups of five animals will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group the five animals will be placed in a transfer vessel containing overlying water. The assignments and transfers will continue until each group has a complement of 10 animals. From the transfer vessel for each test dilution and control, groups of five neonates will be randomly assigned to a replicate until each

replicate has a total of ten animals. This procedure satisfies a stratified random assignment.

4. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chamber.

5. Biological Data. At 24, 48, 72 and 96 hours of exposure, observations for mortality and abnormal effects will be made. Mortality is defined as no body movement upon gentle prodding. Any dead *L. variegatus* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity.

6. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer in a surrogate test vessel filled with dilution water. Dissolved oxygen will also be measured every 24 hours within at least one replicate of each test concentration and control. Any notable characteristics of the test solutions (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations. At the termination of the test, pH and conductivity will be made in addition to the daily measurements.

TEST PROCEDURE-CHRONIC TOXICITY TESTING

1. Test Set-up. A sample of the sediment will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. The pH, dissolved oxygen content and conductivity of the overlying water will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 40% of the saturation point, the water will be aerated to such a level. The individual test chambers will then be randomly distributed to spacial grid locations based on a random number table (e.g. Rolhf, 1981).

3. Random Assignment of the Test Animals. A total of greater than 150 gms of worms will be pooled into a single vessel containing culture media. From this vessel groups of 1 to 5 gms will be randomly assigned to a test dilution or control group. Once assigned to a

test dilution or control group the animals will be placed in a transfer vessel containing overlying water. The assignments and transfers will continue until each group has a complement of 5 to 25 gms. From the transfer vessel for each test dilution and control, groups of 1 to 5 gms will be randomly assigned to a replicate until each

replicate has a total of 1 to 5 gms of worms. This procedure satisfies a stratified random assignment.

3. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chamber.

4. Biological Data. Daily observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body after gentle prodding. Any dead *L. variegatus* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity.

5. Test Maintenance. Overlying water will be renewed on a daily basis a total of 2 L (2 volume replacements) will be exchanged. Intermittent flow of freshly prepared overlying water will be delivered to each exposure vessel.

6. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer in at least one replicate exposure vessel for each test concentration and control. Dissolved oxygen will also be measured in at least one test replicate on a daily basis. The overlying water pH and conductivity will be measured three times a week during the exposure period in at least one replicate of each test concentration and control. Each batch of water used as renewal water will be measured for dissolved oxygen, pH, conductivity, total alkalinity and hardness. At the termination of exposure, total alkalinity and hardness will be measured within at least one replicate of the highest sediment test concentration and a control exposure vessel. Any notable characteristics of the test sediments or overlying water (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations.

STATISTICAL METHODS

The LC_{50} will be calculated for those samples that were capable of producing greater than 50% mortality in the test organisms. The calculation will employ one or more of the following methods; probit transformation and subsequent regression analysis, the trimmed Spearman-Karber method or, the binomial probability method. The selection of the method will be based on the toxicity results. If two or more sample test concentrations result in partial mortality, bracketing 50%, the probit method will be used. If partial mortality is observed in only one test concentration, the Trimmed Spearman-Karber method will be used. This method will also be used if the concentration to effect relationship is not monotonic in character. The binomial probability method, an interpolation with a bionomially derived confidence interval, will be used if only 100% and 0% mortality rates are observed within the test concentrations.

Sublethal effects will be assessed using parametric statistical techniques (e.g. analysis of variance), if the data is found to be normally distributed and if the test groups and control(s) exhibit homogeneity of variances. The data may be transformed (e.g. square root transformation for count data, arc-sine transformation for percentages and/or natural log transformation for weight data) if these conditions are not met. If no transformation is found to allow parametric statistical analysis, non-parametric methods will be used.. Multiple comparison techniques for experiments with controls (e.g. Dunnett's Test or Steel's Many One Rank Test) will be used to determine if the toxicological endpoints observed within the sample test concentrations significantly differ from control. Statistical significance will be set at an alpha of 0.05 for these assessments. These comparisons will be single-sided to determine if there is a significant adverse effect due to exposure to the test samples. These effects would be; a reduction in growth and/or a reduction in survival.

Reporting of Results

The raw data and final draft of the report are reviewed by WCC's Quality Assurance Unit. A single copy of the draft report and a copy of the original raw data will be submitted to Tinker for review. Upon acceptance by Tinker, a signed original report along with the original raw data will be submitted to Tinker. The report will include, but not be limited to, the following information:

- objectives and procedures of the study including any changes from the original protocol

- initiation and completion dates of the definitive test, project number, name and address of the test facility

- signatures of appropriate laboratory individuals associated with the study

- information on the sample as provided on the sample label along with any information provided by Tinker, the date of its receipt and its storage conditions at WCC

- scientific name of the test organism, source, age and percent mortality of the population 48 hours prior to testing

- exposure system description, test design (e.g., number of treatment levels and replicates), dimensions of the test vessels and depth and volume of the test solution

- summary of the data analyses, mortality observations and water quality measurements

- authenticated copies, or originals if required, of the original data collection bench sheets on which the survival/mortality observations were made, the water chemistry analysis performed and statistical interpretation of the results

- reference to the statistical methods used in the data analyses, the LC_{50} concentrations with 95% confidence limits (if possible), and the NOAEC concentration

- results of the most recent reference toxicity assay with the test species under similar test conditions and how the results compare to the running record of reference toxicity assays

- deviations from the study protocol and any unusual observations that may have impacted the study results

- the locations where any specimens, raw data, and the final report are to be stored

SUMMARY OF RECOMMENDED SEDIMENT TOXICITY TEST CONDITIONS FOR THE AMPHIPOD (Lumbriculus variegatus) SURVIVAL TEST A 96 HOUR STATIC-RENEWAL ACUTE TEST

1.	Test type	Static
2.	Temperature (°C)	23 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	0.3 liter
7.	Test solution volume	100 cm^3 sediment, 175 ml water per replicate
8.	Renewal of overlying water	2 test vessel volumes per 24 hours
9.	Age of test organisms	Adults
10.	No. larvae per test chamber	10
11.	No. replicate chambers per sediment sample	4
12.	No. larvae per sediment sample concentration	40
13.	Feeding regime	None

14.	Aeration	D.O. concentration is to be maintained above 40% of saturation. Aeration rate should not exceed 100 bubble a minute.
15.	Cleaning	None
16.	Effect measured	Survival
17.	Minimum acceptable control survival	80%

SUMMARY OF RECOMMENDED SEDIMENT TOXICITY TEST CONDITIONS FOR THE AMPHIPOD (Lumbriculus variegatus) SURVIVAL & GROWTH TEST A 28 DAY STATIC-RENEWAL - CHRONIC TEST

1.	Test type	Static-renewal
2.	Temperature (°C)	23 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	4 - 6 liter
7.	Test solution volume	1 L sediment, 1 L water per replicate (minimum)
8.	Renewal of overlying water	Two volume replacements per 24 hours
9.	Age of test organisms	Adults

10.	No. larvae per test chamber	1 to 5 grams
11.	No. replicate chambers per sediment sample	4
12.	No. larvae per sediment sample concentration	4 to 20 grams
13.	Feeding regime	None
14.	Aeration	D.O. concentration is to be maintained above 40% of saturation. Aeration rate should not exceed 100 bubble a minute.
15.	Cleaning	None
16.	Effect measured	Survival, growth, reproduction
17.	Minimum acceptable control survival	80%

References

American Public Health Association, American Water Works Association and the Water Pollution Control Federation. 1989. Standard Methods for the Examination of Water and Wastewater. 17th Ed. American Public Health Association, Washington, DC.

American Society for Testing and Materials. 1992. Standard Guide for Conducting Sediment Toxicity Tests with Freshwater Invertebrates. E-1383-92. ASTM E-47.03, ASTM, Philadelphia, PA.

American Society for Testing and Materials. 1994. Proposed Standard Test Methods for Measuring the Toxicity and Bioaccumulation of Sediment-Associated Contaminants with Freshwater Invertebrates. Draft 1/7/94. E-47.01

American Society for Testing and Materials. 1992. New Standard Guide for Collection, Storage, Characterization, and Manipulation of Sediments for Toxicological Testing. E-1391-90. ASTM 47.03, ASTM Philadelphia, PA.

Busacker, G., D. Anderson, A. Gibson, & T. Dillon. 1990. "Bioassessment Methodologies for the Regulatory Testing of Freshwater Dredged Material" Miscellaneous Paper EL-90-7, US Army Engineer District, St. Paul, St. Paul, MN, and US Army Engineer Waterways Experiment Station, Vicksburg, MS.

United States Environmental Protection Agency. 1991. Sediment Toxicity Evaluation: Phase I (Characterization), Phase II (Identification) and Phase III (Conformation) Modifications of Effluent Procedures. DRAFT. EPA/600/6-91/007.

United States Environmental Protection Agency and the US Army Corps of Engineers. 1990. Evaluation of Dredged Material Proposed for Ocean Disposal: Testing Manual. EPA-503/8-91/001.

United States Environmental Protection Agency. 1990. Manual for the Evaluation of Laboratories Performing Aquatic Toxicity Tests. EPA/600/4-90/031.

United States Environmental Protection Agency. 1989. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Marine and Estuarine Organisms. EPA/600/4-87/028.

Sokal, R.R. and F.J. Rolhf. 1981. Biometry: The Principles and Practice of Statistics in Biological Research. Second Edition. W.H. Freeman & Co., San Francisco, CA.

Thomas, N., J.O. Lamberson, and R.C. Swartz. 1992. Bulk sediment toxicity approach. Chapter 3 In *Sediment Classification Methods Compendium*. B. Baker & M. Kravitz, Ed.s, US Environmental Protection Agency, EPA 823-R-92-006.

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *Lumbriculus variegatus*

TO BE COMPLETED BY THE STUDY SPONSOR:

SPONSOR: _____

_____

_____

_____ PHONE: _____

PROJECT NUMBER: _____

TEST MATERIAL: Field collected sediment samples

TEST SPECIES: *Lumbriculus variegatus*

PROTOCOL APPROVAL:

Sponsor's Representative: _____
Typed Name/Title

_____
Signature Date

TO BE COMPLETED BY WCC PERSONNEL PRIOR TO TEST INITIATION:

WCC Study Director: _____
Typed Name/Title

_____
Signature Date

Proposed Test Dates: initiation: completion:

Comments/Notes:

SOP-A10

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *PIMEPHALES PROMELAS*

INTRODUCTION

SUMMARY AND OBJECTIVES

This protocol describes a two step toxicity assessment of surface water collected from Soldier Creek within the Tinker Airforce Base to *Pimephales promelas*. The first step is an initial acute toxicity test and the second is a chronic toxicity assessment. The objectives of the initial acute toxicity test is to determine 1) if the sample is capable of producing an acute toxic response (specifically lethality) and if so 2) define the test concentrations for the chronic toxicity assessment. Additionally, an effort will be made to determine if the toxicity changes over time, based on an aging of 96 hours.

Specific toxicological endpoints include;

- Lethality (acute and chronic toxicity tests)
- Growth (chronic toxicity test only)
- Acute to chronic toxicity ratio (acute lethality/chronic lethality)

Lethality will be represented by the LC_{50}, that concentration calculated to produce 50% mortality in the population of test animals. Effects on growth will be represented by the NOAEC (no observed adverse effect concentration) and the LOAEC (lowest observed adverse effect concentration). These endpoints are determined statistically at a significance (alpha) level of 0.05. The NOAEC is the highest test concentration at which there is no statistically significant adverse effect on survival or growth. The LOAEC is the lowest test concentration at which a statistically significant adverse effect on survival and/or growth occurred. The acute to chronic toxicity ratio is the ratio between the acute (96 hour) LC_{50} and the chronic (7 day) LC_{50}.

METHODS AND MATERIALS

TEST ORGANISMS

1. Species. *Pimephales promelas* will be used to test the toxicity of surface water samples for this protocol. The test animals will be juvenile, less than or equal to 14 days of age for acute toxicity assessment. Twenty animals will be exposed to each test dilution and control in 2 replicate test vessels for the acute toxicity assessment. Fifteen larvae, less than 24 hours of age will be exposed to each test dilution and control in 4 replicate test vessels for the chronic toxicity assessment.

2. Origin and Acclimation. *Pimephales promelas* were originally obtained from Aquatic Research Organisms in Hampton, NH. Cultures are maintained at WCC's Environmental Toxicology Laboratory in Franklin TN. The culture techniques follow procedures in accordance with WCC SOP 040. The *P. promelas* system consist of spawing aquaria as well as aquaria housing various ages from larvae/juvenile to adult maturation. The culture water used is moderately hard synthetic water prepared according to the guidelines set forth in EPA (1989). Fish are fed at a minimum of twice daily, *ad libitum*, during the work week. Feedings consist of a ration of Tetra-Min fish food and a ration of *Artemia*, either freshly hatched or frozen adults. To each aquaria is delivered recirculating freshwater, a minimum of 6 tank volumes over a 24 hour period, that has been biologically treated and passed through a gravel and bone carbon filtration system. The *P. promelas* are cultured at 22° C under four foot florescent blubs and a photoperiod of 16 hours light and 8 hours dark. If the WCC cultures do not prouduce enough *P. promelas* at the age needed, they will be obtained from Environmental Consulting and Testing, Inc. in Superior, WI.

3. Reference Toxicity Testing. On at least a monthly basis, the *P. promelas* cultured, in house, are subjected to a toxicity assay with a reference toxicant; NaCl. If greater than two tests are conducted per month, then reference toxicity tests are conducted on a biweekly basis. From this data, a cumulative - summation chart is kept on the successively produced LC_{50}'s. Juveniles are pooled from three different broods and are routinely used for toxicity assessments. If the reference toxicity results fall outside the upper or lower control values, juveniles from the same brood will be tested along-side a second test with juveniles from a different brood and the testing procedures reviewed for operator error. In this way it may be determined if there is a problem with the hatch from a particular pair, with the reference toxicant and/or the overall condition of the *P. promelas* cultures. Verification of a result outside acceptable limits will result in 1) evaluation of each test conducted with that batch of test organisms; 2) evaluation of the possible causes of increased or decreased sensitivity (eg., culture methods, food, disease); and 3) notification of all test sponsors for which tests were conducted with that batch of test organisms. Until such a time at which the outlying reference LC_{50} can explained or rejected, no further tests will be conducted with that batch of animals.

TEST DESIGN AND PHYSICAL SYSTEM

1. Test Vessels. Test vessels will be 250 ml polystyrene plastic cups filled to a minimum of 200 ml with surface water sample dilutions or control water. There will be two test vessels for each test dilution and control during the acute toxicity screening tests. The chronic toxicity tests will consist of 4 500-ml vessels holding 250 ml of solution per replicate. All test vessels and glassware used in the preparation of test dilutions will be cleaned following the outline provided in USEPA, 1991 and WCC SOP 010. All vessels will be covered to reduce evaporation.

2. Test Design-Acute Toxicity Test. The test will consist of at least 5 surface water

dilutions and a dilution water control. The sample dilutions will follow a geometric progression and are preliminarily set at 100, 50, 25, 12.5, and 6.25%. If after one to five hours, 100% mortality is observed in the 100% and/or 50% sample dilutions, additional sample dilutions may be added, such as 3.1%, 1.5% or 0.75%.

3. Dilution Water. Dilution water will be reconstituted fresh water similar to that of the surface water sampled, based on water hardness and alkalinity. The source of the water used to prepare synthetic fresh waters is laboratory tap water that is coarse-filtered, activated carbon filtered, UV sterilized, reverse osmosis filtered (Millipore 0-60®) and Super-Q filtered (Millipore Super-Q filter®) and subsequently glass distilled. This system provides a quality of water that exceeds ASTM/CAP/NCCLS standards for Type 1 reagent grade water. Dilution water will be prepared in a minimum of 19L batches and stored in high density polyethylene (HDPE) containers. It will be aerated to bring the pH and dissolved gases into equilibrium with the atmosphere. Total hardness, total alkalinity, pH, dissolved oxygen and specific conductance are measured on each batch of water and will be within 15% of the surface water sampled within the Soldier Creek water samples.

4. Test Temperature. The test temperature will be 25±1°C. Temperature will be maintained by placing test vessels in a temperature-controlled environmental chamber.

5. Lighting. Coolwhite fluorescent lamps are used to illuminate the testing area. Light intensity at the surface of the test vessel will be between 50 and 100 foot-candles. The photoperiod will be 16 hour light and 8 hours dark.

6. Test Duration. Each acute toxicity test will be a 96 hour exposure and each chronic toxicity assessment will encompass a 7 day exposure period.

TEST MATERIAL

1. Receipt and Documentation. Upon arrival at WCC, the package containing the test material will be inspected for damage. The container of surface water sample will be removed from the shipping package and inspected for damage. Information located on the sample label will be transcribed into a WCC bound laboratory data log book. This data form will be archived and placed in the study report at the completion of the study. Sample description, date, time, temperature, and condition will be recorded as well.

2. Initial Water Chemistry Measurements. The temperature of the surface water sample will be measured as soon as it is received, with a calibrated thermometer and recorded. Once a subsample is at experimental temperature, the pH, specific conductance, dissolved oxygen (DO), total alkalinity, and total EDTA hardness will be measured. The pH, conductivity, and DO will be measured with calibrated meters, while total alkalinity and hardness will be measured using colormetric methods described by APHA (1989) and WCC SOPs 114 & 115.

TEST PROCEDURE-ACUTE TOXICITY SCREEN

1. Prior to Test Initiation. As the eggs are laid they abhere to the underside of a PVC tile in the spawing aquaria. These tiles are checked on a daily basis. When eggs are discovered the tiles are removed from the spawing aquaria and place in a hatching aquaria. These are watched and notes are made as to when and approximatedly how many larvae are hatched. When the larvae are greater than 14 days of age the are placed in an aquaria to mature. This moving of the juveniles insures the test orgainsms are within the age requirements. The test organisms will be fed 2 hours prior to testing.

2. Test Set-up. A sample of the surface water will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. The pH, dissolved oxygen content and conductivity of these dilutions will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 60% of air saturation, the test solution will be aerated to such a level.

3. Random Assignment of the Test Animals. A total of greater than 120 juvenile will be pooled into a single vessel containing culture media. From this vessel groups of five animals will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group the five animals will be placed in a transfer vessel containing the test dilution or control water. The assignments and transfers will continue until each group has a complement of 20 animals. From the transfer vessel for each test dilution and control, groups of five juveniles will be randomly assigned to a replicate until each replicate has a total of ten animals. This procedure satisfies a stratified random assignment and by using a transfer vessel reduces any transfer of culture media into the test solutions with the transfer of the test animals.

4. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chamber.

5. Biological Data. Daily during the 96 hours of exposure, observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body or appendages upon gentle prodding. Any dead *P. promelas* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity.

6. Test Maintenance. Test solutions will be renewed when the organisms have been exposed for 48 hours. Two hours prior to sample renewal 0.20 ml of concentrated *Artemia* nauplii are to be fed to each test concentration and control group. At least 100 ml of the old test solution will be placed in a surrogate vessel for water parameter measurements (see Water Quality Variable Measurement Section). The freshly prepared test solutions will be gently

added to the original test vessels, approximately 100 ml, to replace that solution removed for water parameter measurement. Water quality parameters in both the old and new test solutions will be measured and recorded.

7. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer immersed in a surrogate test vessel filled with dilution water but without animals or effluent. Any notable characteristics of the test solutions (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations. At the termination of the test pH, conductivity, and dissolved oxygen measurements will be made in the effluent dilutions and control. At the termination of the test, pH, conductivity, and dissolved oxygen measurements will be made, at a minimum, in the lowest and highest test concentrations.

TEST PROCEDURE-CHRONIC TOXICITY TESTING

1. Prior to Test Initiation. As the eggs are laid they abhere to the underside of a PVC tile in the spawing aquaria. These tiles are checked on a daily basis. When eggs are discovered the tiles are removed from the spawing aquaria and place in a hatching aquaria. These are watched and notes are made as to when and approximatedly how many larvae are hatched. When the larvae are greater than 14 days of age the are placed in an aquaria to mature. This moving of the juveniles insures the test orgainsms are within the age requirements.

2. Test Set-up. A sample of the surface water will be brought to the test temperature and used to prepare the exposure concentrations. Test concentrations will be prepared on a volume/volume basis and distributed to the replicate test chambers. The pH, dissolved oxygen content and conductivity of these dilutions will be measured prior to the addition of the test animals. If the dissolved oxygen level is below 60% of the saturation point, the test solution will be aerated to such a level. The individual test chambers will then be labeled A through D.

3. Random Assignment of the Test Animals. A total of greater than 360 larvae will be pooled into a single vessel containing culture media. From this vessel five animals at a time will be randomly assigned to a test dilution or control group. Once assigned to a test dilution or control group each group of five will be placed in a transfer vessel containing the test dilution or control water. The assignments and transfers will continue until each group has a complement of 60 animals. From the transfer vessel for each test dilution and control, groups of 15 larvae will be randomly assigned to a replicate until each replicate has been filled. The total number of replicates will equal sixty per test concentration and control. This procedure satisfies a stratified random assignment and by using a transfer vessel reduces any transfer of culture media into the test solutions with the transfer of the test animals.

4. Test Initiation. The test will be considered initiated with the completion of the distribution of the test organisms to their test chambers.

5. Biological Data. Daily observations for mortality and abnormal effects will be made. Mortality is defined as no movement of body or appendages upon gentle prodding. Any dead *P. promelas* will be removed at each observation time. Abnormal effects include but are not limited to orientation of the animals in the test vessels, coloration changes, surfacing behavior, and locomotor activity.

6. Test Maintenance. Exposure solutions will be renewed on a daily basis. Food, 0.15 ml, is added to the test vessels twice daily, once in the morning and once just after water renewal. Before the sample is renewed, uneaten and dead brine shrimp are removed by siphon. At least 125 ml of the old test solution will be placed in a surrogate vessel for water parameter measurements (see Water Quality Variable Measurement Section). The freshly prepared test solutions will be gently added to the original test vessels, approximately 125 ml, to replace that solution removed for water parameter measurement. Water quality parameters in both the old and new test solutions will be measured and recorded.

7. Measurement of Water Quality Variables. Temperature will be measured every 24 hours with a calibrated thermometer immersed in a surrogate test vessel filled with dilution water but without animals or surface water sample. Any notable characteristics of the test solutions (e.g., presence of precipitates, solution cloudiness, etc.) will be noted along with the daily observations. At the termination of the test pH, conductivity, and dissolved oxygen measurements will be made in the effluent dilutions and control. At each water renewal and at the termination of the test, pH, conductivity, and dissolved oxygen measurements will be made, at a minimum, in the lowest and highest test concentrations.

STATISTICAL METHODS

The LC_{50} will be calculated for those samples that produced greater than 50% mortality in the test organisms. The calculation will employ one or more of the following methods; probit transformation and subsequent regression analysis, the trimmed Spearman-Karber method or, the binomial probability method. The selection of the method will be based on the toxicity results. If two or more sample test concentrations result in partial mortality, bracketing 50%, the probit method will be used. If partial mortality is observed in only one test concentration, the Trimmed Spearman-Karber method will be used. This method will also be used if the concentration to effect relationship is not monotonic in character. The binomial probability method, an interpolation with a bionomially derived confidence interval, will be used if only 100% and 0% mortality rates are observed within the test concentrations.

Sublethal effects will be assessed using parametric statistical techniques (e.g. analysis of variance), if the data is found to be normally distributed and if the test groups and control(s)

exhibit homogeneity of variances. The data may be transformed (e.g. square root transformation for count data, arc-sine transformation for percentages and/or natural log transformation for weight data) if these conditions are not met. If no transformation is found to allow parametric statistical analysis, non-parametric methods will be used.. Multiple comparison techniques for experiments with controls (e.g. Dunnett's Test or Steel's Many One Rank Test) will be used to determine if the toxicological endpoints observed within the sample test concentrations significantly differ from control. Statistical significance will be set at an alpha of 0.05 for these assessments. These comparisons will be single-sided to determine if there is a significant adverse effect due to exposure to the test samples. These effects would be; a reduction in growth and/or a reduction in survival.

REPORTING OF RESULTS

The raw data and final draft of the report are reviewed by WCC's Quality Assurance Unit. A single copy of the draft report and a copy of the original raw data will be submitted to the Sponsor for review. Upon acceptance by the Sponsor, a signed original report along with the original raw data will be submitted to the Sponsor. The report will include, but not be limited to, the following information.

- Objectives and procedures of the study including any changes from the original protocol.
- Initiation and completion dates of the definitive test, project number, name and address of the test facility.
- Signatures of appropriate laboratory individuals associated with the study.
- Information on the sample as provided on the sample label along with any information provided by the Sponsor, the date of its receipt and its storage conditions at WCC.
- Scientific name of the test organism, source, age and percent mortality of the population 48 hours prior to testing.
- Exposure system description, test design (e.g., number of treatment levels and replicates), dimensions of the test vessels and depth and volume of the test solution.
- Summary of the data analyses, mortality observations and water quality measurements. Authenticated copies, or originals if required, of the original data collection bench sheets on which the survival / mortality observations were made, the water chemistry analysis performed and statistical interpretation of the results.

- Reference to the statistical methods used in the data analyses, the LC_{50} concentrations with 95% confidence limits (if possible), and the NOAEC concentration.

- Results of the most recent reference toxicity assay with the test species under similar test conditions and how the results compare to the running record of reference toxicity assays.

- Deviations from the study protocol and any unusual observations that may have impacted the study results.

- The locations where any specimens, raw data, and the final report are to be stored.

SUMMARY OF RECOMMENDED TOXICITY TEST CONDITIONS FOR CLADOCERAN (Pimephales promelas) SURVIVAL TEST A 48 HOUR STATIC - ACUTE TEST

1.	Test type	Static
2.	Temperature (°C)	25 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	250 mL per replicate
7.	Test solution volume	200 mL per replicate
8.	Renewal of water sample	None
9.	Age of test organisms	1 - 14 days: 24 hour range in age
10.	No. larvae per test chamber	10
11.	No. replicate chambers per sample	2
12.	No. larvae per sample concentration	20
13.	Feeding regime	0.2 ml of concentrate *Artemia* nauplii 2 hr prior to 48 hr test solution renewal
14.	Aeration	D.O. concentration is to be maintained above 60% of saturation.
15.	Cleaning	None
16.	Effect measured	Survival
17.	Minimum aceptable control survival	90%

SUMMARY OF RECOMMENDED TOXICITY TEST CONDITIONS FOR CLADOCERAN (Pimephales promelas) SURVIVAL, REPRODUCTION & GROWTH TEST
A 7 DAY STATIC-RENWAL - CHRONIC TEST

1.	Test type	Static-renewal
2.	Temperature (°C)	25 +/- 1°C
3.	Light quality	Ambient laboratory illumination
4.	Light intensity	10 - 20 uE/m^2 -sec
5.	Photoperiod	16 h light, 8 h darkness
6.	Test chamber size	500 mL per replicate
7.	Test solution volume	250 mL per replicate
8.	Renewal of water sample	Daily
9.	Age of test organisms	Less then or equal to 24 hours
10.	No. larvae per test chamber	15
11.	No. replicate chambers per sample	4
12.	No. larvae per sample concentration	60
13.	Feeding regime	Daily 0.15 ml newly hatched brine shrimp
14.	Aeration	D.O. concentration is to be maintained above 60% of saturation.
15.	Cleaning	Siphon daily
16.	Effect measured	Survival and growth
17.	Minimum aceptable control survival	80%

REFERENCES

American Public Health Association, American Water Works Association, and the Water Pollution Control Federation, 1989. Standard Methods for the Examination of Water and Wastewater. 17th Ed. American Public Health Association, Washington, DC

U.S. Environmental Protection Agency. 1989. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Marine and Estuarine Organisms. EPA/600/4-87/028.

STATIC & STATIC-RENEWAL TOXICITY TEST PROCEDURES FOR DETERMINING THE TOXICITY OF SOLDIER CREEK SURFACE WATERS TO *Pimephales promelas*

TO BE COMPLETED BY THE STUDY SPONSOR:

SPONSOR: _____

_____

_____

_____ PHONE: _____

PROJECT NUMBER: _____

TEST MATERIAL: Field collected surface water samples

TEST SPECIES: *Pimephales promelas*

PROTOCOL APPROVAL:

Sponsor's Representative: _____
Typed Name/Title

_____
Signature Date

TO BE COMPLETED BY WCC PERSONNEL PRIOR TO TEST INITIATION:

WCC Study Director: _____
Typed Name/Title

_____
Signature Date

Proposed Test Dates: initiation: _____ completion: _____

Comments/Notes:

_____

_____

APPENDIX B

ANALYTICAL METHODS

Rocky Mountain
Analytical Laboratory

Enseco

March 23, 1994

Ms. Daphne Nickich
Woodward Clyde Consultants
3000 Tower Drive, Suite 466
Del City, Oklahoma 73115-3430
405 677-2001

Regarding: Requested method detection limit information

Dear Ms. Nickich:

This letter is intended to provide the information requested during our phone conversation on March 16th. Please contact me at 303-421-6611 if you have any questions concerning this matter.

Method Detection Limits

A majority of RMAL's method detection limit (MDL) studies are being updated at this writing. The value provided reflect current values prior to the updates.

A copy of RMAL's current 8240 method detection limit study is attached.

RMAL's current MDL for cyanide is 0.0099 mg/L in waters, 0.5 mg/kg in soil.

For the ICP/MS metals we have current Instrument detection limits (IDL) instead of MDLs. They are:

Cadmium	0.05 ug/L
Copper	0.06 ug/L
Lead	0.04 ug/L
Silver	0.03 ug/L

RMAL can report Benzoic Acid by method 8270. The current MDL is 44 ug/L in water, 1500 ug/kg in soil.

It is important to note that RMAL uses a "reporting limit" for reporting analytical results that is typically 2 to 10 times higher than the MDL.

Enseco
4955 Yarrow Street
Arvada, Colorado 80002
303/421-6611 Fax: 303/431-7171

IRPIMS Deliverable

RMAL can provide the laboratory portion of the IRPIMS deliverables in a fixed length format ASCII file as specified in the "IRPIMS Data Loading Handbook", version 2.2, January 1991. The specific files that pertain to laboratory information and can be provided by RMAL are BCHTEST and BCHRES.

Please let me know if I can provide you with any additional information.

Best Regards,

Mark L. Dymerski
Program Manager
Enseco-RMAL

Attachments

Method 8240 - MDL Enseco - RMAL 9/92	water mdl ug/L	soil mdl ug/kg
Dichlorodifluoromethane	0.73	0.73
Chloromethane	0.58	0.58
Vinyl Chloride	0.42	0.42
Bromomethane	0.4	0.4
Chloroethane	1.02	1.02
Dichlorofluoromethane	0.44	0.44
Trichlorofluoromethane	0.37	0.37
1,1-Dichloroethene	0.59	0.59
Acrolein	7	7
Iodomethane	0.71	0.71
Carbon Disulfide	0.8	0.8
Trichlorotrifluoroethane	0.63	0.63
Acetone	3.9	3.9
Methylene Chloride	0.25	0.25
t-1,2-Dichloroethene	0.55	0.55
Acrylonitrile	4.76	4.76
tert-Butyl methyl ether	0.53	0.53
Hexane	0.62	0.62
1,1-Dichloroethane	0.38	0.38
cis-1,2-Dichloroethene	0.44	0.44
1,2-dichloroethene (Total)	0.92	0.92
2-Butanone	2.17	2.17
Chloroform	0.2	0.2
1,2-Dichloroethane	0.35	0.35
Dibromomethane	0.27	0.27
Vinyl Acetate	0.72	0.72
1,1,1-Trichloroethane	0.29	0.29
Carbon Tetrachloride	0.3	0.3
Benzene	0.2	0.2
Trichloroethene	0.25	0.25
1,2-Dichloropropane	0.32	0.32
Bromodichloromethane	0.21	0.21
2-Chloroethyl vinyl ether	5.44	5.44
cis-1,3-Dichloropropene	0.7	0.7
trans-1,3-Dichloropropene	0.25	0.25
1,1,2-Trichloroethane	0.51	0.51
Chlorodibromomethane	0.35	0.35
1,2-Dibromoethane	1.21	1.21
Bromoform	0.56	0.56
1,2,3-Trichloropropane	1.71	1.71
Toluene	0.33	0.33
4-Methyl-2-pentanone	1.18	1.18
Tetrachloroethene	0.21	0.21
Ethylmethacrylate	1.71	1.71
2-Hexanone	1.23	1.23
Chlorobenzene	0.19	0.19
Ethylbenzene	0.18	0.18
Xylene (total)	0.7	0.7
Styrene	0.19	0.19
1,1,2,2-Tetrachloroethane	0.87	0.87
m-Dichlorobenzene	0.46	0.46
p-Dichlorobenzene	0.43	0.43
o-Dichlorobenzene	0.54	0.54

Rocky Mountain
Analytical Laboratory

Enseco
A Corning Company

December 29, 1993

Ms. Daphne Nickich
Woodward Clyde Consultants
3000 Tower Drive, Suite 466
Del City, Oklahoma 73115-3430
405 677-2001

Regarding: Tinker AFB QA Issues

Dear Ms. Nickich:

Please find enclosed the Quality Assurance information requested. Included are a copy of Enseco's current Quality Assurance Program Plan and several tables including the Rocky Mountain Analytical Laboratory's (RMAL) reporting limits for the requested test methods. There were some exceptions to these specifications that were discussed with Charles Johnson of your office earlier this month. These issues are noted on the attached sheet following this letter.

We are looking forward to working with Woodward-Clyde on this project. Please contact me at 303 421-6611 if you have any questions concerning this matter.

Sincerely,

Mark L. Dymerski
Program Manager
Enseco-RMAL

Attachments

RECEIVED
JAN 03 1994

Enseco Incorporated
4955 Yarrow Street
Arvada, Colorado 80002
303/421-6611 Fax: 303/431-7171

Clarifications/Additional Specifications for Tinker AFB

Target Analyte Lists

The target analyte lists and reporting limit requirements for this program were faxed to RMAL on December 8, 1993.

Method 8240 - Four analytes appear to be mis-spelled or mis-named on the tables faxed 12/8/93. The analytes RMAL can perform and believe are intended are listed next to the requested analyte below.

requested analyte	RMAL proposed analyte
ACRYLONITRITE	Acrylonitrile
1,4-DICHLORO-2-BUTANE	trans-1,4-Dichloro-2-butene
1,1-DICHLOROETHANE (listed twice)	1,1-Dichloroethene
TRANS-1,2-DI-CHLOROETHANE	1,2-Dichloroethene (total of cis and trans isomers)
LODOMETHANE	Iodomethane

Due to the availability of standards, stability of the analyte in water, or the analytes poor response by the requested method, RMAL can not calibrate instrumentation for the following analytes. RMAL will search for these analytes in either the TIC results or by mass chromatographic search upon request.

Method 8240 - 2-Chloroethyl vinyl ether, and Ethanol

Method 8270 - Dibenz(A,J)acridine

Reporting Limits

RMAL's standard reporting limits are attached.

RMAL proposes analyzing for Thallium by graphite furnace in order to detect this analyte at the requested level.

RMAL's reporting limits are higher than the requested level for the following analytes. RMAL will report results detected above the requested limit. Where this value is less than RMAL's reporting limit a "J" qualifier will be applied.

Method 6010 - Iron and Lead

Method 8270 - 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 3,3-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, pentachlorophenol, 2,4,5-Trichlorophenol

Method 8240 - Acrolein, Acrylonitrile, Benzene, Carbon Disulfide, Carbon tetrachloride, Dichlorofluoromethane, 1,1-Dichloroethene, Ethyl methacrylate, Tetrachloroethane, Trichloroethane

07 DEC 93

Aromatic Volatile Organics

8020

Component	Reporting Limit (ug/L)
Benzene	0.50
Toluene	0.50
Chlorobenzene	0.50
Ethylbenzene	0.50
Xylenes (total)	0.50
1,3-Dichlorobenzene	0.50
1,4-Dichlorobenzene	0.50
1,2-Dichlorobenzene	0.50

Volatile Organics^Appendix IX List

8240

Component	Reporting Limit (ug/kg)
Acetone	10
Acetonitrile	200
Acrolein	100
Acrylonitrile	100
Allyl chloride	10
Benzene	5.0
Bromodichloromethane	5.0
Bromoform	5.0
Bromomethane	10
2-Butanone (MEK)	10
Carbon disulfide	5.0
Carbon tetrachloride	5.0
Chlorobenzene	5.0
Chloroethane	10
Chloroform	5.0
Chloromethane	10
Chloroprene	5.0
Dibromochloromethane	5.0
1,2-Dibromo-3-chloro-^propane (DBCP)	10
1,2-Dibromoethane (EDB)	10
Dibromomethane	5.0
trans-1,4-Dichloro-^2-butene	5.0
Dichlorodifluoromethane	20
1,1-Dichloroethane	5.0
1,2-Dichloroethane	5.0
1,1-Dichloroethene	5.0
1,2-Dichloroethene ^(total)	5.0
1,2-Dichloropropane	5.0
cis-1,3-Dichloropropene	5.0
trans-1,3-Dichloropropene	5.0
1,4-Dioxane	500
Ethylbenzene	5.0
Ethyl methacrylate	20
2-Hexanone	10
Iodomethane	5.0
Isobutanol	200
Methacrylonitrile	5.0
Methylene chloride	5.0
Methyl methacrylate	20
4-Methyl-2-pentanone ^(MIBK)	10
Propionitrile	5.0
Styrene	5.0
1,1,1,2-Tetrachloroethane	5.0
1,1,2,2-Tetrachloroethane	5.0
Tetrachloroethene	5.0
Toluene	5.0
1,1,1-Trichloroethane	5.0
1,1,2-Trichloroethane	5.0
Trichloroethene	5.0
Trichlorofluoromethane	5.0

27 DEC 93

Volatile Organics^Appendix IX List

8240

Component	Reporting Limit (ug/kg)
1,2,3-Trichloropropane	5.0
Vinyl acetate	10
Vinyl chloride	10
Xylenes (total)	5.0

29 DEC 93

Semivolatile Organics^Appendix IX List

8270

Component	Reporting Limit (ug/L)
Acenaphthene	10
Acenaphthylene	10
Acetophenone	10
2-Acetylaminofluorene	100
4-Aminobiphenyl	10
Aniline	10
Anthracene	10
Aramite	10
Benzo(a)anthracene	10
Benzo(b)fluoranthene	10
Benzo(k)fluoranthene	10
Benzo(g,h,i)perylene	10
Benzo(a)pyrene	10
Benzyl alcohol	10
4-Bromophenyl^phenyl ether	10
Butyl benzyl phthalate	10
2-sec-Butyl-4,6-dinitro-^phenol	10
4-Chloroaniline	10
bis(2-Chloroethoxy)^methane	10
bis(2-Chloroethyl) ether	10
bis(2-Chloroisopropyl)^ether	10
4-Chloro-3-methylphenol	10
2-Chloronaphthalene	10
2-Chlorophenol	10
4-Chlorophenyl ^phenyl ether	10
Chrysene	10
Dibenz(a,h)anthracene	10
Dibenzofuran	10
Di-n-butyl phthalate	10
1,2-Dichlorobenzene	10
1,3-Dichlorobenzene	10
1,4-Dichlorobenzene	20
3,3'-Dichlorobenzidine	10
2,4-Dichlorophenol	10
2,6-Dichlorophenol	10
Diethyl phthalate	--
Dimethoate	10
p-Dimethylaminoazobenzene	10
7,12-Dimethylbenz(a)-^anthracene	10
3,3'-Dimethylbenzidine	10
a,a-Dimethylphenethyl-^amine	10
2,4-Dimethylphenol	10
Dimethyl phthalate	10
1,3-Dinitrobenzene	50
4,6-Dinitro-^2-methylphenol	50
2,4-Dinitrophenol	10
2,4-Dinitrotoluene	10
2,6-Dinitrotoluene	10
Di-n-octyl phthalate	10
Diphenylamine	

29 DEC 93

Semivolatile Organics^Appendix IX List

8270

Component	Reporting Limit (ug/L)
Disulfoton	50
bis(2-Ethylhexyl)^phthalate	10
Ethyl methanesulfonate	10
Famphur	--
Fluoranthene	10
Fluorene	10
Hexachlorobenzene	10
Hexachlorobutadiene	10
Hexachlorocyclopentadiene	10
Hexachloroethane	10
Hexachlorophene	--
Hexachloropropene	10
Indeno(1,2,3-cd)pyrene	10
Isophorone	10
Isosafrole	20
Methapyrilene	10
3-Methylcholanthrene	10
Methyl methanesulfonate	10
2-Methylnaphthalene	10
Methyl parathion	50
2-Methylphenol	10
3/4-Methylphenol	10
Naphthalene	10
1,4-Naphthoquinone	10
1-Naphthylamine	10
2-Naphthylamine	10
2-Nitroaniline	50
3-Nitroaniline	50
4-Nitroaniline	50
Nitrobenzene	10
2-Nitrophenol	10
4-Nitrophenol	50
4-Nitroquinoline-1-oxide	--
N-Nitroso-di-n-butylamine	10
N-Nitrosodiethylamine	10
N-Nitrosodimethylamine	10
N-Nitrosodiphenylamine	10
N-Nitroso-di-^n-propylamine	10
N-Nitrosomethylethylamine	10
N-Nitrosomorpholine	10
N-Nitrosopiperidine	10
N-Nitrosopyrrolidine	10
5-Nitro-o-toluidine	10
Parathion	50
Pentachlorobenzene	10
Pentachloroethane	10
Pentachloronitrobenzene	50
Pentachlorophenol	50
Phenacetin	10
Phenanthrene	10

Semivolatile Organics^Appendix IX List

8270

Component	Reporting Limit (ug/L)
Phenol	10
4-Phenylenediamine	--
Phorate	100
2-Picoline	10
Pronamide	10
Pyrene	10
Pyridine	20
Safrole	10
Sulfotepp	50
1,2,4,5-Tetrachloro-^benzene	10
2,3,4,6-Tetrachlorophenol	50
Thionazin	50
2-Toluidine	10
1,2,4-Trichlorobenzene	10
2,4,5-Trichlorophenol	50
2,4,6-Trichlorophenol	10
O,O,O-Triethylphosphoro-^thioate	10
1,3,5-Trinitrobenzene	10

07 DEC 93

ICP Metals (Total)

6010

Component	Reporting Limit (mg/L)
Aluminum	0.1
Antimony	0.06
Arsenic	0.1
Barium	0.01
Beryllium	0.002
Boron	0.1
Cadmium	0.005
Calcium	0.2
Chromium	0.01
Cobalt	0.01
Copper	0.02
Iron	0.1
Lead	0.05
Lithium	0.05
Magnesium	0.2
Manganese	0.01
Molybdenum	0.02
Nickel	0.04
Phosphorus	0.3
Potassium	5
Selenium	0.2
Silica as SiO2	0.5
Silver	0.01
Sodium	5
Strontium	0.05
Thallium	2
Tin	0.1
Titanium	0.015
Vanadium	0.01
Zinc	0.02

07 DEC 93

Arsenic, Furnace AA (Total)

7060

Component	Reporting Limit (mg/L)
Arsenic	0.005

07 DEC 93

Lead, Furnace AA (Total)

7421

Component	Reporting Limit (mg/L)
Lead	0.005

07 DEC 93

Selenium, Furnace AA (Total)

7740

Component	Reporting Limit (mg/L)
Selenium	0.005

07 DEC 93

Chromium VI (Total)

7196

Component	Reporting Limit (mg/L)
Chromium (VI)	0.01

Mercury, Cold Vapor AA (Total)

7470

Component	Reporting Limit (mg/L)
Mercury	0.0002

29 DEC 93

Chlorinated Pesticides and PCB's^Target Compound List (TCL)

8080

Component	Reporting Limit (ug/L)
Aldrin	0.005
Aroclor 1016	0.10
Aroclor 1221	0.10
Aroclor 1232	0.10
Aroclor 1242	0.10
Aroclor 1248	0.10
Aroclor 1254	0.10
Aroclor 1260	0.005
alpha-BHC	0.005
beta-BHC	0.005
delta-BHC	0.005
gamma-BHC (Lindane)	0.005
alpha-Chlordane	0.005
gamma-Chlordane	0.01
4,4'-DDD	0.01
4,4'-DDE	0.01
4,4'-DDT	0.01
Dieldrin	0.005
Endosulfan I	0.01
Endosulfan II	0.01
Endosulfan sulfate	0.01
Endrin	0.01
Endrin aldehyde	0.01
Endrin ketone	0.005
Heptachlor	0.005
Heptachlor epoxide	0.05
Methoxychlor	0.25
Toxaphene	

Volatile Organics^Appendix IX List

8240

Component	Reporting Limit (ug/kg)
Acetone	10
Acetonitrile	200
Acrolein	100
Acrylonitrile	100
Allyl chloride	10
Benzene	5.0
Bromodichloromethane	5.0
Bromoform	5.0
Bromomethane	10
2-Butanone (MEK)	10
Carbon disulfide	5.0
Carbon tetrachloride	5.0
Chlorobenzene	5.0
Chloroethane	10
Chloroform	5.0
Chloromethane	10
Chloroprene	5.0
Dibromochloromethane	5.0
1,2-Dibromo-3-chloro-^propane (DBCP)	10
1,2-Dibromoethane (EDB)	10
Dibromomethane	5.0
trans-1,4-Dichloro-^2-butene	5.0
Dichlorodifluoromethane	20
1,1-Dichloroethane	5.0
1,2-Dichloroethane	5.0
1,1-Dichloroethene	5.0
1,2-Dichloroethene ^(total)	5.0
1,2-Dichloropropane	5.0
cis-1,3-Dichloropropene	5.0
trans-1,3-Dichloropropene	5.0
1,4-Dioxane	500
Ethylbenzene	5.0
Ethyl methacrylate	20
2-Hexanone	10
Iodomethane	5.0
Isobutanol	200
Methacrylonitrile	5.0
Methylene chloride	5.0
Methyl methacrylate	20
4-Methyl-2-pentanone ^(MIBK)	10
Propionitrile	5.0
Styrene	5.0
1,1,1,2-Tetrachloroethane	5.0
1,1,2,2-Tetrachloroethane	5.0
Tetrachloroethene	5.0
Toluene	5.0
1,1,1-Trichloroethane	5.0
1,1,2-Trichloroethane	5.0
Trichloroethene	5.0
Trichlorofluoromethane	5.0

29 DEC 93

Volatile Organics^Appendix IX List

8240

Component	Reporting Limit (ug/kg)
1,2,3-Trichloropropane	5.0
Vinyl acetate	10
Vinyl chloride	10
Xylenes (total)	5.0

Semivolatile Organics^Appendix IX List

8270

Component	Reporting Limit (ug/kg)
Acenaphthene	330
Acenaphthylene	330
Acetophenone	330
2-Acetylaminofluorene	3300
4-Aminobiphenyl	330
Aniline	330
Anthracene	330
Aramite	330
Benzo(a)anthracene	330
Benzo(b)fluoranthene	330
Benzo(k)fluoranthene	330
Benzo(g,h,i)perylene	330
Benzo(a)pyrene	330
Benzyl alcohol	330
4-Bromophenyl^phenyl ether	330
Butyl benzyl phthalate	330
2-sec-Butyl-4,6-dinitro-^phenol	330
4-Chloroaniline	330
bis(2-Chloroethoxy)^methane	330
bis(2-Chloroethyl) ether	330
bis(2-Chloroisopropyl)^ether	330
4-Chloro-3-methylphenol	330
2-Chloronaphthalene	330
2-Chlorophenol	330
4-Chlorophenyl ^phenyl ether	330
Chrysene	330
Dibenz(a,h)anthracene	330
Dibenzofuran	330
Di-n-butyl phthalate	330
1,2-Dichlorobenzene	330
1,3-Dichlorobenzene	330
1,4-Dichlorobenzene	330
3,3'-Dichlorobenzidine	660
2,4-Dichlorophenol	330
2,6-Dichlorophenol	330
Diethyl phthalate	330
Dimethoate	--
p-Dimethylaminoazobenzene	330
7,12-Dimethylbenz(a)-^anthracene	330
3,3'-Dimethylbenzidine	330
a,a-Dimethylphenethyl-^amine	330
2,4-Dimethylphenol	330
Dimethyl phthalate	330
1,3-Dinitrobenzene	330
4,6-Dinitro-^2-methylphenol	1600
2,4-Dinitrophenol	1600
2,4-Dinitrotoluene	330
2,6-Dinitrotoluene	330
Di-n-octyl phthalate	330
Diphenylamine	330

29 DEC 93

Semivolatile Organics^Appendix IX List

8270

Component	Reporting Limit (ug/kg)
Disulfoton	1600
bis(2-Ethylhexyl)^phthalate	330
Ethyl methanesulfonate	330
Famphur	--
Fluoranthene	330
Fluorene	330
Hexachlorobenzene	330
Hexachlorobutadiene	330
Hexachlorocyclopentadiene	330
Hexachloroethane	330
Hexachlorophene	--
Hexachloropropene	330
Indeno(1,2,3-cd)pyrene	330
Isophorone	330
Isosafrole	660
Methapyrilene	330
3-Methylcholanthrene	330
Methyl methanesulfonate	330
2-Methylnaphthalene	330
Methyl parathion	1600
2-Methylphenol	330
3/4-Methylphenol	330
Naphthalene	330
1,4-Naphthoquinone	330
1-Naphthylamine	330
2-Naphthylamine	1600
2-Nitroaniline	1600
3-Nitroaniline	1600
4-Nitroaniline	330
Nitrobenzene	330
2-Nitrophenol	1600
4-Nitrophenol	--
4-Nitroquinoline-1-oxide	330
N-Nitroso-di-n-butylamine	330
N-Nitrosodiethylamine	330
N-Nitrosodimethylamine	330
N-Nitrosodiphenylamine	330
N-Nitroso-di-^n-propylamine	330
N-Nitrosomethylethylamine	330
N-Nitrosomorpholine	330
N-Nitrosopiperidine	330
N-Nitrosopyrrolidine	330
5-Nitro-o-toluidine	1600
Parathion	330
Pentachlorobenzene	330
Pentachloroethane	1600
Pentachloronitrobenzene	1600
Pentachlorophenol	330
Phenacetin	330
Phenanthrene	

Semivolatile Organics^Appendix IX List

8270

Component	Reporting Limit (ug/kg)
Phenol	330
4-Phenylenediamine	--
Phorate	3300
2-Picoline	330
Pronamide	330
Pyrene	330
Pyridine	660
Safrole	330
Sulfotepp	1600
1,2,4,5-Tetrachloro-^benzene	330
2,3,4,6-Tetrachlorophenol	1600
Thionazin	1600
2-Toluidine	330
1,2,4-Trichlorobenzene	330
2,4,5-Trichlorophenol	1600
2,4,6-Trichlorophenol	330
O,O,O-Triethylphosphoro-^thioate	330
1,3,5-Trinitrobenzene	330

07 DEC 93

ICP Metals (Total)

6010

Component	Reporting Limit (mg/kg)
Aluminum	10
Antimony	6
Arsenic	10
Barium	1
Beryllium	0.2
Boron	10
Cadmium	0.5
Calcium	20
Chromium	1
Cobalt	1
Copper	2
Iron	10
Lead	5
Lithium	5
Magnesium	20
Manganese	1
Molybdenum	2
Nickel	4
Osmium	5
Phosphorus	30
Potassium	500
Selenium	20
Silica as SiO2	50
Silver	1
Sodium	500
Strontium	5
Thallium	200
Tin	10
Titanium	1.5
Vanadium	1
Zinc	2

07 DEC 93

Mercury, Cold Vapor AA

7471

Component	Reporting Limit (mg/kg)
Mercury	0.1

07 DEC 93

Chromium VI

7196

Component	Reporting Limit (mg/kg)
Chromium (VI)	0.1

Chlorinated Pesticides and PCB's^Target Compound List (TCL)

8080

Component	Reporting Limit (ug/kg)
Aldrin	1.7
Aroclor 1016	33
Aroclor 1221	33
Aroclor 1232	33
Aroclor 1242	33
Aroclor 1248	33
Aroclor 1254	33
Aroclor 1260	33
alpha-BHC	1.7
beta-BHC	1.7
delta-BHC	1.7
gamma-BHC (Lindane)	1.7
alpha-Chlordane	1.7
gamma-Chlordane	1.7
4,4'-DDD	1.7
4,4'-DDE	3.3
4,4'-DDT	3.3
Dieldrin	3.3
Endosulfan I	3.3
Endosulfan II	1.7
Endosulfan sulfate	3.3
Endrin	3.3
Endrin ketone	3.3
Heptachlor	3.3
Heptachlor epoxide	1.7
Methoxychlor	1.7
Toxaphene	17
	170

APPENDIX C

FIRST ECOLOGICAL ASSESSMENT ANALYTICAL DATA

Section A
First Ecological Assessment
Sediment Data

Section B
First Ecological Assessment
Surface Water Data

Section C
First Ecological Assessment
Crawfish Data

Section A

First Ecological Assessment
Sediment Data

Matrix : SEDIMENT

Client Description	**CC-EC01-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND	B	0.67

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		440
1,2,4-Trichlorobenzene	120821	ND		440
1,2-Dichlorobenzene	95501	ND		440
1,3-Dichlorobenzene	541731	ND		440
1,4-Dichlorobenzene	106467	ND		440
1-Chloronaphthalene	90131	ND		3300
1-Naphthylamine	134327	ND		440
2,3,4,6-Tetrachlorophenol	58902	ND		2100
2,4,5-Trichlorophenol	95954	ND		2100
2,4,6-Trichlorophenol	88062	ND		440
2,4-Dichlorophenol	120832	ND		440
2,4-Dimethylphenol	105679	ND		440
2,4-Dinitrophenol	51285	ND		2100
2,4-Dinitrotoluene	121142	ND		440
2,6-Dichlorophenol	87650	ND		440
2,6-Dinitrotoluene	606202	ND		440
2-Chloronaphthalene	91587	ND		440
2-Chlorophenol	95578	ND		440
2-Methylnaphthalene	91576	ND		440
2-Methylphenol	95487	ND		440
2-Naphthylamine	91598	ND		440
2-Nitrophenol	88755	ND		440
2-Picoline	109068	ND		440
3,3'-Dichlorobenzidine	91941	ND		880
3-Methylcholanthrene	56495	ND		440
3-Nitroaniline	99092	ND		2100
3/4-Methylphenol	7820600	ND		440
4,6-Dinitro-^2-methylphenol	534521	ND		2100
4-Aminobiphenyl	92671	ND		440
4-Bromophenyl^phenyl ether	101553	ND		440
4-Chloro-3-methylphenol	59507	ND		440
4-Chloroaniline	106478	ND		440
4-Chlorophenyl ^phenyl ether	7005723	ND		440
4-Nitroaniline	100016	ND		2100
4-Nitrophenol	100027	ND		2100
7,12-Dimethylbenz(a)-^anthracene	57976	ND		440
Acenaphthene	83329	ND		440
Acenaphthylene	208968	ND		440
Acetophenone	98862	ND		440
Aniline	62533	ND		440
Anthracene	120127	ND		440
Anthracene, 9-cyclohexyltetradecahydro-	55255704	1600	1	1.3
Azobenzene	103333	ND		3300
Benzidine	92875	ND		3300
Benzo(a)anthracene	56553	76	J	440
Benzo(a)pyrene	50328	83	J	440
Benzo(b)fluoranthene	205992	79	J	440
Benzo(g,h,i)perylene	191242	ND		440
Benzo(k)fluoranthene	207089	94	J	440
Benzoic acid	65850	ND		3300
Benzyl alcohol	100516	ND		440
Butyl benzyl phthalate	85687	ND		440
Cholestane, (5.alpha.,14.beta.)-	40071703	260	1	1.3
Chrysene	218019	110	J	440
Cyclohexane, 1,4-dimethyl-, trans-	2207047	180	2	2.7
Di-n-butyl phthalate	84742	ND		440
Di-n-octyl phthalate	117840	ND		440
Dibenz(a,h)anthracene	53703	ND		440
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		440
Diethyl phthalate	84662	ND		440

Matrix : SEDIMENT

Client Description	CC-EC01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		440
Diphenylamine	122394	ND		440
Ethanol, 2-butoxy-, phosphate (3:1)	78513	2100	2	2.7
Ethyl methanesulfonate	62500	ND		440
Fluoranthene	206440	250	J	440
Fluorene	86737	ND		440
Hexachlorobenzene	118741	ND		440
Hexachlorobutadiene	87683	ND		440
Hexachlorocyclopentadiene	77474	ND		440
Hexachloroethane	67721	ND		440
Indeno(1,2,3-cd)pyrene	193395	ND		440
Isophorone	78591	ND		440
Methyl methanesulfonate	66273	ND		440
N-Nitroso-di-^n-propylamine	621647	ND		440
N-Nitroso-di-n-butylamine	924163	ND		440
N-Nitrosodiphenylamine	86306	ND		440
N-Nitrosopiperidine	100754	ND		440
Naphthalene	91203	ND		440
Nitrobenzene	98953	ND		440
Oxetane, 2-ethyl-3-methyl-	53778624	200	1	1.3
Pentachlorobenzene	608935	ND		440
Pentachloronitrobenzene	82688	ND		2100
Pentachlorophenol	87865	ND		2100
Phenacetin	62442	ND		440
Phenanthrene	85018	190	J	440
Phenol	108952	ND		440
Polycyclic Hycrocarbon	865008200	990		
Pronamide	23950585	ND		440
Pyrene	129000	190	J	440
Saturated Hydrocarbon: >C20	7319043800	180		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		440
bis(2-Chloroethoxy)^methane	111911	ND		440
bis(2-Chloroethyl) ether	111444	ND		440
bis(2-Chloroisopropyl)^ether	108601	ND		440
bis(2-Ethylhexyl)^phthalate	117817	110	J	440
p-Dimethylaminoazobenzene	60117	ND		440

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.7
1,1,2,2-Tetrachloroethane	79345	ND		6.7
1,1,2-Trichloroethane	79005	ND		6.7
1,1-Dichloroethane	75343	ND		6.7
1,1-Dichloroethene	75354	ND		6.7
1,2,3-Trichloropropane	96184	ND		6.7
1,2-Dichloroethane	107062	ND		6.7
1,2-Dichloropropane	78875	ND		6.7

Matrix : SEDIMENT

Client Description	CC-EC01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	ND		13
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
Acetone	67641	ND		13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.7
Bromodichloromethane	75274	ND		6.7
Bromoform	75252	ND		6.7
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.7
Carbon tetrachloride	56235	ND		6.7
Chlorobenzene	108907	ND		6.7
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.7
Chloromethane	74873	ND		13
Dibromochloromethane	124481	ND		6.7
Dibromomethane	74953	ND		6.7
Dichlorodifluoromethane	75718	ND		27
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		27
Ethylbenzene	100414	ND		6.7
Iodomethane	74884	ND		6.7
Methylene chloride	75092	4.7	JB	6.7
None Detected	320100	ND		
Styrene	100425	ND		6.7
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.7
Toluene	108883	ND		6.7
Trichloroethene	79016	ND		6.7
Trichlorofluoromethane	75694	ND		6.7
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.7
cis-1,3-Dichloropropene	10061015	ND		6.7
trans-1,2-Dichloroethene	156605	ND		6.7
trans-1,3-Dichloropropene	10061026	ND		6.7
trans-1,4-Dichloro-^2-butene	110576	ND		6.7

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4.4
4,4'-DDE	72559	ND		4.4
4,4'-DDT	50293	ND		4.4
Aldrin	309002	ND		2.3
Aroclor 1016	12674112	ND		44
Aroclor 1221	11104282	ND		44
Aroclor 1232	11141165	ND		44
Aroclor 1242	53469219	ND		44
Aroclor 1248	12672296	ND		44
Aroclor 1254	11097691	ND		44

Matrix : SEDIMENT

Client Description	CC-EC01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		44
Dieldrin	60571	ND		4.4
Endosulfan I	959988	ND		2.3
Endosulfan II	33213659	ND		4.4
Endosulfan sulfate	1031078	ND		4.4
Endrin	72208	ND		4.4
Endrin aldehyde	7421934	ND		4.4
Heptachlor	76448	ND		2.3
Heptachlor epoxide	1024573	ND		2.3
Methoxychlor	72435	ND		23
Toxaphene	8001352	ND		230
alpha-BHC	319846	ND		2.3
alpha-Chlordane	5103719	ND		2.3
beta-BHC	319857	ND		2.3
delta-BHC	319868	ND		2.3
gamma-BHC (Lindane)	58899	ND		2.3
gamma-Chlordane	5103742	ND		2.3

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		2.7

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.3

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	16.3		1.3

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	7210		13.4
Antimony	7440360	ND		8.0
Barium	7440393	1510		1.3
Beryllium	7440417	1.4		0.27
Cadmium	7440439	ND		0.67
Calcium	7440702	86300		26.7
Chromium	7440473	9.4		1.3
Cobalt	7440484	41.6		1.3
Copper	7440508	14.6		2.7
Iron	7439896	27100		13.4
Lead	7439921	44.4		6.7
Magnesium	7439954	22200		26.7
Manganese	7439965	7850		1.3
Molybdenum	7439987	ND		2.7
Nickel	7440020	35.6		5.3
Potassium	7440097	942		668
Silver	7440224	ND		1.3
Sodium	7440235	ND		668

Matrix : SEDIMENT

Client Description	**CC-EC01-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Vanadium	7440622	114		1.3
Zinc	7440666	51.1		2.7

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	4540		500

Matrix : SEDIMENT

Client Description	CC-EC02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND	B	0.63

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		420
1,2,4-Trichlorobenzene	120821	ND		420
1,2-Dichlorobenzene	95501	ND		420
1,3-Dichlorobenzene	541731	ND		420
1,4-Dichlorobenzene	106467	ND		420
1-Chloronaphthalene	90131	ND		3200
1-Naphthylamine	134327	ND		420
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		420
2,4-Dichlorophenol	120832	ND		420
2,4-Dimethylphenol	105679	ND		420
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		420
2,6-Dichlorophenol	87650	ND		420
2,6-Dinitrotoluene	606202	ND		420
2-Chloronaphthalene	91587	ND		420
2-Chlorophenol	95578	ND		420
2-Methylnaphthalene	91576	ND		420
2-Methylphenol	95487	ND		420
2-Naphthylamine	91598	ND		420
2-Nitrophenol	88755	ND		420
2-Picoline	109068	ND		420
28-Nor-17.beta.(H)-hopane	36728720	1200	1	1.3
3,3'-Dichlorobenzidine	91941	ND		840
3-Methylcholanthrene	56495	ND		420
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		420
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		420
4-Bromophenyl^phenyl ether	101553	ND		420
4-Chloro-3-methylphenol	59507	ND		420
4-Chloroaniline	106478	ND		420
4-Chlorophenyl ^phenyl ether	7005723	ND		420
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		420
Acenaphthene	83329	ND		420
Acenaphthylene	208968	ND		420
Acetophenone	98862	ND		420
Aniline	62533	ND		420
Anthracene	120127	ND		420
Azobenzene	103333	ND		3200
Benzidine	92875	ND		3200
Benzo(a)anthracene	56553	ND		420
Benzo(a)pyrene	50328	ND		420
Benzo(b)fluoranthene	205992	ND		420
Benzo(g,h,i)perylene	191242	ND		420
Benzo(k)fluoranthene	207089	ND		420
Benzoic acid	65850	ND		3200
Benzyl alcohol	100516	ND		420
Butyl benzyl phthalate	85687	ND		420
Chrysene	218019	ND		420
Di-n-butyl phthalate	84742	ND		420
Di-n-octyl phthalate	117840	ND		420
Dibenz(a,h)anthracene	53703	ND		420
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		420
Diethyl phthalate	84662	ND		420
Dimethyl phthalate	131113	ND		420
Diphenylamine	122394	ND		420

Matrix : SEDIMENT

Client Description	CC-EC02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethanol, 2-butoxy-, phosphate (3:1)	78513	1700	2	2.5
Ethyl methanesulfonate	62500	ND		420
Fluoranthene	206440	ND		420
Fluorene	86737	ND		420
Hexachlorobenzene	118741	ND		420
Hexachlorobutadiene	87683	ND		420
Hexachlorocyclopentadiene	77474	ND		420
Hexachloroethane	67721	ND		420
Indeno(1,2,3-cd)pyrene	193395	ND		420
Isophorone	78591	ND		420
Methyl methanesulfonate	66273	ND		420
N-Nitroso-di-^n-propylamine	621647	ND		420
N-Nitroso-di-n-butylamine	924163	ND		420
N-Nitrosodiphenylamine	86306	ND		420
N-Nitrosopiperidine	100754	ND		420
Naphthalene	91203	ND		420
Nitrobenzene	98953	ND		420
Oxetane, 2-ethyl-3-methyl-	53778624	240	1	1.3
Oxygenated Hydrocarbon	5886108200	1600		
Oxygenated Hydrocarbon	5886108200	5300		
Pentachlorobenzene	608935	ND		420
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		420
Phenanthrene	85018	ND		420
Phenol	108952	ND		420
Polycyclic Hycrocarbon	865008200	2300		
Pronamide	23950585	ND		420
Pyrene	129000	ND		420
Saturated Hydrocarbon: >C20	7319043800	200		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		420
bis(2-Chloroethoxy)^methane	111911	ND		420
bis(2-Chloroethyl) ether	111444	ND		420
bis(2-Chloroisopropyl)^ether	108601	ND		420
bis(2-Ethylhexyl)^phthalate	117817	160	J	420
p-Dimethylaminoazobenzene	60117	ND		420

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.3
1,1,2,2-Tetrachloroethane	79345	ND		6.3
1,1,2-Trichloroethane	79005	ND		6.3
1,1-Dichloroethane	75343	ND		6.3
1,1-Dichloroethene	75354	ND		6.3
1,2,3-Trichloropropane	96184	ND		6.3
1,2-Dichloroethane	107062	ND		6.3
1,2-Dichloropropane	78875	ND		6.3
2-Butanone (MEK)	078933	ND		13

Matrix : SEDIMENT

Client Description	CC-EC02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
Acetone	67641	ND		13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.3
Bromodichloromethane	75274	ND		6.3
Bromoform	75252	ND		6.3
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.3
Carbon tetrachloride	56235	ND		6.3
Chlorobenzene	108907	ND		6.3
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.3
Chloromethane	74873	ND		13
Dibromochloromethane	124481	ND		6.3
Dibromomethane	74953	ND		6.3
Dichlorodifluoromethane	75718	ND		25
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.3
Iodomethane	74884	ND		6.3
Methylene chloride	75092	3.1	JB	6.3
None Detected	320100	ND		
Styrene	100425	ND		6.3
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.3
Toluene	108883	4.7	J	6.3
Trichloroethene	79016	ND		6.3
Trichlorofluoromethane	75694	ND		6.3
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.3
cis-1,3-Dichloropropene	10061015	ND		6.3
trans-1,2-Dichloroethene	156605	ND		6.3
trans-1,3-Dichloropropene	10061026	ND		6.3
trans-1,4-Dichloro-^2-butene	110576	ND		6.3

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4.2
4,4'-DDE	72559	ND		4.2
4,4'-DDT	50293	ND		4.2
Aldrin	309002	ND		2.2
Aroclor 1016	12674112	ND		42
Aroclor 1221	11104282	ND		42
Aroclor 1232	11141165	ND		42
Aroclor 1242	53469219	ND		42
Aroclor 1248	12672296	ND		42
Aroclor 1254	11097691	ND		42
Aroclor 1260	11096825	ND		42

Matrix : SEDIMENT

Client Description	CC-EC02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dieldrin	60571	ND		4.2
Endosulfan I	959988	ND		2.2
Endosulfan II	33213659	ND		4.2
Endosulfan sulfate	1031078	ND		4.2
Endrin	72208	ND		4.2
Endrin aldehyde	7421934	ND		4.2
Heptachlor	76448	ND		2.2
Heptachlor epoxide	1024573	ND		2.2
Methoxychlor	72435	ND		22
Toxaphene	8001352	ND		220
alpha-BHC	319846	ND		2.2
alpha-Chlordane	5103719	ND		2.2
beta-BHC	319857	ND		2.2
delta-BHC	319868	ND		2.2
gamma-BHC (Lindane)	58899	ND		2.2
gamma-Chlordane	5103742	ND		2.2

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		2.5

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		2.5

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	10.1		1.3

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	5210		25.4
Antimony	7440360	ND		15.2
Barium	7440393	1390		2.5
Beryllium	7440417	0.70		0.51
Cadmium	7440439	ND	G	1.9
Calcium	7440702	161000		50.7
Chromium	7440473	12.5		2.5
Cobalt	7440484	33.7		2.5
Copper	7440508	7.6		5.1
Iron	7439896	13700		25.4
Lead	7439921	27.8		12.7
Magnesium	7439954	37000		50.7
Manganese	7439965	7170		2.5
Molybdenum	7439987	1.8	J	5.1
Nickel	7440020	28.8		10.1
Potassium	7440097	875	J	1270
Silver	7440224	ND		2.5
Sodium	7440235	ND		1270
Vanadium	7440622	62.2		2.5

Matrix : SEDIMENT

Client Description	**CC-EC02-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Zinc	7440666	42.6		5.1

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	12300		500

Matrix : SEDIMENT

Client Description	SC-EE01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		400
1,2,4-Trichlorobenzene	120821	ND		400
1,2-Dichlorobenzene	95501	ND		400
1,3-Dichlorobenzene	541731	ND		400
1,4-Dichlorobenzene	106467	ND		400
1-Chloronaphthalene	90131	ND		3100
1-Naphthylamine	134327	ND		400
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		400
2,4-Dichlorophenol	120832	ND		400
2,4-Dimethylphenol	105679	ND		400
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		400
2,6-Dichlorophenol	87650	ND		400
2,6-Dinitrotoluene	606202	ND		400
2-Chloronaphthalene	91587	ND		400
2-Chlorophenol	95578	ND		400
2-Methylnaphthalene	91576	ND		400
2-Methylphenol	95487	ND		400
2-Naphthylamine	91598	ND		400
2-Nitrophenol	88755	ND		400
2-Picoline	109068	ND		400
3,3'-Dichlorobenzidine	91941	ND		810
3,5-Heptanedione, 2,2,6,6-tetramethyl-	1118714	960	1	1.2
3-Methylcholanthrene	56495	ND		400
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		400
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		400
4-Bromophenyl^phenyl ether	101553	ND		400
4-Chloro-3-methylphenol	59507	ND		400
4-Chloroaniline	106478	ND		400
4-Chlorophenyl ^phenyl ether	7005723	ND		400
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
5-Nonanone, 2,2,8,8-tetramethyl-	5709955	1100	1	1.2
7,12-Dimethylbenz(a)-^anthracene	57976	ND		400
Acenaphthene	83329	ND		400
Acenaphthylene	208968	ND		400
Acetophenone	98862	ND		400
Aniline	62533	ND		400
Anthracene	120127	57	J	400
Aromatic Hydrocarbon	171492500	1300		
Azobenzene	103333	ND		3100
Benzene, 2,4-difluoro-1-isocyanato-	59025557	2000	1	1.2
Benzidine	92875	ND		3100
Benzo(a)anthracene	56553	390	J	400
Benzo(a)pyrene	50328	340	J	400
Benzo(b)fluoranthene	205992	790		400
Benzo(g,h,i)perylene	191242	100	J	400
Benzo(k)fluoranthene	207089	ND		400
Benzoic acid	65850	ND		3100
Benzyl alcohol	100516	ND		400
Butyl benzyl phthalate	85687	ND		400
Chrysene	218019	780		400
Di-n-butyl phthalate	84742	ND		400
Di-n-octyl phthalate	117840	ND		400
Dibenz(a,h)anthracene	53703	ND		400
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		400

Matrix : SEDIMENT

Client Description	SC-EE01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diethyl phthalate	84662	ND		400
Dimethyl phthalate	131113	ND		400
Diphenylamine	122394	ND		400
Ethyl methanesulfonate	62500	ND		400
Fluoranthene	206440	1600		400
Fluorene	86737	ND		400
Heptanoic acid, anhydride	626277	1300	2	2.5
Hexachlorobenzene	118741	ND		400
Hexachlorobutadiene	87683	ND		400
Hexachlorocyclopentadiene	77474	ND		400
Hexachloroethane	67721	ND		400
Indeno(1,2,3-cd)pyrene	193395	120	J	400
Isophorone	78591	ND		400
Methyl methanesulfonate	66273	ND		400
N-Nitroso-di-^n-propylamine	621647	ND		400
N-Nitroso-di-n-butylamine	924163	ND		400
N-Nitrosodiphenylamine	86306	ND		400
N-Nitrosopiperidine	100754	ND		400
Naphthalene	91203	ND		400
Naphthalene, 2-(1-methylethyl)-	2027170	1000	1	1.2
Nitrobenzene	98953	ND		400
Nitrogen compound	3937300	670		
Nitrogen compound	3937300	940		
Oxygenated Hydrocarbon	5886108200	740		
Pentachlorobenzene	608935	ND		400
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		400
Phenanthrene	85018	530		400
Phenol	108952	ND		400
Phosphoric acid, tris(methylphenyl) ester	1330785	630	1	1.2
Pronamide	23950585	ND		400
Pyrene	129000	1300		400
Pyrrolidine, 1-(1-oxo-5,7,9,14,17-eicosapentaenyl)	108543686	2000	1	1.2
Saturated Hydrocarbon: >C20	7319043800	450		
Saturated Hydrocarbon: >C20	7319043800	830		
Saturated Hydrocarbon: C10-C20	731904300	400		
Saturated Hydrocarbon: C10-C20	731904300	480		
Saturated Hydrocarbon: C10-C20	731904300	490		
Saturated Hydrocarbon: C10-C20	731904300	510		
Saturated Hydrocarbon: C10-C20	731904300	530		
Saturated Hydrocarbon: C10-C20	731904300	540		
Saturated Hydrocarbon: C10-C20	731904300	620		
Silacyclohexane, 1,1-dimethyl-	4040748	1500	1	1.2
Stigmastane	601581	700	2	2.5
a,a-Dimethylphenethyl-^amine	122098	ND		400
bis(2-Chloroethoxy)^methane	111911	ND		400
bis(2-Chloroethyl) ether	111444	ND		400
bis(2-Chloroisopropyl)^ether	108601	ND		400
bis(2-Ethylhexyl)^phthalate	117817	670		400
p-Dimethylaminoazobenzene	60117	ND		400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1
1,2-Dichloropropane	78875	ND		6.1
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12

Matrix : SEDIMENT

Client Description	SC-EE01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		25
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	5.5	JB	6.1
None Detected	320100	ND		
Styrene	100425	ND		6.1
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.1
Toluene	108883	ND		6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-^2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		20
4,4'-DDE	72559	ND		20
4,4'-DDT	50293	ND		20
Aldrin	309002	ND		10
Aroclor 1016	12674112	ND		200
Aroclor 1221	11104282	ND		200
Aroclor 1232	11141165	ND		200
Aroclor 1242	53469219	ND		200
Aroclor 1248	12672296	ND		200
Aroclor 1254	11097691	ND		200
Aroclor 1260	11096825	690		200
Aroclor 1260	11096825	740		200
Dieldrin	60571	ND		20

Matrix : SEDIMENT

Client Description	**SC-EE01-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Endosulfan I	959988	ND		10
Endosulfan II	33213659	ND		20
Endosulfan sulfate	1031078	ND		20
Endrin	72208	ND		20
Endrin aldehyde	7421934	ND		20
Heptachlor	76448	ND		10
Heptachlor epoxide	1024573	ND		10
Methoxychlor	72435	ND		100
Toxaphene	8001352	ND		1000
alpha-BHC	319846	ND		10
alpha-Chlordane	5103719	ND		10
beta-BHC	319857	ND		10
delta-BHC	319868	ND		10
gamma-BHC (Lindane)	58899	ND		10
gamma-Chlordane	5103742	ND		10

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		2.5

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		2.5

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.17		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	2.0		1.2

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	4040		12.3
Antimony	7440360	ND		7.4
Barium	7440393	193		1.2
Beryllium	7440417	ND		0.25
Cadmium	7440439	1.7		0.61
Calcium	7440702	107000		24.5
Chromium	7440473	16.5		1.2
Cobalt	7440484	4.5		1.2
Copper	7440508	284		2.5
Iron	7439896	4630		12.3
Lead	7439921	25.2		6.1
Magnesium	7439954	5300		24.5
Manganese	7439965	408		1.2
Molybdenum	7439987	ND		2.5
Nickel	7440020	8.0		4.9
Potassium	7440097	169	J	613
Silver	7440224	11.7		1.2
Sodium	7440235	ND		613
Vanadium	7440622	11.7		1.2
Zinc	7440666	91.8		2.5

Matrix : SEDIMENT

Client Description	SC-EE01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	6260		500

Matrix : SEDIMENT

Client Description	**SC-EE02-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND	B	0.66

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1-Biphenyl, 2,2',3,4,5,5'-hexachloro-	52712046	4400	2	2.6
1,2,4,5-Tetrachloro-^benzene	95943	ND		4400
1,2,4-Trichlorobenzene	120821	ND		4400
1,2-Dichlorobenzene	95501	ND		4400
1,3-Dichlorobenzene	541731	ND		4400
1,4-Dichlorobenzene	106467	ND		4400
1-Chloronaphthalene	90131	ND		33000
1-Naphthylamine	134327	ND		4400
11H-Benzo[b]fluorene	243174	4400	2	2.6
2,3,4,6-Tetrachlorophenol	58902	ND		21000
2,4,5-Trichlorophenol	95954	ND		21000
2,4,6-Trichlorophenol	88062	ND		4400
2,4-Dichlorophenol	120832	ND		4400
2,4-Dimethylphenol	105679	ND		4400
2,4-Dinitrophenol	51285	ND		21000
2,4-Dinitrotoluene	121142	ND		4400
2,6-Dichlorophenol	87650	ND		4400
2,6-Dinitrotoluene	606202	ND		4400
2-Chloronaphthalene	91587	ND		4400
2-Chlorophenol	95578	ND		4400
2-Methylnaphthalene	91576	800	J	4400
2-Methylphenol	95487	ND		4400
2-Naphthylamine	91598	ND		4400
2-Nitrophenol	88755	ND		4400
2-Picoline	109068	ND		4400
3,3'-Dichlorobenzidine	91941	ND		8700
3-Fluoranthenamine	2693461	4600	2	2.6
3-Methylcholanthrene	56495	ND		4400
3-Nitroaniline	99092	ND		21000
3/4-Methylphenol	7820600	ND		4400
4,6-Dinitro-^2-methylphenol	534521	ND		21000
4-Aminobiphenyl	92671	ND		4400
4-Bromophenyl^phenyl ether	101553	ND		4400
4-Chloro-3-methylphenol	59507	ND		4400
4-Chloroaniline	106478	ND		4400
4-Chlorophenyl ^phenyl ether	7005723	2700	J	4400
4-Nitroaniline	100016	ND		21000
4-Nitrophenol	100027	ND		21000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		4400
9,10-Anthracendione, 1,5-dimethoxy-	6448904	3300	2	2.6
9H-Fluorene, 9-phenyl-	789242	3700	1	1.3
Acenaphthene	83329	2300	J	4400
Acenaphthylene	208968	ND		4400
Acetophenone	98862	ND		4400
Aniline	62533	ND		4400
Anthracene	120127	7400		4400
Azobenzene	103333	ND		33000
Benzidine	92875	ND		33000
Benzo(a)anthracene	56553	26000		4400
Benzo(a)carbazole	239010	4100	2	2.6
Benzo(a)pyrene	50328	23000		4400
Benzo(b)fluoranthene	205992	31000		4400
Benzo(g,h,i)perylene	191242	13000		4400
Benzo(k)fluoranthene	207089	ND		4400
Benzo[b]naptho[2,1-d]thiophene	239350	3200	2	2.6
Benzo[b]naptho[2,1-d]thiophene	239350	4000	2	2.6
Benzo[c]phenanthrene	195197	7000		2.6
Benzo[c]phenanthrene, 3-methyl-	2381193	4100	2	2.6
Benzoic acid	65850	ND		33000
Benzyl alcohol	100516	ND		4400
Butyl benzyl phthalate	85687	ND		4400

Matrix : SEDIMENT

Client Description	SC-EE02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	27000		4400
Chrysin	480400	4000	2	2.6
Di-n-butyl phthalate	84742	ND		4400
Di-n-octyl phthalate	117840	ND		4400
Dibenz(a,c)anthracene	215587	4700	2	2.6
Dibenz(a,h)anthracene	53703	5900		4400
Dibenz(a,j)acridine	224420	ND		--
Dibenzo(B-def)carbazole	104313099	5600	2	2.6
Dibenzofuran	132649	1200	J	4400
Diethyl phthalate	84662	ND		4400
Dimethyl phthalate	131113	ND		4400
Diphenylamine	122394	ND		4400
Ethyl methanesulfonate	62500	ND		4400
Fluoranthene	206440	49000		4400
Fluorene	86737	ND		4400
Hexachlorobenzene	118741	ND		4400
Hexachlorobutadiene	87683	ND		4400
Hexachlorocyclopentadiene	77474	ND		4400
Hexachloroethane	67721	ND		4400
Indeno(1,2,3-cd)pyrene	193395	13000		4400
Indolo[3,2-c]cinnoline	82453347	4700	2	2.6
Isophorone	78591	ND		4400
Methyl methanesulfonate	66273	ND		4400
N-Nitroso-di-^n-propylamine	621647	ND		4400
N-Nitroso-di-n-butylamine	924163	ND		4400
N-Nitrosodiphenylamine	86306	ND		4400
N-Nitrosopiperidine	100754	ND		4400
Naphthalene	91203	1000	J	4400
Nitrobenzene	98953	ND		4400
Pentachlorobenzene	608935	ND		4400
Pentachloronitrobenzene	82688	ND		21000
Pentachlorophenol	87865	ND		21000
Perylene	198550	13000	2	2.6
Phenacetin	62442	ND		4400
Phenanthrene	85018	32000		4400
Phenol	108952	ND		4400
Polynuclear Aromatic Hydrocarbon	519171400	3300		
Polynuclear Aromatic Hydrocarbon	519171400	4400		
Polynuclear Aromatic Hydrocarbon	519171400	5900		
Polynuclear Aromatic Hydrocarbon	519171400	6700		
Pronamide	23950585	ND		4400
Pyrene	129000	40000		4400
Saturated Hydrocarbon: >C20	7319043800	4200		
Saturated Hydrocarbon: >C20	7319043800	6400		
Triphenylene	217594	17000	2	2.6
Triphenylene, 2-methyl-	1705846	5600	2	2.6
Unsaturated Hydrocarbon	4628492500	4000		
a,a-Dimethylphenethyl-^amine	122098	ND		4400
bis(2-Chloroethoxy)^methane	111911	ND		4400
bis(2-Chloroethyl) ether	111444	ND		4400
bis(2-Chloroisopropyl)^ether	108601	ND		4400
bis(2-Ethylhexyl)^phthalate	117817	740	J	4400
p-Dimethylaminoazobenzene	60117	ND		4400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.6
1,1,2,2-Tetrachloroethane	79345	ND		6.6
1,1,2-Trichloroethane	79005	ND		6.6
1,1-Dichloroethane	75343	ND		6.6
1,1-Dichloroethene	75354	ND		6.6
1,2,3-Trichloropropane	96184	ND		6.6
1,2-Dichloroethane	107062	ND		6.6
1,2-Dichloropropane	78875	ND		6.6
2-Butanone (MEK)	078933	ND		13

Matrix : SEDIMENT

Client Description	SC-EE02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
Acetone	67641	2.0	J	13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.6
Bromodichloromethane	75274	ND		6.6
Bromoform	75252	ND		6.6
Bromomethane	74839	ND		13
Carbon disulfide	75150	1.4	J	6.6
Carbon tetrachloride	56235	ND		6.6
Chlorobenzene	108907	ND		6.6
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.6
Chloromethane	74873	ND		13
Dibromochloromethane	124481	ND		6.6
Dibromomethane	74953	ND		6.6
Dichlorodifluoromethane	75718	ND		26
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		26
Ethylbenzene	100414	ND		6.6
Iodomethane	74884	ND		6.6
Methylene chloride	75092	5.3	JB	6.6
Siloxane	73400	17		
Siloxane	73400	8.9		
Styrene	100425	ND		6.6
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	3.3	J	6.6
Toluene	108883	4.2	J	6.6
Trichloroethene	79016	ND		6.6
Trichlorofluoromethane	75694	ND		6.6
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.6
cis-1,3-Dichloropropene	10061015	ND		6.6
trans-1,2-Dichloroethene	156605	ND		6.6
trans-1,3-Dichloropropene	10061026	ND		6.6
trans-1,4-Dichloro-^2-butene	110576	ND		6.6

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		440
4,4'-DDD	72548	ND		440
4,4'-DDE	72559	ND		440
4,4'-DDE	72559	ND		440
4,4'-DDT	50293	ND		440
4,4'-DDT	50293	ND		440
Aldrin	309002	ND		220
Aldrin	309002	ND		220
Aroclor 1016	12674112	ND		4400
Aroclor 1016	12674112	ND		4400
Aroclor 1221	11104282	ND		4400

Matrix : SEDIMENT

Client Description	SC-EE02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1221	11104282	ND		4400
Aroclor 1232	11141165	ND		4400
Aroclor 1232	11141165	ND		4400
Aroclor 1242	53469219	ND		4400
Aroclor 1242	53469219	ND		4400
Aroclor 1248	12672296	ND		4400
Aroclor 1248	12672296	ND		4400
Aroclor 1254	11097691	21000		4400
Aroclor 1254	11097691	22000		4400
Aroclor 1260	11096825	ND		4400
Aroclor 1260	11096825	ND		4400
Dieldrin	60571	ND		440
Dieldrin	60571	ND		440
Endosulfan I	959988	ND		220
Endosulfan I	959988	ND		220
Endosulfan II	33213659	ND		440
Endosulfan II	33213659	ND		440
Endosulfan sulfate	1031078	ND		440
Endosulfan sulfate	1031078	ND		440
Endrin	72208	ND		440
Endrin	72208	ND		440
Endrin aldehyde	7421934	ND		440
Endrin aldehyde	7421934	ND		440
Heptachlor	76448	ND		220
Heptachlor	76448	ND		220
Heptachlor epoxide	1024573	ND		220
Heptachlor epoxide	1024573	ND		220
Methoxychlor	72435	ND		2200
Methoxychlor	72435	ND		2200
Toxaphene	8001352	ND		22000
Toxaphene	8001352	ND		22000
alpha-BHC	319846	ND		220
alpha-BHC	319846	ND		220
alpha-Chlordane	5103719	ND		220
alpha-Chlordane	5103719	ND		220
beta-BHC	319857	ND		220
beta-BHC	319857	ND		220
delta-BHC	319868	ND		220
delta-BHC	319868	ND		220
gamma-BHC (Lindane)	58899	ND		220
gamma-BHC (Lindane)	58899	ND		220
gamma-Chlordane	5103742	ND		220
gamma-Chlordane	5103742	ND		220

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.3

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.34	J	0.66

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.14		0.13

Matrix : SEDIMENT

Client Description	SC-EE02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	8.7		0.66

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1490		26.5
Antimony	7440360	ND		15.9
Barium	7440393	1460		2.6
Beryllium	7440417	ND		0.53
Cadmium	7440439	ND		1.3
Calcium	7440702	142000		52.9
Chromium	7440473	84.7		2.6
Cobalt	7440484	3.8		2.6
Copper	7440508	332		5.3
Iron	7439896	3960		26.5
Lead	7439921	23.3		13.2
Magnesium	7439954	5470		52.9
Manganese	7439965	91.6		2.6
Molybdenum	7439987	3.6	J	5.3
Nickel	7440020	62.7		10.6
Potassium	7440097	391	J	1320
Silver	7440224	ND		2.6
Sodium	7440235	ND		1320
Vanadium	7440622	8.0		2.6
Zinc	7440666	196		5.3

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	14900		500

Matrix : SEDIMENT

Client Description	SC-EE03-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND	B	0.59

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1600
1,2,4-Trichlorobenzene	120821	ND		1600
1,2-Dichlorobenzene	95501	ND		1600
1,3-Dichlorobenzene	541731	ND		1600
1,4-Dichlorobenzene	106467	ND		1600
1-Chloronaphthalene	90131	ND		12000
1-Naphthylamine	134327	ND		1600
11H-Benzo[b]fluorene	243174	1400	2	2.4
11H-Benzo[b]fluorene	243174	3000	2	2.4
2,3,4,6-Tetrachlorophenol	58902	ND		7600
2,4,5-Trichlorophenol	95954	ND		7600
2,4,6-Trichlorophenol	88062	ND		1600
2,4-Dichlorophenol	120832	ND		1600
2,4-Dimethylphenol	105679	ND		1600
2,4-Dinitrophenol	51285	ND		7600
2,4-Dinitrotoluene	121142	ND		1600
2,6-Dichlorophenol	87650	ND		1600
2,6-Dinitrotoluene	606202	ND		1600
2-Chloronaphthalene	91587	ND		1600
2-Chlorophenol	95578	ND		1600
2-Methylnaphthalene	91576	440	J	1600
2-Methylphenol	95487	ND		1600
2-Naphthylamine	91598	ND		1600
2-Nitrophenol	88755	ND		1600
2-Phenylnaphthalene	35465715	710	2	2.4
2-Picoline	109068	ND		1600
3,3'-Dichlorobenzidine	91941	ND		3100
3,4-Dihydrocyclopenta(cd)pyrene (acepyrene)	25732745	2800	2	2.4
3-Methylcholanthrene	56495	ND		1600
3-Nitroaniline	99092	ND		7600
3/4-Methylphenol	7820600	ND		1600
4,6-Dinitro-^2-methylphenol	534521	ND		7600
4-Aminobiphenyl	92671	ND		1600
4-Bromophenyl^phenyl ether	101553	ND		1600
4-Chloro-3-methylphenol	59507	ND		1600
4-Chloroaniline	106478	ND		1600
4-Chlorophenyl ^phenyl ether	7005723	ND		1600
4-Nitroaniline	100016	ND		7600
4-Nitrophenol	100027	ND		7600
4H-Cyclopenta[def]phenanthrene	203645	2100	2	2.4
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1600
9,10-Anthracenedione	84651	710	2	2.4
Acenaphthene	83329	3000		1600
Acenaphthylene	208968	ND		1600
Acetophenone	98862	ND		1600
Aniline	62533	ND		1600
Anthracene	120127	5300		1600
Anthracene, 2-methyl-	613127	660	2	2.4
Anthracene, 2-methyl-	613127	700	2	2.4
Azobenzene	103333	ND		12000
Benz[j]aceanthrylene, 3-methyl-	3343100	1000	2	2.4
Benzidine	92875	ND		12000
Benzo(a)anthracene	56553	8000		1600
Benzo(a)pyrene	50328	5300		1600
Benzo(b)fluoranthene	205992	4400		1600
Benzo(c)carbazole	34777338	1100	2	2.4
Benzo(e)pyrene	192972	2500	2	2.4
Benzo(e)pyrene	192972	740	2	2.4
Benzo(g,h,i)perylene	191242	2300		1600
Benzo(k)fluoranthene	207089	7000		1600
Benzo[b]naptho[2,1-d]thiophene	239350	1500	2	2.4

Matrix : SEDIMENT

Client Description	SC-EE03-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzoic acid	65850	ND		12000
Benzyl alcohol	100516	ND		1600
Butyl benzyl phthalate	85687	ND		1600
Caprolactam	105602	1100	2	2.4
Carbazole	86748	ND		
Chrysene	218019	1100	J	1600
Di-n-butyl phthalate	84742	ND		1600
Di-n-octyl phthalate	117840	ND		1600
Dibenz(a,c)anthracene	215587	1000		
Dibenz(a,h)anthracene	53703	1300	J	1600
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	2100		1600
Dibenzofuran, 4-methyl-	7320538	680	2	2.4
Dibenzothiophene	132650	1100	2	2.4
Diethyl phthalate	84662	ND		1600
Dimethyl phthalate	131113	ND		1600
Diphenylamine	122394	ND		1600
Ethyl methanesulfonate	62500	ND		1600
Fluoranthene	206440	22000		1600
Fluorene	86737	3000		1600
Hexachlorobenzene	118741	ND		1600
Hexachlorobutadiene	87683	ND		1600
Hexachlorocyclopentadiene	77474	ND		1600
Hexachloroethane	67721	ND		1600
Indeno(1,2,3-cd)pyrene	193395	2700		1600
Isophorone	78591	ND		1600
Methyl methanesulfonate	66273	ND		1600
N-Nitroso-di-^n-propylamine	621647	ND		1600
N-Nitroso-di-n-butylamine	924163	ND		1600
N-Nitrosodiphenylamine	86306	ND		1600
N-Nitrosopiperidine	100754	ND		1600
Naphthalene	91203	1500	J	1600
Nitrobenzene	98953	ND		1600
Pentachlorobenzene	608935	ND		1600
Pentachloronitrobenzene	82688	ND		7600
Pentachlorophenol	87865	ND		7600
Phenacetin	62442	ND		1600
Phenanthrene	85018	23000		1600
Phenol	108952	ND		1600
Polynuclear Aromatic Hydrocarbon	519171400	1400		
Polynuclear Aromatic Hydrocarbon	519171400	1700		
Pronamide	23950585	ND		1600
Pyrene	129000	16000		1600
Pyrene, 2-methyl-	3442782	3900	2	2.4
Pyrene, 4-methyl-	3353126	1300	2	2.4
TID Compound 25	9382902	700	3	3.6
Triphenylene	217594	9500	2	2.4
Unknown	57200	1200		
a,a-Dimethylphenethyl-^amine	122098	ND		1600
bis(2-Chloroethoxy)^methane	111911	ND		1600
bis(2-Chloroethyl) ether	111444	ND		1600
bis(2-Chloroisopropyl)^ether	108601	ND		1600
bis(2-Ethylhexyl)^phthalate	117817	360	J	1600
p-Dimethylaminoazobenzene	60117	ND		1600

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		5.9
1,1,2,2-Tetrachloroethane	79345	ND		5.9
1,1,2-Trichloroethane	79005	ND		5.9
1,1-Dichloroethane	75343	ND		5.9
1,1-Dichloroethene	75354	ND		5.9
1,2,3-Trichloropropane	96184	ND		5.9
1,2-Dichloroethane	107062	ND		5.9
1,2-Dichloropropane	78875	ND		5.9

Matrix : SEDIMENT

Client Description	SC-EE03-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	2.3	J	5.9
Bromodichloromethane	75274	ND		5.9
Bromoform	75252	ND		5.9
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		5.9
Carbon tetrachloride	56235	ND		5.9
Chlorobenzene	108907	3.4	J	5.9
Chloroethane	75003	ND		12
Chloroform	67663	ND		5.9
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		5.9
Dibromomethane	74953	ND		5.9
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		5.9
Iodomethane	74884	ND		5.9
Methylene chloride	75092	ND		5.9
Nonane, 3,7-dimethyl-	17302328	9.3	I	1.2
Siloxane	73400	6.8		
Siloxane	73400	9.5		
Styrene	100425	ND		5.9
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.9
Toluene	108883	4.0	J	5.9
Trichloroethene	79016	2.1	J	5.9
Trichlorofluoromethane	75694	ND		5.9
Unknown	57200	6.3		
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		5.9
cis-1,3-Dichloropropene	10061015	ND		5.9
trans-1,2-Dichloroethene	156605	ND		5.9
trans-1,3-Dichloropropene	10061026	ND		5.9
trans-1,4-Dichloro-^2-butene	110576	ND		5.9

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		7.8
4,4'-DDE	72559	ND		7.8
4,4'-DDT	50293	ND		7.8
Aldrin	309002	ND		4.0
Aroclor 1016	12674112	ND		78
Aroclor 1221	11104282	ND		78
Aroclor 1232	11141165	ND		78
Aroclor 1242	53469219	ND		78
Aroclor 1248	12672296	ND		78
Aroclor 1254	11097691	330	M	78

Matrix : SEDIMENT

Client Description	SC-EE03-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	380		78
Aroclor 1260	11096825	ND		78
Dieldrin	60571	ND		7.8
Endosulfan I	959988	ND		4.0
Endosulfan II	33213659	ND		7.8
Endosulfan sulfate	1031078	ND		7.8
Endrin	72208	ND		7.8
Endrin aldehyde	7421934	ND		7.8
Heptachlor	76448	ND		4.0
Heptachlor epoxide	1024573	ND		4.0
Methoxychlor	72435	ND		40
Toxaphene	8001352	ND		400
alpha-BHC	319846	ND		4.0
alpha-Chlordane	5103719	ND		4.0
beta-BHC	319857	ND		4.0
delta-BHC	319868	ND		4.0
gamma-BHC (Lindane)	58899	ND		4.0
gamma-Chlordane	5103742	ND		4.0

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.096	J	0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.5		0.59

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1520		23.7
Antimony	7440360	ND		14.2
Barium	7440393	184		2.4
Beryllium	7440417	ND		0.47
Cadmium	7440439	5.5		1.2
Calcium	7440702	139000		47.4
Chromium	7440473	30.6		2.4
Cobalt	7440484	ND		2.4
Copper	7440508	28.6		4.7
Iron	7439896	4250		23.7
Lead	7439921	25.7		11.9
Magnesium	7439954	8170		47.4
Manganese	7439965	492		2.4
Molybdenum	7439987	1.7	J	4.7
Nickel	7440020	12.2		9.5
Potassium	7440097	405	J	1190
Silver	7440224	ND		2.4

Matrix : SEDIMENT

Client Description	**SC-EE03-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		1190
Vanadium	7440622	7.1		2.4
Zinc	7440666	85.4		4.7

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	22000		500

Matrix : SEDIMENT

Client Description	SC-EE04-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND	B	0.62

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		410
1,2,4-Trichlorobenzene	120821	ND		410
1,2-Benzenedicarboxylic acid, dipropyl ester	131168	230	1	1.2
1,2-Dichlorobenzene	95501	ND		410
1,3-Dichlorobenzene	541731	ND		410
1,4-Dichlorobenzene	106467	ND		410
1-Chloronaphthalene	90131	ND		3100
1-Naphthalenecarboxamide, N,N-diethyl-	5454104	230	1	1.2
1-Naphthylamine	134327	ND		410
11H-Benzo[b]fluorene	243174	190	2	2.5
11H-Benzo[b]fluorene	243174	260	2	2.5
1H-Pyrido[3,4-b]indole, 2,3,4,9-tetrahydro-	6649770	780	2	2.5
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		410
2,4-Dichlorophenol	120832	ND		410
2,4-Dimethylphenol	105679	ND		410
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		410
2,6-Dichlorophenol	87650	ND		410
2,6-Dinitrotoluene	606202	ND		410
2-Chloronaphthalene	91587	ND		410
2-Chlorophenol	95578	ND		410
2-Hexenal diethyl acetal, trans-	61147873	390	1	1.2
2-Methylnaphthalene	91576	ND		410
2-Methylphenol	95487	ND		410
2-Naphthylamine	91598	ND		410
2-Nitrophenol	88755	ND		410
2-Picoline	109068	ND		410
3,3'-Dichlorobenzidine	91941	ND		820
3-Methylcholanthrene	56495	ND		410
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		410
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		410
4-Bromophenyl^phenyl ether	101553	ND		410
4-Chloro-3-methylphenol	59507	ND		410
4-Chloroaniline	106478	ND		410
4-Chlorophenyl ^phenyl ether	7005723	ND		410
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
4H-Cyclopenta[def]phenanthrene	203645	320	2	2.5
7,12-Dimethylbenz(a)-^anthracene	57976	ND		410
Acenaphthene	83329	80	J	410
Acenaphthylene	208968	ND		410
Acetophenone	98862	ND		410
Aniline	62533	ND		410
Anthracene	120127	290	J	410
Aromatic Hydrocarbon	171492500	260		
Azobenzene	103333	ND		3100
Benzidine	92875	ND		3100
Benzo(a)anthracene	56553	1200		410
Benzo(a)pyrene	50328	1200		410
Benzo(b)fluoranthene	205992	1400		410
Benzo(e)pyrene	192972	300	2	2.5
Benzo(e)pyrene	192972	870	2	2.5
Benzo(g,h,i)perylene	191242	390	J	410
Benzo(k)fluoranthene	207089	1400		410
Benzoic acid	65850	ND		3100
Benzothiazole, 2-methyl-5-(trifluoromethyl)-	398992	190	1	1.2
Benzyl alcohol	100516	ND		410

Matrix : SEDIMENT

Client Description	SC-EE04-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Butyl benzyl phthalate	85687	ND		410
Cholesterol	57885	400	2	2.5
Chrysene	218019	130	J	410
Chrysene, 3-methyl-	3351313	320	2	2.5
Di-n-butyl phthalate	84742	ND		410
Di-n-octyl phthalate	117840	57	J	410
Dibenz(a,h)anthracene	53703	ND		410
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		410
Diethyl phthalate	84662	ND		410
Dimethyl phthalate	131113	ND		410
Diphenylamine	122394	ND		410
Ethyl methanesulfonate	62500	ND		410
Fluoranthene	206440	3100		410
Fluorene	86737	96	J	410
Heptanoic acid, anhydride	626277	660	2	2.5
Hexachlorobenzene	118741	ND		410
Hexachlorobutadiene	87683	ND		410
Hexachlorocyclopentadiene	77474	ND		410
Hexachloroethane	67721	ND		410
Indeno(1,2,3-cd)pyrene	193395	410		410
Isophorone	78591	ND		410
Methyl methanesulfonate	66273	ND		410
N-Nitroso-di-^n-propylamine	621647	ND		410
N-Nitroso-di-n-butylamine	924163	ND		410
N-Nitrosodiphenylamine	86306	ND		410
N-Nitrosopiperidine	100754	ND		410
Naphthalene	91203	ND		410
Nitrobenzene	98953	ND		410
Pentachlorobenzene	608935	ND		410
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		410
Phenanthrene	85018	1800		410
Phenanthrene, 9-dodecyltetradecahydro-	55334015	380	1	1.2
Phenol	108952	ND		410
Polycyclic Hycrocarbon	865008200	280		
Polynuclear Aromatic Hydrocarbon	519171400	240		
Polynuclear Aromatic Hydrocarbon	519171400	290		
Polynuclear Aromatic Hydrocarbon	519171400	360		
Polynuclear Aromatic Hydrocarbon	519171400	390		
Proceroside	25323744	470	1	1.2
Pronamide	23950585	ND		410
Pyrene	129000	2300		410
Saturated Hydrocarbon: >C20	7319043800	270		
Saturated Hydrocarbon: C10-C20	731904300	220		
Stannane, chlorotris(2-methylpropyl)-	7342383	250	2	2.5
TID Compound 25	9382902	ND		410
a,a-Dimethylphenethyl-^amine	122098	ND		410
bis(2-Chloroethoxy)^methane	111911	ND		410
bis(2-Chloroethyl) ether	111444	ND		410
bis(2-Chloroisopropyl)^ether	108601	ND		410
bis(2-Ethylhexyl)^phthalate	117817	580		410
p-Dimethylaminoazobenzene	60117	ND		410

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.2
1,1,2,2-Tetrachloroethane	79345	ND		6.2
1,1,2-Trichloroethane	79005	ND		6.2
1,1-Dichloroethane	75343	ND		6.2
1,1-Dichloroethene	75354	ND		6.2
1,2,3-Trichloropropane	96184	ND		6.2
1,2-Dichloroethane	107062	ND		6.2
1,2-Dichloropropane	78875	ND		6.2

Matrix : SEDIMENT

Client Description	SC-EE04-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.2
Bromodichloromethane	75274	ND		6.2
Bromoform	75252	ND		6.2
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.2
Carbon tetrachloride	56235	ND		6.2
Chlorobenzene	108907	ND		6.2
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.2
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		6.2
Dibromomethane	74953	ND		6.2
Dichlorodifluoromethane	75718	ND		25
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.2
Iodomethane	74884	ND		6.2
Methylene chloride	75092	2.1	J	6.2
None Detected	320100	ND		
Styrene	100425	ND		6.2
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.2
Toluene	108883	ND		6.2
Trichloroethene	79016	ND		6.2
Trichlorofluoromethane	75694	ND		6.2
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.2
cis-1,3-Dichloropropene	10061015	ND		6.2
trans-1,2-Dichloroethene	156605	ND		6.2
trans-1,3-Dichloropropene	10061026	ND		6.2
trans-1,4-Dichloro-^2-butene	110576	ND		6.2

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		21
4,4'-DDE	72559	ND		21
4,4'-DDT	50293	ND		21
Aldrin	309002	ND		11
Aroclor 1016	12674112	ND		210
Aroclor 1221	11104282	ND		210
Aroclor 1232	11141165	ND		210
Aroclor 1242	53469219	ND		210
Aroclor 1248	12672296	ND		210
Aroclor 1254	11097691	350	M	210

Matrix : SEDIMENT

Client Description	SC-EE04-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	570		210
Aroclor 1260	11096825	ND		210
Dieldrin	60571	ND		21
Endosulfan I	959988	ND		11
Endosulfan II	33213659	ND		21
Endosulfan sulfate	1031078	ND		21
Endrin	72208	ND		21
Endrin aldehyde	7421934	ND		21
Heptachlor	76448	ND		11
Heptachlor epoxide	1024573	ND		11
Methoxychlor	72435	ND		110
Toxaphene	8001352	ND		1100
alpha-BHC	319846	ND		11
alpha-Chlordane	5103719	ND		11
beta-BHC	319857	ND		11
delta-BHC	319868	ND		11
gamma-BHC (Lindane)	58899	ND		11
gamma-Chlordane	5103742	ND		11

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.62

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.064	J	0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.1		0.62

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1810		12.5
Antimony	7440360	ND		7.5
Barium	7440393	235		1.2
Beryllium	7440417	ND		0.25
Cadmium	7440439	3.6		0.62
Calcium	7440702	20500		25.0
Chromium	7440473	108		1.2
Cobalt	7440484	2.3		1.2
Copper	7440508	36.4		2.5
Iron	7439896	2900		12.5
Lead	7439921	245		6.2
Magnesium	7439954	1990		25.0
Manganese	7439965	98.7		1.2
Molybdenum	7439987	3.8		2.5
Nickel	7440020	23.1		5.0
Potassium	7440097	ND		625
Silver	7440224	ND		1.2

Matrix : SEDIMENT

Client Description	SC-EE04-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		625
Vanadium	7440622	7.1		1.2
Zinc	7440666	93.7		2.5

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	8660		500

Matrix : SEDIMENT

Client Description	SC-EE05-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	1.0	B	0.58

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		3800
1,2,4-Trichlorobenzene	120821	ND		3800
1,2-Dichlorobenzene	95501	ND		3800
1,3-Dichlorobenzene	541731	ND		3800
1,4-Dichlorobenzene	106467	ND		3800
1-Chloronaphthalene	90131	ND		29000
1-Naphthylamine	134327	ND		3800
2,3,4,6-Tetrachlorophenol	58902	ND		19000
2,4,5-Trichlorophenol	95954	ND		19000
2,4,6-Trichlorophenol	88062	ND		3800
2,4-Dichlorophenol	120832	ND		3800
2,4-Dimethylphenol	105679	ND		3800
2,4-Dinitrophenol	51285	ND		19000
2,4-Dinitrotoluene	121142	ND		3800
2,6-Dichlorophenol	87650	ND		3800
2,6-Dinitrotoluene	606202	ND		3800
2-Chloronaphthalene	91587	ND		3800
2-Chlorophenol	95578	ND		3800
2-Methylnaphthalene	91576	ND		3800
2-Methylphenol	95487	ND		3800
2-Naphthylamine	91598	ND		3800
2-Nitrophenol	88755	ND		3800
2-Picoline	109068	ND		3800
3,3'-Dichlorobenzidine	91941	ND		7600
3-Methylcholanthrene	56495	ND		3800
3-Nitroaniline	99092	ND		19000
3/4-Methylphenol	7820600	ND		3800
4,6-Dinitro-^2-methylphenol	534521	ND		19000
4-Aminobiphenyl	92671	ND		3800
4-Bromophenyl^phenyl ether	101553	ND		3800
4-Chloro-3-methylphenol	59507	ND		3800
4-Chloroaniline	106478	ND		3800
4-Chlorophenyl ^phenyl ether	7005723	ND		3800
4-Nitroaniline	100016	ND		19000
4-Nitrophenol	100027	ND		19000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		3800
9,10-Anthracenedione	84651	1900	2	2.3
Acenaphthene	83329	1300	J	3800
Acenaphthylene	208968	ND		3800
Acetophenone	98862	ND		3800
Aniline	62533	ND		3800
Anthracene	120127	1900	J	3800
Azobenzene	103333	ND		29000
Benzidine	92875	ND		29000
Benzo(a)anthracene	56553	6800	2	2.3
Benzo(a)anthracene	56553	7600		3800
Benzo(a)pyrene	50328	6800		3800
Benzo(b)fluoranthene	205992	5600		3800
Benzo(e)pyrene	192972	3400	2	2.3
Benzo(g,h,i)perylene	191242	3100	J	3800
Benzo(k)fluoranthene	207089	9500		3800
Benzoic acid	65850	ND		29000
Benzyl alcohol	100516	ND		3800
Brominated Compound	298984100	20000		
Brominated Compound	298984100	25000		
Brominated Compound	298984100	31000		
Brominated Compound	298984100	50000		
Brominated Compound	298984100	55000		
Brominated Compound	298984100	6500		
Butyl benzyl phthalate	85687	ND		3800
Chlorinated Compound	868877300	14000		

Matrix : SEDIMENT

Client Description	SC-EE05-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chlorinated Compound	868877300	24000		
Chlorinated Compound	868877300	3800		
Chlorinated Compound	868877300	41000		
Chlorinated Compound	868877300	48000		
Chlorinated Compound	868877300	52000		
Chlorinated Compound	868877300	65000		
Chrysene	218019	820	J	3800
Di-n-butyl phthalate	84742	ND		3800
Di-n-octyl phthalate	117840	ND		3800
Dibenz(a,h)anthracene	53703	1400	J	3800
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	710	J	3800
Diethyl phthalate	84662	ND		3800
Dimethyl phthalate	131113	ND		3800
Diphenylamine	122394	ND		3800
Ethyl methanesulfonate	62500	ND		3800
Fluoranthene	206440	21000		3800
Fluorene	86737	1200	J	3800
Hexachlorobenzene	118741	ND		3800
Hexachlorobutadiene	87683	ND		3800
Hexachlorocyclopentadiene	77474	ND		3800
Hexachloroethane	67721	ND		3800
Indeno(1,2,3-cd)pyrene	193395	3700	J	3800
Isophorone	78591	ND		3800
Methyl methanesulfonate	66273	ND		3800
N-Nitroso-di-^n-propylamine	621647	ND		3800
N-Nitroso-di-n-butylamine	924163	ND		3800
N-Nitrosodiphenylamine	86306	ND		3800
N-Nitrosopiperidine	100754	ND		3800
Naphthalene	91203	2100	J	3800
Naphthalene, 1,2,3,4-tetrachloro-	20020024	2100	2	2.3
Naphthalene, 1,3,7-trichloro-	55720371	2200	2	2.3
Naphthalene, 1,4,6,7-tetrachloro-	55720439	12000	2	2.3
Naphthalene, 1,4,6,7-tetrachloro-	55720439	18000	2	2.3
Naphthalene, 1,4,6,7-tetrachloro-	55720439	20000	2	2.3
Naphthalene, 1,4,6,7-tetrachloro-	55720439	3000	2	2.3
Naphthalene, 1,4,6,7-tetrachloro-	55720439	6600	2	2.3
Naphthalene, 2,3,6-trichloro-	55720406	8000	2	2.3
Naphthalene, heptachloro-	7992205200	20000	2	2.3
Nitrobenzene	98953	ND		3800
Pentachlorobenzene	608935	ND		3800
Pentachloronitrobenzene	82688	ND		19000
Pentachlorophenol	87865	ND		19000
Phenacetin	62442	ND		3800
Phenanthrene	85018	14000		3800
Phenol	108952	ND		3800
Pronamide	23950585	ND		3800
Pyrene	129000	14000		3800
a,a-Dimethylphenethyl-^amine	122098	ND		3800
bis(2-Chloroethoxy)^methane	111911	ND		3800
bis(2-Chloroethyl) ether	111444	ND		3800
bis(2-Chloroisopropyl)^ether	108601	ND		3800
bis(2-Ethylhexyl)^phthalate	117817	2000	J	3800
p-Dimethylaminoazobenzene	60117	ND		3800

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		5.8
1,1,2,2-Tetrachloroethane	79345	ND		5.8
1,1,2-Trichloroethane	79005	ND		5.8
1,1-Dichloroethane	75343	ND		5.8
1,1-Dichloroethene	75354	ND		5.8
1,2,3-Trichloropropane	96184	ND		5.8
1,2-Dichloroethane	107062	ND		5.8
1,2-Dichloropropane	78875	ND		5.8

Matrix : SEDIMENT

Client Description	SC-EE05-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	10	J	12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		5.8
Bromodichloromethane	75274	ND		5.8
Bromoform	75252	ND		5.8
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		5.8
Carbon tetrachloride	56235	ND		5.8
Chlorobenzene	108907	ND		5.8
Chloroethane	75003	ND		12
Chloroform	67663	ND		5.8
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		5.8
Dibromomethane	74953	ND		5.8
Dichlorodifluoromethane	75718	ND		23
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		23
Ethylbenzene	100414	ND		5.8
Iodomethane	74884	ND		5.8
Methylene chloride	75092	3.4	JB	5.8
None Detected	320100	ND		
Styrene	100425	ND		5.8
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.8
Toluene	108883	2.0	J	5.8
Trichloroethene	79016	ND		5.8
Trichlorofluoromethane	75694	ND		5.8
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		5.8
cis-1,3-Dichloropropene	10061015	ND		5.8
trans-1,2-Dichloroethene	156605	ND		5.8
trans-1,3-Dichloropropene	10061026	ND		5.8
trans-1,4-Dichloro-^2-butene	110576	ND		5.8

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3800
4,4'-DDE	72559	ND		3800
4,4'-DDT	50293	ND		3800
Aldrin	309002	ND		2000
Aroclor 1016	12674112	ND		38000
Aroclor 1221	11104282	ND		38000
Aroclor 1232	11141165	ND		38000
Aroclor 1242	53469219	ND		38000
Aroclor 1248	12672296	ND		38000
Aroclor 1254	11097691	ND		38000

Matrix : SEDIMENT

Client Description	SC-EE05-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		38000
Dieldrin	60571	13000		3800
Dieldrin	60571	17000		3800
Endosulfan I	959988	ND		2000
Endosulfan II	33213659	ND		3800
Endosulfan sulfate	1031078	ND		3800
Endrin	72208	ND		3800
Endrin aldehyde	7421934	ND		3800
Heptachlor	76448	3900		2000
Heptachlor epoxide	1024573	ND		2000
Methoxychlor	72435	ND		20000
Toxaphene	8001352	ND		200000
alpha-BHC	319846	ND		2000
alpha-Chlordane	5103719	ND		2000
beta-BHC	319857	ND		2000
delta-BHC	319868	ND		2000
gamma-BHC (Lindane)	58899	ND		2000
gamma-Chlordane	5103742	ND		2000

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	0.24	J	0.58

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.58

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.45		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	3.5		0.58

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	4730		11.6
Antimony	7440360	ND		7.0
Barium	7440393	606		1.2
Beryllium	7440417	0.37		0.23
Cadmium	7440439	103		0.58
Calcium	7440702	28500		23.2
Chromium	7440473	571		1.2
Cobalt	7440484	7.3		1.2
Copper	7440508	49.0		2.3
Iron	7439896	7350		11.6
Lead	7439921	97.1		5.8
Magnesium	7439954	5230		23.2
Manganese	7439965	786		1.2
Molybdenum	7439987	ND		2.3
Nickel	7440020	166		4.6
Potassium	7440097	ND		579
Silver	7440224	9.7		1.2

Matrix : SEDIMENT

Client Description	SC-EE05-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		579
Vanadium	7440622	13.4		1.2
Zinc	7440666	170		2.3

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	8050		500

Matrix : SEDIMENT

Client Description	SC-EE06-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		1.1

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		710
1,2,4-Trichlorobenzene	120821	ND		710
1,2-Dichlorobenzene	95501	ND		710
1,3-Dichlorobenzene	541731	ND		710
1,4-Dichlorobenzene	106467	ND		710
1-Chloronaphthalene	90131	ND		5300
1-Naphthylamine	134327	ND		710
2,3,4,6-Tetrachlorophenol	58902	ND		3400
2,4,5-Trichlorophenol	95954	ND		3400
2,4,6-Trichlorophenol	88062	ND		710
2,4-Dichlorophenol	120832	ND		710
2,4-Dimethylphenol	105679	ND		710
2,4-Dinitrophenol	51285	ND		3400
2,4-Dinitrotoluene	121142	ND		710
2,6-Dichlorophenol	87650	ND		710
2,6-Dinitrotoluene	606202	ND		710
2-Butanone, 1-bromo-3,3-dimethyl-	5469261	490	1	2.1
2-Chloronaphthalene	91587	ND		710
2-Chlorophenol	95578	ND		710
2-Methylnaphthalene	91576	ND		710
2-Methylphenol	95487	ND		710
2-Naphthylamine	91598	ND		710
2-Nitrophenol	88755	ND		710
2-Picoline	109068	ND		710
3,3'-Dichlorobenzidine	91941	ND		1400
3-Methylcholanthrene	56495	ND		710
3-Nitroaniline	99092	ND		3400
3/4-Methylphenol	7820600	ND		710
4,6-Dinitro-^2-methylphenol	534521	ND		3400
4-Aminobiphenyl	92671	ND		710
4-Bromophenyl^phenyl ether	101553	ND		710
4-Chloro-3-methylphenol	59507	ND		710
4-Chloroaniline	106478	ND		710
4-Chlorophenyl ^phenyl ether	7005723	ND		710
4-Nitroaniline	100016	ND		3400
4-Nitrophenol	100027	ND		3400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		710
Acenaphthene	83329	81	J	710
Acenaphthylene	208968	ND		710
Acetophenone	98862	ND		710
Aniline	62533	ND		710
Anthracene	120127	230	J	710
Azobenzene	103333	ND		5300
Benzidine	92875	ND		5300
Benzo(a)anthracene	56553	480	J	710
Benzo(a)pyrene	50328	470	J	710
Benzo(b)fluoranthene	205992	920		710
Benzo(g,h,i)perylene	191242	ND		710
Benzo(k)fluoranthene	207089	ND		710
Benzoic acid	65850	ND		5300
Benzyl alcohol	100516	ND		710
Butyl benzyl phthalate	85687	ND		710
Chrysene	218019	650	J	710
Di-n-butyl phthalate	84742	ND		710
Di-n-octyl phthalate	117840	ND		710
Dibenz(a,h)anthracene	53703	ND		710
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		710
Diethyl phthalate	84662	ND		710
Dimethyl phthalate	131113	ND		710
Diphenylamine	122394	ND		710

Matrix : SEDIMENT

Client Description	**SC-EE06-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethyl methanesulfonate	62500	ND		710
Fluoranthene	206440	1500		710
Fluorene	86737	99	J	710
Hexachlorobenzene	118741	ND		710
Hexachlorobutadiene	87683	ND		710
Hexachlorocyclopentadiene	77474	ND		710
Hexachloroethane	67721	ND		710
Indeno(1,2,3-cd)pyrene	193395	ND		710
Isophorone	78591	ND		710
Methyl methanesulfonate	66273	ND		710
N-Nitroso-di-^n-propylamine	621647	ND		710
N-Nitroso-di-n-butylamine	924163	ND		710
N-Nitrosodiphenylamine	86306	ND		710
N-Nitrosopiperidine	100754	ND		710
Naphthalene	91203	75	J	710
Nitrobenzene	98953	ND		710
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		710
Pentachloronitrobenzene	82688	ND		3400
Pentachlorophenol	87865	ND		3400
Phenacetin	62442	ND		710
Phenol	108952	ND		710
Pronamide	23950585	ND		710
Pyrene	129000	1100		710
Saturated Hydrocarbon: >C20	7319043800	1000		
Saturated Hydrocarbon: >C20	7319043800	1500		
Saturated Hydrocarbon: >C20	7319043800	2400		
Saturated Hydrocarbon: >C20	7319043800	410		
Saturated Hydrocarbon: >C20	7319043800	430		
Saturated Hydrocarbon: >C20	7319043800	4300		
Saturated Hydrocarbon: >C20	7319043800	450		
Saturated Hydrocarbon: >C20	7319043800	470		
Saturated Hydrocarbon: >C20	7319043800	560		
Saturated Hydrocarbon: >C20	7319043800	620		
Saturated Hydrocarbon: >C20	7319043800	660		
Saturated Hydrocarbon: >C20	7319043800	680		
Saturated Hydrocarbon: >C20	7319043800	730		
Saturated Hydrocarbon: >C20	7319043800	920		
Saturated Hydrocarbon: C10-C20	731904300	430		
Saturated Hydrocarbon: C10-C20	731904300	730		
a,a-Dimethylphenethyl-^amine	122098	ND		710
bis(2-Chloroethoxy)^methane	111911	ND		710
bis(2-Chloroethyl) ether	111444	ND		710
bis(2-Chloroisopropyl)^ether	108601	ND		710
bis(2-Ethylhexyl)^phthalate	117817	750		710
p-Dimethylaminoazobenzene	60117	ND		710

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		11
1,1,2,2-Tetrachloroethane	79345	ND		11
1,1,2-Trichloroethane	79005	ND		11
1,1-Dichloroethane	75343	ND		11
1,1-Dichloroethene	75354	ND		11
1,2,3-Trichloropropane	96184	ND		11
1,2-Dichloroethane	107062	ND		11
1,2-Dichloropropane	78875	ND		11
2-Butanone (MEK)	078933	55		21
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		21
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		21
6-Tridecane, 7-methyl-	24949426	32	I	2.1
Acetone	67641	60		21
Acrolein	107028	ND		210
Acrylonitrile	107131	ND		210

Matrix : SEDIMENT

Client Description	SC-EE06-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzene	71432	ND		11
Bromodichloromethane	75274	ND		11
Bromoform	75252	ND		11
Bromomethane	74839	ND		21
Carbon disulfide	75150	ND		11
Carbon tetrachloride	56235	ND		11
Chlorobenzene	108907	94		11
Chloroethane	75003	ND		21
Chloroform	67663	ND		11
Chloromethane	74873	ND		21
Dibromochloromethane	124481	ND		11
Dibromomethane	74953	ND		11
Dichlorodifluoromethane	75718	ND		43
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		43
Ethylbenzene	100414	ND		11
Iodomethane	74884	ND		11
Methylene chloride	75092	9.9	JB	11
Saturated Hydrocarbon: C10-C20	731904300	130		
Saturated Hydrocarbon: C10-C20	731904300	160		
Saturated Hydrocarbon: C10-C20	731904300	32		
Saturated Hydrocarbon: C10-C20	731904300	41		
Saturated Hydrocarbon: C10-C20	731904300	45		
Saturated Hydrocarbon: C10-C20	731904300	47		
Saturated Hydrocarbon: C10-C20	731904300	62		
Saturated Hydrocarbon: C10-C20	731904300	68		
Saturated Hydrocarbon: C10-C20	731904300	75		
Saturated Hydrocarbon: C10-C20	731904300	96		
Styrene	100425	ND		11
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		11
Toluene	108883	4.9	J	11
Trichloroethene	79016	ND		11
Trichlorofluoromethane	75694	ND		11
Vinyl acetate	108054	ND		21
Vinyl chloride	75014	ND		21
Xylenes (total)	1330207	ND		11
cis-1,3-Dichloropropene	10061015	ND		11
trans-1,2-Dichloroethene	156605	ND		11
trans-1,3-Dichloropropene	10061026	ND		11
trans-1,4-Dichloro-^2-butene	110576	ND		11

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		35
4,4'-DDE	72559	ND		35
4,4'-DDT	50293	ND		35
Aldrin	309002	41		18
Aldrin	309002	45		18
Aroclor 1016	12674112	ND		350
Aroclor 1221	11104282	ND		350
Aroclor 1232	11141165	ND		350
Aroclor 1242	53469219	ND		350
Aroclor 1248	12672296	ND		350
Aroclor 1254	11097691	600	M	350
Aroclor 1254	11097691	960		350
Aroclor 1260	11096825	ND		350
Dieldrin	60571	ND		35
Endosulfan I	959988	ND		18
Endosulfan II	33213659	ND		35
Endosulfan sulfate	1031078	ND		35
Endrin	72208	ND		35
Endrin aldehyde	7421934	ND		35
Heptachlor	76448	ND		18

Matrix : SEDIMENT

Client Description	SC-EE06-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Heptachlor epoxide	1024573	ND		18
Methoxychlor	72435	ND		180
Toxaphene	8001352	ND		1800
alpha-BHC	319846	ND		18
alpha-Chlordane	5103719	ND		18
beta-BHC	319857	ND		18
delta-BHC	319868	ND		18
gamma-BHC (Lindane)	58899	ND		18
gamma-Chlordane	5103742	ND		18

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		2.1

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.43	J	1.1

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.48		0.21

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	4.7		1.1

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	14700		21.4
Antimony	7440360	ND		12.8
Barium	7440393	629		2.1
Beryllium	7440417	0.88		0.43
Cadmium	7440439	44.0		1.1
Calcium	7440702	30900		42.7
Chromium	7440473	270		2.1
Cobalt	7440484	12.6		2.1
Copper	7440508	414		4.3
Iron	7439896	19000		21.4
Lead	7439921	113		10.7
Magnesium	7439954	5610		42.7
Manganese	7439965	281		2.1
Molybdenum	7439987	10.1		4.3
Nickel	7440020	87.8		8.5
Potassium	7440097	1990		1070
Silver	7440224	4.4		2.1
Sodium	7440235	1060	J	1070
Vanadium	7440622	47.1		2.1
Zinc	7440666	415		4.3

Matrix : SEDIMENT

Client Description	SC-EE06-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	37400		500

Matrix : SEDIMENT

Client Description	SC-EE07-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		400
1,2,4-Trichlorobenzene	120821	ND		400
1,2-Dichlorobenzene	95501	ND		400
1,3-Dichlorobenzene	541731	ND		400
1,4-Dichlorobenzene	106467	ND		400
1-Chloronaphthalene	90131	ND		3000
1-Naphthylamine	134327	ND		400
1-Propanone, 1-cyclopropyl-	6704194	180	2	2.4
2,3,4,6-Tetrachlorophenol	58902	ND		1900
2,4,5-Trichlorophenol	95954	ND		1900
2,4,6-Trichlorophenol	88062	ND		400
2,4-Dichlorophenol	120832	ND		400
2,4-Dimethylphenol	105679	ND		400
2,4-Dinitrophenol	51285	ND		1900
2,4-Dinitrotoluene	121142	ND		400
2,6-Dichlorophenol	87650	ND		400
2,6-Dinitrotoluene	606202	ND		400
2-Chloronaphthalene	91587	ND		400
2-Chlorophenol	95578	ND		400
2-Hexene, 4,4,5-trimethyl-	55702619	440	2	2.4
2-Methylnaphthalene	91576	ND		400
2-Methylphenol	95487	ND		400
2-Naphthylamine	91598	ND		400
2-Nitrophenol	88755	ND		400
2-Picoline	109068	ND		400
3,3'-Dichlorobenzidine	91941	ND		800
3-Methylcholanthrene	56495	ND		400
3-Nitroaniline	99092	ND		1900
3/4-Methylphenol	7820600	ND		400
4,6-Dinitro-^2-methylphenol	534521	ND		1900
4-Aminobiphenyl	92671	ND		400
4-Bromophenyl^phenyl ether	101553	ND		400
4-Chloro-3-methylphenol	59507	ND		400
4-Chloroaniline	106478	ND		400
4-Chlorophenyl ^phenyl ether	7005723	ND		400
4-Nitroaniline	100016	ND		1900
4-Nitrophenol	100027	ND		1900
7,12-Dimethylbenz(a)-^anthracene	57976	ND		400
7-Decen-2-one	35194333	220	1	1.2
Acenaphthene	83329	ND		400
Acenaphthylene	208968	ND		400
Acetophenone	98862	ND		400
Aniline	62533	ND		400
Anthracene	120127	ND		400
Azobenzene	103333	ND		3000
Benzidine	92875	ND		3000
Benzo(a)anthracene	56553	ND		400
Benzo(a)pyrene	50328	ND		400
Benzo(b)fluoranthene	205992	60	J	400
Benzo(g,h,i)perylene	191242	ND		400
Benzo(k)fluoranthene	207089	ND		400
Benzoic acid	65850	ND		3000
Benzyl alcohol	100516	ND		400
Butanoic acid, propyl ester	105668	160	1	1.2
Butyl benzyl phthalate	85687	ND		400
Chrysene	218019	45	J	400
Di-n-butyl phthalate	84742	ND		400
Di-n-octyl phthalate	117840	ND		400
Dibenz(a,h)anthracene	53703	ND		400
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		400

Matrix : SEDIMENT

Client Description	SC-EE07-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diethyl phthalate	84662	ND		400
Dimethyl phthalate	131113	ND		400
Diphenylamine	122394	ND		400
Ethyl methanesulfonate	62500	ND		400
Fluoranthene	206440	150	J	400
Fluorene	86737	ND		400
Hexachlorobenzene	118741	ND		400
Hexachlorobutadiene	87683	ND		400
Hexachlorocyclopentadiene	77474	ND		400
Hexachloroethane	67721	ND		400
Indeno(1,2,3-cd)pyrene	193395	ND		400
Isophorone	78591	ND		400
Methyl methanesulfonate	66273	ND		400
N-Nitroso-di-^n-propylamine	621647	ND		400
N-Nitroso-di-n-butylamine	924163	ND		400
N-Nitrosodiphenylamine	86306	ND		400
N-Nitrosopiperidine	100754	ND		400
Naphthalene	91203	ND		400
Nitrobenzene	98953	ND		400
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		400
Pentachloronitrobenzene	82688	ND		1900
Pentachlorophenol	87865	ND		1900
Phenacetin	62442	ND		400
Phenol	108952	ND		400
Pronamide	23950585	ND		400
Pyrene	129000	100	J	400
Saturated Hydrocarbon: >C20	7319043800	170		
Saturated Hydrocarbon: >C20	7319043800	220		
Saturated Hydrocarbon: >C20	7319043800	230		
Saturated Hydrocarbon: >C20	7319043800	240		
Saturated Hydrocarbon: >C20	7319043800	270		
Saturated Hydrocarbon: >C20	7319043800	280		
Saturated Hydrocarbon: >C20	7319043800	500		
Saturated Hydrocarbon: >C20	7319043800	ND		400
Saturated Hydrocarbon: C10-C20	731904300	240		
Saturated Hydrocarbon: C10-C20	731904300	480		
a,a-Dimethylphenethyl-^amine	122098	ND		400
bis(2-Chloroethoxy)^methane	111911	ND		400
bis(2-Chloroethyl) ether	111444	ND		400
bis(2-Chloroisopropyl)^ether	108601	ND		400
bis(2-Ethylhexyl)^phthalate	117817	81	J	400
p-Dimethylaminoazobenzene	60117	ND		400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1
1,2-Dichloropropane	78875	ND		6.1
1-Nonadecene	18435455	64	1	1.2
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
3-Decen-2-one, 3-methyl-	54411039	35	1	1.2
4,5-Nonadiene	821749	63	1	1.2
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1

Matrix : SEDIMENT

Client Description	SC-EE07-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Cyclohexane, 2,4-diethyl-1-methyl-	61142709	44	1	1.2
Cyclopentane, 1,2-dibutyl-	62199524	19	1	1.2
Cyclopentane, 1-(2-methylbutyl)-	53366533	24	1	1.2
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	4.1	JB	6.1
Pulegone	89827	46	1	1.2
Saturated Hydrocarbon: C10-C20	731904300	11		
Saturated Hydrocarbon: C10-C20	731904300	42		
Saturated Hydrocarbon: C10-C20	731904300	51		
Saturated Hydrocarbon: C10-C20	731904300	76		
Saturated Hydrocarbon: C10-C20	731904300	98		
Styrene	100425	ND		6.1
Tetrachloroethene	127184	ND		6.1
Toluene	108883	ND		6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Unsaturated Hydrocarbon	4628492500	16		
Unsaturated Hydrocarbon	4628492500	19		
Unsaturated Hydrocarbon	4628492500	56		
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-^2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4.0
4,4'-DDE	72559	ND		4.0
4,4'-DDT	50293	ND		4.0
Aldrin	309002	1.1	J	2.1
Aldrin	309002	ND		2.1
Aroclor 1016	12674112	ND		40
Aroclor 1221	11104282	ND		40
Aroclor 1232	11141165	ND		40
Aroclor 1242	53469219	ND		40
Aroclor 1248	12672296	ND		40
Aroclor 1254	11097691	70	M	40
Aroclor 1254	11097691	71		40
Aroclor 1260	11096825	ND		40
Dieldrin	60571	ND		4.0
Endosulfan I	959988	ND		2.1
Endosulfan II	33213659	ND		4.0
Endosulfan sulfate	1031078	ND		4.0
Endrin	72208	ND		4.0
Endrin aldehyde	7421934	ND		4.0
Heptachlor	76448	ND		2.1
Heptachlor epoxide	1024573	ND		2.1

Matrix : SEDIMENT

Client Description	SC-EE07-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Methoxychlor	72435	ND		21
Toxaphene	8001352	ND		210
alpha-BHC	319846	ND		2.1
alpha-Chlordane	5103719	ND		2.1
beta-BHC	319857	ND		2.1
delta-BHC	319868	ND		2.1
gamma-BHC (Lindane)	58899	ND		2.1
gamma-Chlordane	5103742	ND		2.1

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.34	J	1.2

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	420		12.1
Antimony	7440360	ND		7.3
Barium	7440393	35.1		1.2
Beryllium	7440417	ND		0.24
Cadmium	7440439	2.8		0.61
Calcium	7440702	58900		24.2
Chromium	7440473	18.0		1.2
Cobalt	7440484	1.3		1.2
Copper	7440508	5.9		2.4
Iron	7439896	1090		12.1
Lead	7439921	4.6	J	6.1
Magnesium	7439954	599		24.2
Manganese	7439965	49.0		1.2
Molybdenum	7439987	ND		2.4
Nickel	7440020	3.9	J	4.8
Potassium	7440097	ND		605
Silver	7440224	ND		1.2
Sodium	7440235	164	J	605
Vanadium	7440622	3.5		1.2
Zinc	7440666	17.8		2.4

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	1170		500

Matrix : SEDIMENT

Client Description	SC-EE07-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Matrix : SEDIMENT

Client Description	SC-EE08-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.73

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		960
1,2,4-Trichlorobenzene	120821	ND		960
1,2-Dichlorobenzene	95501	ND		960
1,3-Dichlorobenzene	541731	ND		960
1,4-Dichlorobenzene	106467	ND		960
1-Chloronaphthalene	90131	ND		7300
1-Naphthylamine	134327	ND		960
2,3,4,6-Tetrachlorophenol	58902	ND		4700
2,4,5-Trichlorophenol	95954	ND		4700
2,4,6-Trichlorophenol	88062	ND		960
2,4-Dichlorophenol	120832	ND		960
2,4-Dimethylphenol	105679	ND		960
2,4-Dinitrophenol	51285	ND		4700
2,4-Dinitrotoluene	121142	ND		960
2,6-Dichlorophenol	87650	ND		960
2,6-Dinitrotoluene	606202	ND		960
2-Chloronaphthalene	91587	ND		960
2-Chlorophenol	95578	ND		960
2-Methylnaphthalene	91576	ND		960
2-Methylphenol	95487	ND		960
2-Naphthylamine	91598	ND		960
2-Nitrophenol	88755	ND		960
2-Nonylphenol	136834	7400	2	2.9
2-Nonylphenol	136834	8900	2	2.9
2-Picoline	109068	ND		960
2-Pyridinecarboxylic acid, 5-butyl-	536696	9600	2	2.9
3,3'-Dichlorobenzidine	91941	ND		1900
3-Methylcholanthrene	56495	ND		960
3-Nitroaniline	99092	ND		4700
3/4-Methylphenol	7820600	ND		960
4,6-Dinitro-^2-methylphenol	534521	ND		4700
4-Aminobiphenyl	92671	ND		960
4-Bromophenyl^phenyl ether	101553	ND		960
4-Chloro-3-methylphenol	59507	ND		960
4-Chloroaniline	106478	ND		960
4-Chlorophenyl ^phenyl ether	7005723	ND		960
4-Nitroaniline	100016	ND		4700
4-Nitrophenol	100027	ND		4700
7,12-Dimethylbenz(a)-^anthracene	57976	ND		960
Acenaphthene	83329	ND		960
Acenaphthylene	208968	ND		960
Acetamide, N-(2,6-dimethylphenyl)-	2198530	5800	1	1.5
Acetophenone	98862	ND		960
Aniline	62533	ND		960
Anthracene	120127	150	J	960
Azobenzene	103333	ND		7300
Benzidine	92875	ND		7300
Benzo(a)anthracene	56553	360	J	960
Benzo(a)pyrene	50328	280	J	960
Benzo(b)fluoranthene	205992	560	J	960
Benzo(g,h,i)perylene	191242	ND		960
Benzo(k)fluoranthene	207089	ND		960
Benzoic acid	65850	ND		7300
Benzoic acid, 4-cyano-, 4-methylphenyl ester	32792635	1400	1	1.5
Benzyl alcohol	100516	ND		960
Brominated Compound	298984100	3800	1	1.5
Brominated Compound	298984100	930	1	1.5
Butyl benzyl phthalate	85687	ND		960
Chrysene	218019	430	J	960
Cyclohexane, (2-decyldodecyl)-	6704003	960	1	1.5
Di-n-butyl phthalate	84742	ND		960

Matrix : SEDIMENT

Client Description	**SC-EE08-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		960
Dibenz(a,h)anthracene	53703	ND		960
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		960
Diethyl phthalate	84662	ND		960
Dimethyl phthalate	131113	ND		960
Diphenylamine	122394	ND		960
Ethyl methanesulfonate	62500	ND		960
Fluoranthene	206440	1000		960
Fluorene	86737	ND		960
Hexachlorobenzene	118741	ND		960
Hexachlorobutadiene	87683	ND		960
Hexachlorocyclopentadiene	77474	ND		960
Hexachloroethane	67721	ND		960
Hexanoic acid, 6-(diethoxyphosphinyl)-, ethyl ethe	54965296	2000	1	1.5
Indeno(1,2,3-cd)pyrene	193395	ND		960
Isophorone	78591	ND		960
Methanimidamide, N,N'-bis(3,5-dimethylphenyl)-	64107057	1400	1	1.5
Methyl methanesulfonate	66273	ND		960
N-Nitroso-di-^n-propylamine	621647	ND		960
N-Nitroso-di-n-butylamine	924163	ND		960
N-Nitrosodiphenylamine	86306	ND		960
N-Nitrosopiperidine	100754	ND		960
Naphthalene	91203	ND		960
Nitrobenzene	98953	ND		960
None Detected	320100	ND		
Oxygenated Hydrocarbon	5886108200	1300	1	1.5
Oxygenated Hydrocarbon	5886108200	2000	1	1.5
Pentachlorobenzene	608935	ND		960
Pentachloronitrobenzene	82688	ND		4700
Pentachlorophenol	87865	ND		4700
Phenacetin	62442	ND		960
Phenol	108952	ND		960
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	3600	2	2.9
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	6300	2	2.9
Phenol, nonyl-	25154523	1100	1	1.5
Phenol, nonyl-	25154523	12000	2	2.9
Phenol, nonyl-	25154523	3900	1	1.5
Phenol, nonyl-	25154523	4700	2	2.9
Phosphine sulfide, triphenyl-	3878453	1200	2	2.9
Pronamide	23950585	ND		960
Propane, 1,1'-oxybis[2-chloro-	54460967	1400	1	1.5
Pyrene	129000	850	J	960
Saturated Hydrocarbon: >C20	7319043800	1200		
Siloxane	73400	1500		
a,a-Dimethylphenethyl-^amine	122098	ND		960
bis(2-Chloroethoxy)^methane	111911	ND		960
bis(2-Chloroethyl) ether	111444	ND		960
bis(2-Chloroisopropyl)^ether	108601	ND		960
bis(2-Ethylhexyl)^phthalate	117817	600	J	960
p-Dimethylaminoazobenzene	60117	ND		960

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		7.3
1,1,2,2-Tetrachloroethane	79345	ND		7.3
1,1,2-Trichloroethane	79005	ND		7.3
1,1-Dichloroethane	75343	ND		7.3
1,1-Dichloroethene	75354	ND		7.3
1,2,3-Trichloropropane	96184	ND		7.3
1,2-Dichloroethane	107062	ND		7.3
1,2-Dichloropropane	78875	ND		7.3
2-Butanone (MEK)	078933	16		15
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		15

Matrix : SEDIMENT

Client Description	SC-EE08-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		15
Acetone	67641	18		15
Acrolein	107028	ND		150
Acrylonitrile	107131	ND		150
Benzene	71432	ND		7.3
Bromodichloromethane	75274	ND		7.3
Bromoform	75252	ND		7.3
Bromomethane	74839	ND		15
Carbon disulfide	75150	ND		7.3
Carbon tetrachloride	56235	ND		7.3
Chlorobenzene	108907	ND		7.3
Chloroethane	75003	ND		15
Chloroform	67663	ND		7.3
Chloromethane	74873	ND		15
Dibromochloromethane	124481	ND		7.3
Dibromomethane	74953	ND		7.3
Dichlorodifluoromethane	75718	ND		29
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		29
Ethylbenzene	100414	ND		7.3
Iodomethane	74884	ND		7.3
Methylene chloride	75092	4.9	JB	7.3
Saturated Hydrocarbon: C10-C20	731904300	19		
Saturated Hydrocarbon: C10-C20	731904300	23		
Styrene	100425	ND		7.3
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		7.3
Toluene	108883	3.0	J	7.3
Trichloroethene	79016	ND		7.3
Trichlorofluoromethane	75694	ND		7.3
Vinyl acetate	108054	ND		15
Vinyl chloride	75014	ND		15
Xylenes (total)	1330207	ND		7.3
cis-1,3-Dichloropropene	10061015	ND		7.3
trans-1,2-Dichloroethene	156605	ND		7.3
trans-1,3-Dichloropropene	10061026	ND		7.3
trans-1,4-Dichloro-^2-butene	110576	ND		7.3

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		24
4,4'-DDD	72548	ND		4.8
4,4'-DDE	72559	ND		24
4,4'-DDE	72559	ND		4.8
4,4'-DDT	50293	ND		24
4,4'-DDT	50293	ND		4.8
Aldrin	309002	ND		12
Aldrin	309002	ND		2.5
Aroclor 1016	12674112	ND		240
Aroclor 1016	12674112	ND		48
Aroclor 1221	11104282	ND		240
Aroclor 1221	11104282	ND		48
Aroclor 1232	11141165	ND		240

Matrix : SEDIMENT

Client Description	SC-EE08-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1232	11141165	ND		48
Aroclor 1242	53469219	ND		240
Aroclor 1242	53469219	ND		48
Aroclor 1248	12672296	ND		240
Aroclor 1248	12672296	ND		48
Aroclor 1254	11097691	ND		240
Aroclor 1254	11097691	ND		48
Aroclor 1260	11096825	ND		240
Aroclor 1260	11096825	ND		48
Dieldrin	60571	25		4.8
Dieldrin	60571	48		24
Endosulfan I	959988	ND		12
Endosulfan I	959988	ND		2.5
Endosulfan II	33213659	ND		24
Endosulfan II	33213659	ND		4.8
Endosulfan sulfate	1031078	ND		24
Endosulfan sulfate	1031078	ND		4.8
Endrin	72208	ND		24
Endrin	72208	ND		4.8
Endrin aldehyde	7421934	ND		24
Endrin aldehyde	7421934	ND		4.8
Heptachlor	76448	ND		12
Heptachlor	76448	ND		2.5
Heptachlor epoxide	1024573	ND		12
Heptachlor epoxide	1024573	ND		2.5
Methoxychlor	72435	ND		120
Methoxychlor	72435	ND		25
Toxaphene	8001352	ND		1200
Toxaphene	8001352	ND		250
alpha-BHC	319846	ND		12
alpha-BHC	319846	ND		2.5
alpha-Chlordane	5103719	ND		12
alpha-Chlordane	5103719	ND		2.5
beta-BHC	319857	ND		12
beta-BHC	319857	ND		2.5
delta-BHC	319868	ND		12
delta-BHC	319868	ND		2.5
gamma-BHC (Lindane)	58899	ND		12
gamma-BHC (Lindane)	58899	ND		2.5
gamma-Chlordane	5103742	ND		12
gamma-Chlordane	5103742	ND		2.5

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.73

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.5

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.11	J	0.15

Matrix : SEDIMENT

Client Description	SC-EE08-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.7		1.5

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	2420		14.6
Antimony	7440360	ND		8.7
Barium	7440393	194		1.5
Beryllium	7440417	ND		0.29
Cadmium	7440439	12.6		0.73
Calcium	7440702	10900		29.1
Chromium	7440473	44.3		1.5
Cobalt	7440484	5.1		1.5
Copper	7440508	8.0		2.9
Iron	7439896	5580		14.6
Lead	7439921	12.5		7.3
Magnesium	7439954	1380		29.1
Manganese	7439965	890		1.5
Molybdenum	7439987	1.0	J	2.9
Nickel	7440020	14.1		5.8
Potassium	7440097	240	J	728
Silver	7440224	ND		1.5
Sodium	7440235	214	J	728
Vanadium	7440622	11.2		1.5
Zinc	7440666	18.8		2.9

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	5870		500

Matrix : SEDIMENT

Client Description	SC-EE09-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.62

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1':4',1"-Terphenyl, 2,4,6-trichloro-	57346619	1100	1	1.2
1,2,4,5-Tetrachloro-^benzene	95943	ND		410
1,2,4-Trichlorobenzene	120821	ND		410
1,2-Dichlorobenzene	95501	ND		410
1,3-Dichlorobenzene	541731	ND		410
1,4-Dichlorobenzene	106467	ND		410
1-Chloronaphthalene	90131	ND		3100
1-Naphthylamine	134327	ND		410
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		410
2,4-Dichlorophenol	120832	ND		410
2,4-Dimethylphenol	105679	ND		410
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		410
2,6-Dichlorophenol	87650	ND		410
2,6-Dinitrotoluene	606202	ND		410
2-Chloronaphthalene	91587	ND		410
2-Chlorophenol	95578	ND		410
2-Methylnaphthalene	91576	74	J	410
2-Methylphenol	95487	ND		410
2-Naphthylamine	91598	ND		410
2-Nitrophenol	88755	ND		410
2-Nonylphenol	136834	5800	2	2.5
2-Picoline	109068	ND		410
3,3'-Dichlorobenzidine	91941	ND		820
3-Methylcholanthrene	56495	ND		410
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		410
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		410
4-Bromophenyl^phenyl ether	101553	ND		410
4-Chloro-3-methylphenol	59507	ND		410
4-Chloroaniline	106478	ND		410
4-Chlorophenyl ^phenyl ether	7005723	ND		410
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		410
Acenaphthene	83329	60	J	410
Acenaphthylene	208968	ND		410
Acetamide, N-(2,6-dimethylphenyl)-	2198530	3700		
Acetophenone	98862	ND		410
Aniline	62533	ND		410
Anthracene	120127	100	J	410
Azobenzene	103333	ND		3100
Benzene, 1-(1,1-dimethylethyl)-4-ethoxy-	17269942	5800	1	1.2
Benzidine	92875	ND		3100
Benzo(a)anthracene	56553	210	J	410
Benzo(a)pyrene	50328	200	J	410
Benzo(b)fluoranthene	205992	400	J	410
Benzo(g,h,i)perylene	191242	ND		410
Benzo(k)fluoranthene	207089	ND		410
Benzoic acid	65850	ND		3100
Benzyl alcohol	100516	ND		410
Butyl benzyl phthalate	85687	ND		410
Chrysene	218019	290	J	410
Di-n-butyl phthalate	84742	ND		410
Di-n-octyl phthalate	117840	82	J	410
Dibenz(a,h)anthracene	53703	ND		410
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		410

Matrix : SEDIMENT

Client Description	SC-EE09-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diethyl phthalate	84662	ND		410
Dimethyl phthalate	131113	ND		410
Diphenylamine	122394	ND		410
Ethyl methanesulfonate	62500	ND		410
Fluoranthene	206440	670		410
Fluorene	86737	ND		410
Hexachlorobenzene	118741	ND		410
Hexachlorobutadiene	87683	ND		410
Hexachlorocyclopentadiene	77474	ND		410
Hexachloroethane	67721	ND		410
Indeno(1,2,3-cd)pyrene	193395	ND		410
Isophorone	78591	ND		410
Methyl methanesulfonate	66273	ND		410
N-Nitroso-di-^n-propylamine	621647	ND		410
N-Nitroso-di-n-butylamine	924163	ND		410
N-Nitrosodiphenylamine	86306	ND		410
N-Nitrosopiperidine	100754	ND		410
Naphthalene	91203	45	J	410
Nitrobenzene	98953	ND		410
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		410
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		410
Phenol	108952	45	J	410
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	2900		
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	5100		2.5
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	940	2	2.5
Phenol, 4-dodecyl-	104438	4800	2	2.5
Phenol, nonyl-	25154523	2200	1	1.2
Phenol, nonyl-	25154523	3300	2	2.5
Phenol, nonyl-	25154523	7400	2	2.5
Phosphine sulfide, triphenyl-	3878453	2500	2	2.5
Phosphoric acid, 2-ethylhexyl diphenyl ester	1241947	1100	2	2.5
Pronamide	23950585	ND		410
Pyrene	129000	600		410
Saturated Hydrocarbon: >C20	7319043800	1100		
Saturated Hydrocarbon: >C20	7319043800	1200		
Saturated Hydrocarbon: >C20	7319043800	870		
Saturated Hydrocarbon: >C20	7319043800	920		
Saturated Hydrocarbon: >C20	7319043800	940		
Saturated Hydrocarbon: C10-C20	731904300	730		
Saturated Hydrocarbon: C10-C20	731904300	780		
Saturated Hydrocarbon: C10-C20	731904300	790		
Saturated Hydrocarbon: C10-C20	731904300	840		
Sulfur, mol. (S8)	10544500	770	2	2.5
a,a-Dimethylphenethyl-^amine	122098	ND		410
bis(2-Chloroethoxy)^methane	111911	ND		410
bis(2-Chloroethyl) ether	111444	ND		410
bis(2-Chloroisopropyl)^ether	108601	ND		410
bis(2-Ethylhexyl)^phthalate	117817	1200		410
p-Dimethylaminoazobenzene	60117	ND		410

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.2
1,1,2,2-Tetrachloroethane	79345	ND		6.2
1,1,2-Trichloroethane	79005	ND		6.2
1,1-Dichloroethane	75343	ND		6.2
1,1-Dichloroethene	75354	ND		6.2
1,2,3-Trichloropropane	96184	ND		6.2
1,2-Dichloroethane	107062	ND		6.2
1,2-Dichloropropane	78875	ND		6.2
1-Undecanal	112447	31	1	1.2
2-Butanone (MEK)	078933	ND		12

Matrix : SEDIMENT

Client Description	SC-EE09-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	15		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.2
Bromodichloromethane	75274	ND		6.2
Bromoform	75252	ND		6.2
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.2
Carbon tetrachloride	56235	ND		6.2
Chlorobenzene	108907	ND		6.2
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.2
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		6.2
Dibromomethane	74953	ND		6.2
Dichlorodifluoromethane	75718	ND		25
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.2
Iodomethane	74884	ND		6.2
Methylene chloride	75092	6.7	B	6.2
Saturated Hydrocarbon: C10-C20	731904300	110		
Saturated Hydrocarbon: C10-C20	731904300	120		
Saturated Hydrocarbon: C10-C20	731904300	140		
Saturated Hydrocarbon: C10-C20	731904300	200		
Saturated Hydrocarbon: C10-C20	731904300	29		
Saturated Hydrocarbon: C10-C20	731904300	36		
Saturated Hydrocarbon: C10-C20	731904300	51		
Saturated Hydrocarbon: C10-C20	731904300	52		
Saturated Hydrocarbon: C10-C20	731904300	97		
Styrene	100425	ND		6.2
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	1.5	J	6.2
Toluene	108883	ND		6.2
Trichloroethene	79016	1.7	J	6.2
Trichlorofluoromethane	75694	ND		6.2
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.2
cis-1,3-Dichloropropene	10061015	ND		6.2
trans-1,2-Dichloroethene	156605	ND		6.2
trans-1,3-Dichloropropene	10061026	ND		6.2
trans-1,4-Dichloro-^2-butene	110576	ND		6.2

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		8.2
4,4'-DDE	72559	ND		8.2
4,4'-DDT	50293	ND		8.2
Aldrin	309002	1.9	MJ	4.2
Aldrin	309002	9.9		4.2
Aroclor 1016	12674112	ND		82
Aroclor 1221	11104282	ND		82
Aroclor 1232	11141165	ND		82
Aroclor 1242	53469219	ND		82
Aroclor 1248	12672296	ND		82
Aroclor 1254	11097691	280		82
Aroclor 1260	11096825	ND		82
Dieldrin	60571	ND		8.2

Matrix : SEDIMENT

Client Description	SC-EE09-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Endosulfan I	959988	ND		4.2
Endosulfan II	33213659	ND		8.2
Endosulfan sulfate	1031078	ND		8.2
Endrin	72208	ND		8.2
Endrin aldehyde	7421934	ND		8.2
Heptachlor	76448	ND		4.2
Heptachlor epoxide	1024573	ND		4.2
Methoxychlor	72435	ND		42
Toxaphene	8001352	ND		420
alpha-BHC	319846	ND		4.2
alpha-Chlordane	5103719	ND		4.2
beta-BHC	319857	ND		4.2
delta-BHC	319868	ND		4.2
gamma-BHC (Lindane)	58899	ND		4.2
gamma-Chlordane	5103742	ND		4.2

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		2.5

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.1		0.62

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	3820		12.4
Antimony	7440360	ND		7.4
Barium	7440393	294		1.2
Beryllium	7440417	0.21	J	0.25
Cadmium	7440439	27.0		0.62
Calcium	7440702	40300		24.8
Chromium	7440473	167		1.2
Cobalt	7440484	4.7		1.2
Copper	7440508	15.4		2.5
Iron	7439896	6430		12.4
Lead	7439921	61.0		6.2
Magnesium	7439954	5010		24.8
Manganese	7439965	277		1.2
Molybdenum	7439987	2.6		2.5
Nickel	7440020	29.5		5.0
Potassium	7440097	528	J	620
Silver	7440224	3.9		1.2
Sodium	7440235	332	J	620
Vanadium	7440622	14.9		1.2
Zinc	7440666	58.3		2.5

Matrix : SEDIMENT

Client Description	SC-EE09-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	54800		500

Matrix : SEDIMENT

Client Description	SC-EE10-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.64

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		420
1,2,4-Trichlorobenzene	120821	ND		420
1,2-Dichlorobenzene	95501	ND		420
1,3-Dichlorobenzene	541731	ND		420
1,4-Dichlorobenzene	106467	ND		420
1-Chloronaphthalene	90131	ND		3200
1-Naphthylamine	134327	ND		420
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		420
2,4-Dichlorophenol	120832	ND		420
2,4-Dimethylphenol	105679	ND		420
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		420
2,5-Furandione, 3-(dodecenyl)dihydro-	25377735	550	2	2.6
2,6-Dichlorophenol	87650	ND		420
2,6-Dinitrotoluene	606202	ND		420
2-Chloronaphthalene	91587	ND		420
2-Chlorophenol	95578	ND		420
2-Methylnaphthalene	91576	ND		420
2-Methylphenol	95487	ND		420
2-Naphthylamine	91598	ND		420
2-Nitrophenol	88755	ND		420
2-Nonylphenol	136834	880	2	2.6
2-Picoline	109068	ND		420
3,3'-Dichlorobenzidine	91941	ND		850
3-Methylcholanthrene	56495	ND		420
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		420
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		420
4-Bromophenyl^phenyl ether	101553	ND		420
4-Chloro-3-methylphenol	59507	ND		420
4-Chloroaniline	106478	ND		420
4-Chlorophenyl ^phenyl ether	7005723	ND		420
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		420
9-Octadecene, 1-methoxy-, (E)-	56847019	770	1	1.3
Acenaphthene	83329	ND		420
Acenaphthylene	208968	ND		420
Acetophenone	98862	ND		420
Aniline	62533	ND		420
Anthracene	120127	100	J	420
Azobenzene	103333	ND		3200
Benzidine	92875	ND		3200
Benzo(a)anthracene	56553	230	J	420
Benzo(a)pyrene	50328	180	J	420
Benzo(b)fluoranthene	205992	320	J	420
Benzo(g,h,i)perylene	191242	ND		420
Benzo(k)fluoranthene	207089	ND		420
Benzoic acid	65850	ND		3200
Benzyl alcohol	100516	ND		420
Butyl benzyl phthalate	85687	ND		420
Chrysene	218019	240	J	420
Cyclohexane, 1-(1,5-dimethylhexyl)-4-(4-methylpent	56009202	630	2	2.6
Cyclohexaneethanol, .beta., 4-dimethyl-, trans-	5113940	600	1	1.3
Di-n-butyl phthalate	84742	ND		420
Di-n-octyl phthalate	117840	ND		420
Dibenz(a,h)anthracene	53703	ND		420
Dibenz(a,j)acridine	224420	ND		--

Matrix : SEDIMENT

Client Description	SC-EE10-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenzofuran	132649	ND		420
Diethyl phthalate	84662	ND		420
Dimethyl phthalate	131113	ND		420
Diphenylamine	122394	ND		420
Ethyl methanesulfonate	62500	ND		420
Fluoranthene	206440	920		420
Fluorene	86737	ND		420
Hexachlorobenzene	118741	ND		420
Hexachlorobutadiene	87683	ND		420
Hexachlorocyclopentadiene	77474	ND		420
Hexachloroethane	67721	ND		420
Indeno(1,2,3-cd)pyrene	193395	ND		420
Isophorone	78591	ND		420
Methyl methanesulfonate	66273	ND		420
N-Nitroso-di-^n-propylamine	621647	ND		420
N-Nitroso-di-n-butylamine	924163	ND		420
N-Nitrosodiphenylamine	86306	ND		420
N-Nitrosopiperidine	100754	ND		420
Naphthalene	91203	ND		420
Nitrobenzene	98953	ND		420
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		420
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	1000	1	1.3
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	520	1	1.3
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	550	1	1.3
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	560	2	2.6
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	580	1	1.3
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	680	2	2.6
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	870	1	1.3
Phenacetin	62442	ND		420
Phenol	108952	ND		420
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	760	2	2.6
Phenol, 4-(2,2,3,3,-tetramethylbutyl)-	54932784	850	2	2.6
Phenol, 4-4'-(1,2-diethyl-1,2-^ethanediyl)bis-	5635507	960	2	2.6
Phenol, nonyl-	25154523	1000	2	2.6
Phenol, nonyl-	25154523	580	2	2.6
Phosphine sulfide, triphenyl-	3878453	1100	2	2.6
Pronamide	23950585	ND		420
Pyrene	129000	600		420
Saturated Hydrocarbon: >C20	7319043800	1000		
Saturated Hydrocarbon: >C20	7319043800	540		
Saturated Hydrocarbon: >C20	7319043800	780		
Saturated Hydrocarbon: >C20	7319043800	850		
Saturated Hydrocarbon: >C20	7319043800	960		
a,a-Dimethylphenethyl-^amine	122098	ND		420
bis(2-Chloroethoxy)^methane	111911	ND		420
bis(2-Chloroethyl) ether	111444	ND		420
bis(2-Chloroisopropyl)^ether	108601	ND		420
bis(2-Ethylhexyl)^phthalate	117817	1500		420
p-Dimethylaminoazobenzene	60117	ND		420

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.4
1,1,2,2-Tetrachloroethane	79345	ND		6.4
1,1,2-Trichloroethane	79005	ND		6.4
1,1-Dichloroethane	75343	ND		6.4
1,1-Dichloroethene	75354	ND		6.4
1,2,3-Trichloropropane	96184	ND		6.4
1,2-Dichloroethane	107062	ND		6.4
1,2-Dichloropropane	78875	ND		6.4
2-Butanone (MEK)	078933	ND		13
2-Chloroethyl vinyl ether	110758	ND		--

Matrix : SEDIMENT

Client Description	SC-EE10-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Hexanone	591786	ND		13
3,4-Octadiene, 7-methyl-	37050058	14	1	1.3
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
6-Dodecene,(E)-	7206179	36	1	1.3
Acetone	67641	ND		13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.4
Bicyclo[4.1.0]heptan-3-one, 4,7,7-^trimethyl-,[1R!	4176049	27	1	1.3
Bromodichloromethane	75274	ND		6.4
Bromoform	75252	ND		6.4
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.4
Carbon tetrachloride	56235	ND		6.4
Chlorobenzene	108907	ND		6.4
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.4
Chloromethane	74873	ND		13
Cyclododecane	294622	18	1	1.3
Cyclohexane, 1,2-diethyl-1-methyl-	61141795	17	1	1.3
Cyclopentane, 1-methyl-2-propyl-	3728572	12	1	1.3
Decanedioic acid, didecyl ester	2432895	17	1	1.3
Decanenitrile	1975786	20	1	1.3
Dibromochloromethane	124481	ND		6.4
Dibromomethane	74953	ND		6.4
Dichlorodifluoromethane	75718	ND		26
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		26
Ethylbenzene	100414	ND		6.4
Iodomethane	74884	ND		6.4
Methylene chloride	75092	8.5	B	6.4
Naphthalene, decahydro-2,3-dimethyl-	1008806	18	1	1.3
None Detected	320100	ND		
Pulegone	89827	19	1	1.3
Siloxane	73400	15		
Spiro[4.5]decane, 6-methylene-	19144015	14	1	1.3
Styrene	100425	ND		6.4
Tetrachloroethene	127184	ND		6.4
Toluene	108883	ND		6.4
Trichloroethene	79016	ND		6.4
Trichlorofluoromethane	75694	ND		6.4
Undecane, 4-methyl-	2980690	14	1	1.3
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.4
cis-1,3-Dichloropropene	10061015	ND		6.4
trans-1,2-Dichloroethene	156605	ND		6.4
trans-1,3-Dichloropropene	10061026	ND		6.4
trans-1,4-Dichloro-^2-butene	110576	ND		6.4

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		8.5
4,4'-DDE	72559	ND		8.5
4,4'-DDT	50293	ND		8.5
Aldrin	309002	ND		4.4
Aroclor 1016	12674112	ND		85
Aroclor 1221	11104282	ND		85
Aroclor 1232	11141165	ND		85
Aroclor 1242	53469219	ND		85
Aroclor 1248	12672296	ND		85
Aroclor 1254	11097691	330	M	85
Aroclor 1254	11097691	400		85
Aroclor 1260	11096825	ND		85
Dieldrin	60571	ND		8.5

Matrix : SEDIMENT

Client Description	SC-EE10-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Endosulfan I	959988	ND		4.4
Endosulfan II	33213659	ND		8.5
Endosulfan sulfate	1031078	ND		8.5
Endrin	72208	ND		8.5
Endrin aldehyde	7421934	ND		8.5
Heptachlor	76448	46		4.4
Heptachlor	76448	46	M	4.4
Heptachlor epoxide	1024573	ND		4.4
Methoxychlor	72435	ND		44
Toxaphene	8001352	ND		440
alpha-BHC	319846	ND		4.4
alpha-Chlordane	5103719	ND		4.4
beta-BHC	319857	ND		4.4
delta-BHC	319868	ND		4.4
gamma-BHC (Lindane)	58899	ND		4.4
gamma-Chlordane	5103742	ND		4.4

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.3

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.29	J	0.64

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.17		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	2.8		0.64

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	3470		12.8
Antimony	7440360	ND		7.7
Barium	7440393	1530		1.3
Beryllium	7440417	ND		0.26
Cadmium	7440439	26.5		0.64
Calcium	7440702	32700		25.6
Chromium	7440473	260		1.3
Cobalt	7440484	5.7		1.3
Copper	7440508	35.8		2.6
Iron	7439896	13100		12.8
Lead	7439921	30.0		6.4
Magnesium	7439954	16200		25.6
Manganese	7439965	1120		1.3
Molybdenum	7439987	ND		2.6
Nickel	7440020	96.7		5.1
Potassium	7440097	ND		640
Silver	7440224	5.8		1.3
Sodium	7440235	ND		640
Vanadium	7440622	13.8		1.3

Matrix : SEDIMENT

Client Description	SC-EE10-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Zinc	7440666	58.2		2.6

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	3740		500

Matrix : SEDIMENT

Client Description	SC-EW01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		1.2

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1600
1,2,4-Trichlorobenzene	120821	ND		1600
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	11000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	12000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	13000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	15000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	22000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	24000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	26000	2	4.8
1,2-Benzenedicarboxylic acid, diisodecyl ester	26761400	60000	2	4.8
1,2-Benzenedicarboxylic acid, ditridecyl ester	119062	10000	2	4.8
1,2-Benzenedicarboxylic acid, ditridecyl ester	119062	13000	2	4.8
1,2-Benzenedicarboxylic acid, ditridecyl ester	119062	16000	2	4.8
1,2-Dichlorobenzene	95501	ND		1600
1,3-Dichlorobenzene	541731	ND		1600
1,4-Dichlorobenzene	106467	ND		1600
1-Chloronaphthalene	90131	ND		12000
1-Naphthylamine	134327	ND		1600
2,3,4,6-Tetrachlorophenol	58902	ND		7600
2,4,5-Trichlorophenol	95954	ND		7600
2,4,6-Trichlorophenol	88062	ND		1600
2,4-Dichlorophenol	120832	ND		1600
2,4-Dimethylphenol	105679	ND		1600
2,4-Dinitrophenol	51285	ND		7600
2,4-Dinitrotoluene	121142	ND		1600
2,5-Furandione, 3-(dodecenyl)dihydro-	25377735	41000	1	2.4
2,6-Dichlorophenol	87650	ND		1600
2,6-Dinitrotoluene	606202	ND		1600
2-Chloronaphthalene	91587	ND		1600
2-Chlorophenol	95578	ND		1600
2-Methylnaphthalene	91576	ND		1600
2-Methylphenol	95487	ND		1600
2-Naphthylamine	91598	ND		1600
2-Nitrophenol	88755	ND		1600
2-Picoline	109068	ND		1600
3,3'-Dichlorobenzidine	91941	ND		3200
3-Methylcholanthrene	56495	ND		1600
3-Nitroaniline	99092	ND		7600
3/4-Methylphenol	7820600	ND		1600
4,6-Dinitro-^2-methylphenol	534521	ND		7600
4-Aminobiphenyl	92671	ND		1600
4-Bromophenyl^phenyl ether	101553	ND		1600
4-Chloro-3-methylphenol	59507	ND		1600
4-Chloroaniline	106478	ND		1600
4-Chlorophenyl ^phenyl ether	7005723	ND		1600
4-Nitroaniline	100016	ND		7600
4-Nitrophenol	100027	ND		7600
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1600
Acenaphthene	83329	ND		1600
Acenaphthylene	208968	ND		1600
Acetophenone	98862	ND		1600
Aniline	62533	ND		1600
Anthracene	120127	280	J	1600
Azobenzene	103333	ND		12000
Benzidine	92875	ND		12000
Benzo(a)anthracene	56553	1800		1600
Benzo(a)pyrene	50328	2000		1600
Benzo(b)fluoranthene	205992	4400		1600
Benzo(g,h,i)perylene	191242	ND		1600
Benzo(k)fluoranthene	207089	ND		1600
Benzoic acid	65850	ND		12000

Matrix : SEDIMENT

Client Description	SC-EW01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzyl alcohol	100516	ND		1600
Butyl benzyl phthalate	85687	ND		1600
Chrysene	218019	2600		1600
Cyclohexanone, 5-methyl-2-(1-methylethenyl)-, tran	29606799	9500	2	4.8
Di-n-butyl phthalate	84742	ND		1600
Di-n-octyl phthalate	117840	ND		1600
Dibenz(a,h)anthracene	53703	ND		1600
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1600
Diethyl phthalate	84662	ND		1600
Dimethyl phthalate	131113	ND		1600
Diphenylamine	122394	ND		1600
Ethyl methanesulfonate	62500	ND		1600
Fluoranthene	206440	4300		1600
Fluorene	86737	ND		1600
Hexachlorobenzene	118741	ND		1600
Hexachlorobutadiene	87683	ND		1600
Hexachlorocyclopentadiene	77474	ND		1600
Hexachloroethane	67721	ND		1600
Indeno(1,2,3-cd)pyrene	193395	ND		1600
Isophorone	78591	ND		1600
Methyl methanesulfonate	66273	ND		1600
N-Nitroso-di-^n-propylamine	621647	ND		1600
N-Nitroso-di-n-butylamine	924163	ND		1600
N-Nitrosodiphenylamine	86306	ND		1600
N-Nitrosopiperidine	100754	ND		1600
Naphthalene	91203	ND		1600
Nitrobenzene	98953	ND		1600
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		1600
Pentachloronitrobenzene	82688	ND		7600
Pentachlorophenol	87865	ND		7600
Pentalene, octahydro-1-(2-octyldecyl)-	55401655	38000	1	2.4
Phenacetin	62442	ND		1600
Phenol	108952	ND		1600
Pronamide	23950585	ND		1600
Pyrene	129000	3700		1600
Saturated Hydrocarbon: >C20	7319043800	10000		
Saturated Hydrocarbon: >C20	7319043800	11000		
Saturated Hydrocarbon: >C20	7319043800	12000		
Saturated Hydrocarbon: >C20	7319043800	21000		
Saturated Hydrocarbon: >C20	7319043800	45000		
a,a-Dimethylphenethyl-^amine	122098	ND		1600
bis(2-Chloroethoxy)^methane	111911	ND		1600
bis(2-Chloroethyl) ether	111444	ND		1600
bis(2-Chloroisopropyl)^ether	108601	ND		1600
bis(2-Ethylhexyl)^phthalate	117817	14000		1600
p-Dimethylaminoazobenzene	60117	ND		1600

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		12
1,1,2,2-Tetrachloroethane	79345	ND		12
1,1,2-Trichloroethane	79005	ND		12
1,1-Dichloroethane	75343	ND		12
1,1-Dichloroethene	75354	ND		12
1,2,3-Trichloropropane	96184	ND		12
1,2-Dichloroethane	107062	ND		12
1,2-Dichloropropane	78875	ND		12
1-Eicosene	3452071	190	1	2.4
2-Butanone (MEK)	078933	15	J	24
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		24
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		24
4-Octene, 2,6-dimethyl-, [S-(Z)]-	62960774	120	1	2.4

Matrix : SEDIMENT

Client Description	SC-EW01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Acetone	67641	130		24
Acrolein	107028	ND		240
Acrylonitrile	107131	ND		240
Benzene	71432	ND		12
Bicyclo[4.1.0]heptan-3-one, 4,7,7-^trimethyl-,[1R!	4176049	120	1	2.4
Bromodichloromethane	75274	ND		12
Bromoform	75252	ND		12
Bromomethane	74839	ND		24
Carbon disulfide	75150	2.6	J	12
Carbon tetrachloride	56235	ND		12
Chlorobenzene	108907	ND		12
Chloroethane	75003	ND		24
Chloroform	67663	ND		12
Chloromethane	74873	ND		24
Cyclohexane, 1,1-dimethyl-2-propyl-	81983713	120	1	2.4
Cyclohexane, 1-ethyl-1-methyl-	4926903	130	1	2.4
Cyclohexane, 2-butyl-1,1,3-trimethyl-	54676390	120	1	2.4
Cyclohexane, pentyl-	4292926	170	1	2.4
Decane, 3-methyl-	13151343	170	1	2.4
Dibromochloromethane	124481	ND		12
Dibromomethane	74953	ND		12
Dichlorodifluoromethane	75718	ND		48
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		48
Ethylbenzene	100414	ND		12
Heptane, 4-propyl-	3178298	110	2	4.8
Heptane, 5-ethyl-2-methyl-	13475780	290	2	4.8
Iodomethane	74884	ND		12
Methylene chloride	75092	5.3	BJ	12
Naphthalene, decahydro-	91178	140	1	2.4
Nonane, 3-methyl-	5911046	130	1	2.4
Siloxane	73400	450		
Siloxane	73400	550		
Styrene	100425	ND		12
Tetrachloroethene	127184	ND		12
Toluene	108883	6.5	J	12
Trichloroethene	79016	ND		12
Trichlorofluoromethane	75694	ND		12
Unknown	57200	160		
Vinyl acetate	108054	ND		24
Vinyl chloride	75014	19	J	24
Xylenes (total)	1330207	ND		12
cis-1,3-Dichloropropene	10061015	ND		12
trans-1,2-Dichloroethene	156605	ND		12
trans-1,3-Dichloropropene	10061026	ND		12
trans-1,4-Dichloro-^2-butene	110576	ND		12

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		790
4,4'-DDE	72559	ND		790
4,4'-DDT	50293	ND		790
Aldrin	309002	ND		410
Aroclor 1016	12674112	ND		7900
Aroclor 1221	11104282	ND		7900
Aroclor 1232	11141165	ND		7900
Aroclor 1242	53469219	ND		7900
Aroclor 1248	12672296	ND		7900
Aroclor 1254	11097691	29000		7900
Aroclor 1254	11097691	30000		7900
Aroclor 1260	11096825	ND		7900
Dieldrin	60571	ND		790
Endosulfan I	959988	ND		410
Endosulfan II	33213659	ND		790
Endosulfan sulfate	1031078	ND		790

Matrix : SEDIMENT

Client Description	SC-EW01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Endrin	72208	ND		790
Endrin aldehyde	7421934	ND		790
Heptachlor	76448	ND		410
Heptachlor epoxide	1024573	ND		410
Methoxychlor	72435	ND		4100
Toxaphene	8001352	ND		41000
alpha-BHC	319846	ND		410
alpha-Chlordane	5103719	ND		410
beta-BHC	319857	ND		410
delta-BHC	319868	ND		410
gamma-BHC (Lindane)	58899	ND		410
gamma-Chlordane	5103742	ND		410

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	0.010	J	1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	1.9	J	4.8

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.95		0.24

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	4.1		1.2

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	18600		23.9
Antimony	7440360	ND		14.3
Barium	7440393	756		2.4
Beryllium	7440417	1.5		0.48
Cadmium	7440439	66.3		1.2
Calcium	7440702	18300		47.7
Chromium	7440473	649		2.4
Cobalt	7440484	134		2.4
Copper	7440508	747		4.8
Iron	7439896	37100		23.9
Lead	7439921	285		11.9
Magnesium	7439954	7250		47.7
Manganese	7439965	403		2.4
Molybdenum	7439987	97.0		4.8
Nickel	7440020	4170		9.5
Potassium	7440097	2800		1190
Silver	7440224	3.6		2.4
Sodium	7440235	2680		1190
Vanadium	7440622	89.4		2.4
Zinc	7440666	1380		4.8

Matrix : SEDIMENT

Client Description	SC-EW01-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	44700		500

Matrix : SEDIMENT

Client Description	SC-EW02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.67

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(R)-(-)-(z)-14-methyl-8-hexadecen-1-ol	30689782	630	1	1.3
1,2,4,5-Tetrachloro-^benzene	95943	ND		440
1,2,4-Trichlorobenzene	120821	ND		440
1,2-Benzenedicarboxylic acid, diisononyl ester	28553120	750	1	1.3
1,2-Dichlorobenzene	95501	ND		440
1,3-Dichlorobenzene	541731	ND		440
1,4-Dichlorobenzene	106467	ND		440
1-Chloronaphthalene	90131	ND		3300
1-Naphthylamine	134327	ND		440
1-Penten-3-one, 2-methyl-	25044013	430	2	2.7
2,3,4,6-Tetrachlorophenol	58902	ND		2100
2,4,5-Trichlorophenol	95954	ND		2100
2,4,6-Trichlorophenol	88062	ND		440
2,4-Dichlorophenol	120832	ND		440
2,4-Dimethylphenol	105679	ND		440
2,4-Dinitrophenol	51285	ND		2100
2,4-Dinitrotoluene	121142	ND		440
2,6-Dichlorophenol	87650	ND		440
2,6-Dinitrotoluene	606202	ND		440
2-Chloronaphthalene	91587	ND		440
2-Chlorophenol	95578	ND		440
2-Methylnaphthalene	91576	ND		440
2-Methylphenol	95487	ND		440
2-Naphthylamine	91598	ND		440
2-Nitrophenol	88755	ND		440
2-Picoline	109068	ND		440
3,3'-Dichlorobenzidine	91941	ND		880
3-Buten-2-ol, 2,3-dimethyl-	10473139	480	1	1.3
3-Methylcholanthrene	56495	ND		440
3-Nitroaniline	99092	ND		2100
3/4-Methylphenol	7820600	ND		440
4,6-Dinitro-^2-methylphenol	534521	ND		2100
4,7-Methano-1H-indene, octahydro-	6004382	1200	2	2.7
4-Aminobiphenyl	92671	ND		440
4-Bromophenyl^phenyl ether	101553	ND		440
4-Chloro-3-methylphenol	59507	ND		440
4-Chloroaniline	106478	ND		440
4-Chlorophenyl ^phenyl ether	7005723	ND		440
4-Nitroaniline	100016	ND		2100
4-Nitrophenol	100027	ND		2100
7,12-Dimethylbenz(a)-^anthracene	57976	ND		440
9-Hexadecenoic acid	2091294	760	2	2.7
9-Octadecenoic acid (Z)-, 2-hydroxyethyl ester	4500010	720	1	1.3
Acenaphthene	83329	ND		440
Acenaphthylene	208968	ND		440
Acetophenone	98862	ND		440
Aniline	62533	ND		440
Anthracene	120127	140	J	440
Azobenzene	103333	ND		3300
Benzidine	92875	ND		3300
Benzo(a)anthracene	56553	350	J	440
Benzo(a)pyrene	50328	310	J	440
Benzo(b)fluoranthene	205992	480		440
Benzo(g,h,i)perylene	191242	ND		440
Benzo(k)fluoranthene	207089	ND		440
Benzoic acid	65850	ND		3300
Benzyl alcohol	100516	ND		440
Butyl benzyl phthalate	85687	760	2	2.7
Butyl benzyl phthalate	85687	ND		440
Chrysene	218019	420	J	440
Decanoic Acid, Decyl Ester	1654860	800	2	2.7

Matrix : SEDIMENT

Client Description	SC-EW02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-butyl phthalate	84742	ND		440
Di-n-octyl phthalate	117840	ND		440
Dibenz(a,h)anthracene	53703	ND		440
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		440
Diethyl phthalate	84662	ND		440
Dimethyl phthalate	131113	ND		440
Diphenylamine	122394	ND		440
Ethyl methanesulfonate	62500	ND		440
Fluoranthene	206440	1100		440
Fluorene	86737	55	J	440
Hexachlorobenzene	118741	ND		440
Hexachlorobutadiene	87683	ND		440
Hexachlorocyclopentadiene	77474	ND		440
Hexachloroethane	67721	ND		440
Hexadecanoic acid	57103	1500	2	2.7
Indeno(1,2,3-cd)pyrene	193395	ND		440
Isophorone	78591	ND		440
Lupeol	545471	480	1	1.3
Methyl methanesulfonate	66273	ND		440
N-Nitroso-di-^n-propylamine	621647	ND		440
N-Nitroso-di-n-butylamine	924163	ND		440
N-Nitrosodiphenylamine	86306	ND		440
N-Nitrosopiperidine	100754	ND		440
Naphthalene	91203	ND		440
Nitrobenzene	98953	ND		440
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		440
Pentachloronitrobenzene	82688	ND		2100
Pentachlorophenol	87865	ND		2100
Phenacetin	62442	ND		440
Phenol	108952	ND		440
Pronamide	23950585	ND		440
Pyrene	129000	780		440
Saturated Hydrocarbon: >C20	7319043800	1200		
Saturated Hydrocarbon: >C20	7319043800	1500		
Saturated Hydrocarbon: >C20	7319043800	450		
Saturated Hydrocarbon: >C20	7319043800	570		
Saturated Hydrocarbon: >C20	7319043800	590		
Saturated Hydrocarbon: C10-C20	731904300	410		
Saturated Hydrocarbon: C10-C20	731904300	490		
Stannane, tributylchloro-	1461229	2000	1	1.3
a,a-Dimethylphenethyl-^amine	122098	ND		440
bis(2-Chloroethoxy)^methane	111911	ND		440
bis(2-Chloroethyl) ether	111444	ND		440
bis(2-Chloroisopropyl)^ether	108601	ND		440
bis(2-Ethylhexyl)^phthalate	117817	610		440
cis-9, 10-Epoxyoctadecan-1-ol	13980126	560	2	2.7
p-Dimethylaminoazobenzene	60117	ND		440

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.7
1,1,2,2-Tetrachloroethane	79345	ND		6.7
1,1,2-Trichloroethane	79005	ND		6.7
1,1-Dichloroethane	75343	ND		6.7
1,1-Dichloroethene	75354	ND		6.7
1,2,3-Trichloropropane	96184	ND		6.7
1,2-Dichloroethane	107062	ND		6.7
1,2-Dichloropropane	78875	ND		6.7
2-Butanone (MEK)	078933	ND		13
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4,7-Methano-1H-indene, octahydro-	6004382	110	2	2.7
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13

Matrix : SEDIMENT

Client Description	SC-EW02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Acetone	67641	2.6	J	13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.7
Bromodichloromethane	75274	ND		6.7
Bromoform	75252	ND		6.7
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.7
Carbon tetrachloride	56235	ND		6.7
Chlorobenzene	108907	ND		6.7
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.7
Chloromethane	74873	ND		13
Dibromochloromethane	124481	ND		6.7
Dibromomethane	74953	ND		6.7
Dichlorodifluoromethane	75718	ND		27
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		27
Ethylbenzene	100414	ND		6.7
Iodomethane	74884	ND		6.7
Methylene chloride	75092	3.6	BJ	6.7
None Detected	320100	ND		
Styrene	100425	ND		6.7
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.7
Toluene	108883	ND		6.7
Trichloroethene	79016	ND		6.7
Trichlorofluoromethane	75694	ND		6.7
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.7
cis-1,3-Dichloropropene	10061015	ND		6.7
trans-1,2-Dichloroethene	156605	ND		6.7
trans-1,3-Dichloropropene	10061026	ND		6.7
trans-1,4-Dichloro-^2-butene	110576	ND		6.7

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		44
4,4'-DDE	72559	ND		44
4,4'-DDT	50293	ND		44
Aldrin	309002	ND		23
Aroclor 1016	12674112	ND		440
Aroclor 1221	11104282	ND		440
Aroclor 1232	11141165	ND		440
Aroclor 1242	53469219	ND		440
Aroclor 1248	12672296	ND		440
Aroclor 1254	11097691	890		440
Aroclor 1254	11097691	980		440
Aroclor 1260	11096825	ND		440
Dieldrin	60571	ND		44
Endosulfan I	959988	ND		23
Endosulfan II	33213659	ND		44

Matrix : SEDIMENT

Client Description	SC-EW02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Endosulfan sulfate	1031078	ND		44
Endrin	72208	ND		44
Endrin aldehyde	7421934	ND		44
Heptachlor	76448	ND		23
Heptachlor epoxide	1024573	ND		23
Methoxychlor	72435	ND		230
Toxaphene	8001352	ND		2300
alpha-BHC	319846	ND		23
alpha-Chlordane	5103719	ND		23
beta-BHC	319857	ND		23
delta-BHC	319868	ND		23
gamma-BHC (Lindane)	58899	ND		23
gamma-Chlordane	5103742	ND		23

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.3

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.67

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	2.0		0.67

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	3990		13.3
Antimony	7440360	ND		8.0
Barium	7440393	507		1.3
Beryllium	7440417	0.33		0.27
Cadmium	7440439	3.6		0.67
Calcium	7440702	27500		26.7
Chromium	7440473	94.3		1.3
Cobalt	7440484	5.0		1.3
Copper	7440508	17.3		2.7
Iron	7439896	7540		13.3
Lead	7439921	68.6		6.7
Magnesium	7439954	3110		26.7
Manganese	7439965	307		1.3
Molybdenum	7439987	3.2		2.7
Nickel	7440020	105		5.3
Potassium	7440097	ND		667
Silver	7440224	5.9		1.3
Sodium	7440235	ND		667
Vanadium	7440622	15.7		1.3
Zinc	7440666	122		2.7

Matrix : SEDIMENT

Client Description	SC-EW02-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	8410		500

Matrix : SEDIMENT

Client Description	**SC-EW03-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		400
1,2,4-Trichlorobenzene	120821	ND		400
1,2-Dichlorobenzene	95501	ND		400
1,3-Dichlorobenzene	541731	ND		400
1,4-Dichlorobenzene	106467	ND		400
1-Chloronaphthalene	90131	ND		3100
1-Naphthylamine	134327	ND		400
1-Propanone, 1-cyclopropyl-	6704194	220	2	2.4
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		400
2,4-Dichlorophenol	120832	ND		400
2,4-Dimethylphenol	105679	ND		400
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		400
2,6-Dichlorophenol	87650	ND		400
2,6-Dinitrotoluene	606202	ND		400
2-Chloronaphthalene	91587	ND		400
2-Chlorophenol	95578	ND		400
2-Methylnaphthalene	91576	ND		400
2-Methylphenol	95487	ND		400
2-Naphthylamine	91598	ND		400
2-Nitrophenol	88755	ND		400
2-Picoline	109068	ND		400
3,3'-Dichlorobenzidine	91941	ND		810
3-Methylcholanthrene	56495	ND		400
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		400
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		400
4-Bromophenyl^phenyl ether	101553	ND		400
4-Chloro-3-methylphenol	59507	ND		400
4-Chloroaniline	106478	ND		400
4-Chlorophenyl ^phenyl ether	7005723	ND		400
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		400
Acenaphthene	83329	ND		400
Acenaphthylene	208968	ND		400
Acetophenone	98862	ND		400
Aniline	62533	ND		400
Anthracene	120127	ND		400
Azobenzene	103333	ND		3100
Benzidine	92875	ND		3100
Benzo(a)anthracene	56553	ND		400
Benzo(a)pyrene	50328	ND		400
Benzo(b)fluoranthene	205992	ND		400
Benzo(g,h,i)perylene	191242	ND		400
Benzo(k)fluoranthene	207089	ND		400
Benzoic acid	65850	ND		3100
Benzyl alcohol	100516	ND		400
Butyl benzyl phthalate	85687	ND		400
Chrysene	218019	ND		400
Di-n-butyl phthalate	84742	ND		400
Di-n-octyl phthalate	117840	ND		400
Dibenz(a,h)anthracene	53703	ND		400
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		400
Diethyl phthalate	84662	ND		400
Dimethyl phthalate	131113	ND		400
Diphenylamine	122394	ND		400

Matrix : SEDIMENT

Client Description	SC-EW03-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethyl methanesulfonate	62500	ND		400
Fluoranthene	206440	ND		400
Fluorene	86737	ND		400
Hexachlorobenzene	118741	ND		400
Hexachlorobutadiene	87683	ND		400
Hexachlorocyclopentadiene	77474	ND		400
Hexachloroethane	67721	ND		400
Indeno(1,2,3-cd)pyrene	193395	ND		400
Isophorone	78591	ND		400
Methyl methanesulfonate	66273	ND		400
N-Nitroso-di-^n-propylamine	621647	ND		400
N-Nitroso-di-n-butylamine	924163	ND		400
N-Nitrosodiphenylamine	86306	ND		400
N-Nitrosopiperidine	100754	ND		400
Naphthalene	91203	ND		400
Nitrobenzene	98953	ND		400
Pentachlorobenzene	608935	ND		400
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		400
Phenol	108952	ND		400
Pronamide	23950585	ND		400
Pyrene	129000	ND		400
Saturated Hydrocarbon: >C20	7319043800	180		
Saturated Hydrocarbon: >C20	7319043800	240		
Saturated Hydrocarbon: C10-C20	731904300	200		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		400
bis(2-Chloroethoxy)^methane	111911	ND		400
bis(2-Chloroethyl) ether	111444	ND		400
bis(2-Chloroisopropyl)^ether	108601	ND		400
bis(2-Ethylhexyl)^phthalate	117817	140	J	400
p-Dimethylaminoazobenzene	60117	ND		400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1
1,2-Dichloropropane	78875	ND		6.1
2-Butanone (MEK)	078933	ND		12

Matrix : SEDIMENT

Client Description	SC-EW03-SD-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4,7-Methano-1H-indene, octahydro-	6004382	21	2	2.4
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	1.6	BJ	6.1
None Detected	320100	ND		
Siloxane	73400	15		
Styrene	100425	ND		6.1
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.1
Toluene	108883	ND		6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-^2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		20
4,4'-DDE	72559	ND		20
4,4'-DDT	50293	ND		20
Aldrin	309002	ND		10
Aroclor 1016	12674112	ND		200
Aroclor 1221	11104282	ND		200
Aroclor 1232	11141165	ND		200
Aroclor 1242	53469219	ND		200
Aroclor 1248	12672296	ND		200
Aroclor 1254	11097691	360		200
Aroclor 1254	11097691	380		200

Matrix : SEDIMENT

Client Description	**SC-EW03-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		200
Dieldrin	60571	ND		20
Endosulfan I	959988	ND		10
Endosulfan II	33213659	ND		20
Endosulfan sulfate	1031078	ND		20
Endrin	72208	ND		20
Endrin aldehyde	7421934	ND		20
Heptachlor	76448	ND		10
Heptachlor epoxide	1024573	ND		10
Methoxychlor	72435	ND		100
Toxaphene	8001352	ND		1000
alpha-BHC	319846	ND		10
alpha-Chlordane	5103719	ND		10
beta-BHC	319857	ND		10
delta-BHC	319868	ND		10
gamma-BHC (Lindane)	58899	ND		10
gamma-Chlordane	5103742	ND		10

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.61

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.69		0.61

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1300		12.2
Antimony	7440360	ND		7.3
Barium	7440393	1640		1.2
Beryllium	7440417	ND		0.24
Cadmium	7440439	ND		0.61
Calcium	7440702	52800		24.5
Chromium	7440473	40.6		1.2
Cobalt	7440484	3.0		1.2
Copper	7440508	1.1	J	2.4
Iron	7439896	5370		12.2
Lead	7439921	7.5		6.1
Magnesium	7439954	8280		24.5
Manganese	7439965	584		1.2
Molybdenum	7439987	ND		2.4
Nickel	7440020	5.5		4.9
Potassium	7440097	189	J	612
Silver	7440224	ND		1.2
Sodium	7440235	126	J	612

Matrix : SEDIMENT

Client Description	**SC-EW03-SD-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Vanadium	7440622	12.4		1.2
Zinc	7440666	24.9		2.4

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	1100		500

Section B

First Ecological Assessment
Surface Water Data

Matrix : SURF-H2O

Client Description	CC-EC01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(2-Fluorophenyl)acetone	2836820	4.6	2	2.0
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	4.6	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chlorinated Compound	868877300	4.8		
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10

Matrix : SURF-H2O

Client Description	CC-EC01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-butoxy-, phosphate (3:1)	78513	88	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 6	9382400	ND		10
TID Compound 7	9382500	ND		10
TID Compound 8	9382600	ND		10
TID Compound 9	9382700	ND		10
TID Compound 10	9382201	ND		10
TID Compound 11	9382401	ND		10
TID Compound 12	9382501	ND		10
TID Compound 13	9382601	ND		10
TID Compound 14	9382701	ND		10
TID Compound 15	9382800	ND		10
TID Compound 16	9382901	ND		10
TID Compound 17	9382001	ND		10
TID Compound 18	9382101	ND		10
TID Compound 19	9382202	ND		10
TID Compound 20	9382402	ND		10
TID Compound 21	9382502	ND		10
TID Compound 22	9382602	ND		10
TID Compound 23	9382702	ND		10
TID Compound 24	9382801	ND		10
TID Compound 25	9382902	ND		10
Tebuthiuron	34014181	4.6	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	1.6	J	10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	CC-EC01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	CC-EC01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0021	J	0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0013	J	0.0050

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00031		0.00030
Copper	7440508	0.0042		0.0020
Lead	7439921	0.0026		0.0010
Silver	7440224	ND		0.00010

Matrix : SURF-H2O

Client Description	CC-EC01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.27		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.22		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	50.1	B	0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.0079	J	0.020
Iron	7439896	0.23		0.10
Magnesium	7439954	20.9		0.20
Manganese	7439965	0.19		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	7.0		5.0
Silver	7440224	ND		0.010
Sodium	7440235	103		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.030		0.020

Matrix : SURF-H2O

Client Description	CC-EC02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	4.7	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10

Matrix : SURF-H2O

Client Description	CC-EC02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethanol, 2-butoxy-, phosphate (3:1)	78513	110	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	CC-EC02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	29		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	2.1	JB	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	CC-EC02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0029	J	0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	ND		0.0050

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.030

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	ND		0.00030
Copper	7440508	0.0041		0.0020
Lead	7439921	0.0024		0.0010
Silver	7440224	ND		0.00010

Matrix : SURF-H2O

Client Description	CC-EC02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.48		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.19		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	54.6	B	0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.0074	J	0.020
Iron	7439896	0.37		0.10
Magnesium	7439954	21.3		0.20
Manganese	7439965	0.076		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	5.8		5.0
Silver	7440224	ND		0.010
Sodium	7440235	111		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.025		0.020

Matrix : SURF-H2O

Client Description	SC-EE01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Cyclopentanedione, 2-bromo-	14203248	18	1	1.0
1,3-Cyclopentanedione, 2-bromo-	14203248	18	2	2.0
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
1-Propene, 1,1,2-trichloro-	21400259	4.2	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chlorocyclohexanol	1561860	16	2	2.0
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-one	930687	5.9	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzenediazonium, 2-hydroxy-, hydroxide, inner sal	29906363	13	1	1.0
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Cyclohexane, 1,3-dichloro-, trans-	24955622	12	1	1.0
Cyclohexanol, 2-bromo-, cis-	16536575	21	2	2.0
Di-n-butyl phthalate	84742	ND		10

Matrix : SURF-H2O

Client Description	SC-EE01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-(diethylamino)-	100378	14	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	5.0	J	10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	**SC-EE01-SW-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	2.2	JB	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0027	J	0.0050

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	ND		0.00030
Copper	7440508	0.0058		0.0020
Lead	7439921	0.0011		0.0010
Silver	7440224	ND		0.00010

Matrix : SURF-H2O

Client Description	**SC-EE01-SW-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/28/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.44		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	41.3	B	0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.0092	J	0.020
Iron	7439896	ND		0.10
Magnesium	7439954	19.9		0.20
Manganese	7439965	0.0046	J	0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	1.5	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	12.9		5.0
Vanadium	7440622	0.014		0.010
Zinc	7440666	0.014	J	0.020

Matrix : SURF-H2O

Client Description	SC-EE02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(threo-2-Bromo-1-methylpropyl)cyanamide	85782214	21	1	1.0
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Cyclopentanedione, 2-bromo-	14203248	79	2	2.0
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2(5H)-Furanone, 5,5'-(1,4-phenylenedinitrilo)bis-	55000367	18	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-(hydroxymethyl)-5,5-dime	116256	140	1	1.0
2,4-Imidazolidinedione, 1-(hydroxymethyl)-5,5-dime	116256	18	1	1.0
2,4-Imidazolidinedione, 5,5-dimethyl-	77714	16	1	1.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-one	930687	4.3	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2-Pyridinecarbonitrile	100709	14	1	1.0
2-Pyridinecarbonitrile	100709	28	1	1.0
2H-Indol-2-one, 1,3-dihydro-	59483	11	2	2.0
2H-Indol-2-one, 1,3-dihydro-	59483	8.5	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benz[a]acridine, 1,5-dimethyl-	55030472	51	1	1.0
Benzene, 1-bromo-2-chloro-	694804	7.9	1	1.0
Benzene, 1-bromo-4-chloro-	106398	48	1	1.0
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10

Matrix : SURF-H2O

Client Description	SC-EE02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	1.2	J	50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Cyclohexanol, 2-bromo-, cis-	16536575	32	2	2.0
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Dibromoacetamide	598709	4.0	1	1.0
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanone, 1-(4-methoxyphenyl)-	854046	90	1	1.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Heneicosane	629947	4.3	2	2.0
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
Unknown	57200	35		
Unknown	57200	6.0		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0030	J	0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	ND		0.010

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0037	J	0.010

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	ND		0.00030
Copper	7440508	0.11		0.0020
Lead	7439921	0.0020		0.0010
Silver	7440224	ND		0.00010

Matrix : SURF-H2O

Client Description	**SC-EE02-SW-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.65		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	91.5	B	0.20
Chromium	7440473	0.012		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.13		0.020
Iron	7439896	0.11		0.10
Magnesium	7439954	44.1		0.20
Manganese	7439965	0.0085	J	0.010
Molybdenum	7439987	0.85		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	4.3	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	29.9		5.0
Vanadium	7440622	0.031		0.010
Zinc	7440666	0.042		0.020

Matrix : SURF-H2O

Client Description	SC-EE03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-(hydroxymethyl)-5,5-dime	116256	46	2	2.0
2,4-Imidazolidinedione, 5,5-dimethyl-	77714	38	2	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	4.5	1	1.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2H-Indol-2-one, 1,3-dihydro-	59483	4.6	1	1.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	2.0	J	10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Cyclohexanol, 2-bromo-, cis-	16536575	9.2	1	1.0
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--

Matrix : SURF-H2O

Client Description	SC-EE03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Heptadecane, 2,6,10,15-tetramethyl-	54833486	7.7	2	2.0
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 9	9382700	ND		10
TID Compound 10	9382201	ND		10
TID Compound 11	9382401	ND		10
TID Compound 12	9382501	ND		10
TID Compound 13	9382601	ND		10
TID Compound 14	9382701	ND		10
TID Compound 15	9382800	ND		10
TID Compound 16	9382901	ND		10
TID Compound 17	9382001	ND		10
TID Compound 18	9382101	ND		10
TID Compound 19	9382202	ND		10
TID Compound 20	9382402	ND		10
TID Compound 21	9382502	ND		10
TID Compound 22	9382602	ND		10
TID Compound 23	9382702	ND		10
TID Compound 24	9382801	ND		10
TID Compound 25	9382902	ND		10
Unknown	57200	6.9		
Unknown	57200	7.9		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	10		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	1.4	J	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	ND		0.010

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.010

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	ND		0.00030
Copper	7440508	0.058		0.0020
Lead	7439921	0.0035		0.0010
Silver	7440224	ND		0.00010

Matrix : SURF-H2O

Client Description	**SC-EE03-SW-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.50		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	56.3	B	0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.070		0.020
Iron	7439896	0.085	J	0.10
Magnesium	7439954	26.7		0.20
Manganese	7439965	0.0074	J	0.010
Molybdenum	7439987	0.25		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	2.3	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	19.3		5.0
Vanadium	7440622	0.018		0.010
Zinc	7440666	0.026		0.020

Matrix : SURF-H2O

Client Description	SC-EE04-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Methyl-5-methoxy-V-triazole	5539571	22	1	1.0
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 5,5-dimethyl-	77714	16	2	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	3.9	1	1.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10

Matrix : SURF-H2O

Client Description	**SC-EE04-SW-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
Unknown	57200	3.9		
Unknown	57200	5.4		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE04-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	1.4	J	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE04-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	ND		0.010

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.010

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00036		0.00030
Copper	7440508	0.025		0.0020
Lead	7439921	0.0022		0.0010
Silver	7440224	ND		0.00010

Matrix : SURF-H2O

Client Description	SC-EE04-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.47		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	51.4	B	0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.032		0.020
Iron	7439896	ND		0.10
Magnesium	7439954	24.4		0.20
Manganese	7439965	0.0056	J	0.010
Molybdenum	7439987	0.17		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	1.9	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	18.0		5.0
Vanadium	7440622	0.016		0.010
Zinc	7440666	0.023		0.020

Matrix : SURF-H2O

Client Description	SC-EE05-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	5.8	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	1.2	J	10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	1.5	J	10
Benzo(a)pyrene	50328	1.3	J	10
Benzo(b)fluoranthene	205992	1.3	J	10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	1.7	J	10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	1.9	J	10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10

Matrix : SURF-H2O

Client Description	SC-EE05-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	5.0	J	10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	2.2	J	10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	4.2	J	10
TID Compound 2	9382000	ND		10
TID Compound 3	9382100	ND		10
TID Compound 4	9382200	ND		10
TID Compound 5	9382300	ND		10
TID Compound 6	9382400	ND		10
TID Compound 7	9382500	ND		10
TID Compound 8	9382600	ND		10
TID Compound 9	9382700	ND		10
TID Compound 10	9382201	ND		10
TID Compound 11	9382401	ND		10
TID Compound 12	9382501	ND		10
TID Compound 13	9382601	ND		10
TID Compound 14	9382701	ND		10
TID Compound 15	9382800	ND		10
TID Compound 16	9382901	ND		10
TID Compound 17	9382001	ND		10
TID Compound 18	9382101	ND		10
TID Compound 19	9382202	ND		10
TID Compound 20	9382402	ND		10
TID Compound 21	9382502	ND		10
TID Compound 22	9382602	ND		10
TID Compound 23	9382702	ND		10
TID Compound 24	9382801	ND		10
TID Compound 25	9382902	ND		10
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE05-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE05-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	0.040	J	0.10
Dieldrin	60571	0.072	J	0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0047	J	0.0050

Analytical Test Method : 7060/7740 **Units :** NONE **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
		ND		0.030

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.010

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0068		0.00030
Copper	7440508	0.012		0.0020
Lead	7439921	0.0068		0.0010

Matrix : SURF-H2O

Client Description	SC-EE05-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	0.00025		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/27/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.57		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.45		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	0.0098		0.0050
Calcium	7440702	42.4	B	0.20
Chromium	7440473	0.022		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.020		0.020
Iron	7439896	0.57		0.10
Magnesium	7439954	20.0		0.20
Manganese	7439965	0.029		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	1.6	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	12.5		5.0
Vanadium	7440622	0.013		0.010
Zinc	7440666	0.039		0.020

Matrix : SURF-H2O

Client Description	SC-EE06-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 5,5-dimethyl-	77714	7.5	2	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	6.8	2	2.0
2-Cyclohexen-1-one	930687	7.0	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10

Matrix : SURF-H2O

Client Description	SC-EE06-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Saturated Hydrocarbon: >C20	7319043800	5.7		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	7.1	J	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20

Matrix : SURF-H2O

Client Description	SC-EE06-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	5.4	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Matrix : SURF-H2O

Client Description	SC-EE06-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.030		0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00066		0.00030
Copper	7440508	0.023		0.0020
Lead	7439921	0.0019		0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.084	J	0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.30		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	33.5		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.024		0.020
Iron	7439896	0.10		0.10
Magnesium	7439954	14.5		0.20
Manganese	7439965	0.011		0.010
Molybdenum	7439987	0.036		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	2.0	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	11.2		5.0
Vanadium	7440622	0.012		0.010
Zinc	7440666	0.025		0.020

Matrix : SURF-H2O

Client Description	SC-EE07-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	8.2	2	2.0
2-Cyclohexen-1-one	930687	4.0	2	2.0
2-Hexene, 4,4,5-trimethyl-	55702619	5.4	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10

Matrix : SURF-H2O

Client Description	SC-EE07-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	7.7	J	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--

Matrix : SURF-H2O

Client Description	SC-EE07-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	6.6	B	5.0
Siloxane	73400	5.7		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Matrix : SURF-H2O

Client Description	SC-EE07-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0015	J	0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0010	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00070		0.00030
Copper	7440508	0.022		0.0020
Lead	7439921	0.0032		0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.13		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.23		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	26.6		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.022		0.020
Iron	7439896	0.15		0.10
Magnesium	7439954	10.6		0.20
Manganese	7439965	0.013		0.010
Molybdenum	7439987	0.0088	J	0.020
Nickel	7440020	ND		0.040
Potassium	7440097	2.2	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	9.5		5.0
Vanadium	7440622	0.0087	J	0.010
Zinc	7440666	0.029		0.020

Matrix : SURF-H2O

Client Description	SC-EE08-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
15-Crown-5	33100275	5.7	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	4.3	2	2.0
2-Cyclohexen-1-one	930687	4.3	2	2.0
2-Hydroxy-4-(4-methoxyphenyl)quinoline	37118722	12	1	1.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2-Propanol, 1,1'-oxybis-	110985	15	1	1.0
2-Propanol, 1-(2-methoxy-1-methylethoxy)-	20324327	4.0	1	1.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Acetylene, P-acetamidophenyl(phenyl)-	26385331	3.9	1	1.0
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzene, 1-isocyanato-2-methyl-	614686	6.6	1	1.0
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10

Matrix : SURF-H2O

Client Description	SC-EE08-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy	2315619	11	2	2.0
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy	2315619	15	1	1.0
Ethanol, 2-[4-(1,1-dimethylethyl)phenoxy]-	713462	5.7	1	1.0
Ethanol, 2-butoxy-, phosphate (3:1)	78513	10	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Oxygenated Hydrocarbon	5886108200	11		
Oxygenated Hydrocarbon	5886108200	20		
Oxygenated Hydrocarbon	5886108200	21		
Oxygenated Hydrocarbon	5886108200	24		
Oxygenated Hydrocarbon	5886108200	4.0		
Oxygenated Hydrocarbon	5886108200	5.0		
Oxygenated Hydrocarbon	5886108200	5.8		
Oxygenated Hydrocarbon	5886108200	8.4		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Phosphine oxide, triphenyl-	791286	140	2	2.0
Phosphine sulfide, triphenyl-	3878453	18	2	2.0
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--

Matrix : SURF-H2O

Client Description	SC-EE08-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units : ug/L** **Data Collected : 10/26/94**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	4.7	J	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	7.2	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	2.7	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units : ug/L** **Data Collected : 10/26/94**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10

Matrix : SURF-H2O

Client Description	SC-EE08-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	0.059		0.050
Heptachlor epoxide	1024573	0.14		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.025

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	ND		0.010

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00071		0.00030
Copper	7440508	0.0099		0.0020
Lead	7439921	0.0023		0.0010
Silver	7440224	0.00019		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.060	J	0.10
Antimony	7440360	ND		0.060

Matrix : SURF-H2O

Client Description	SC-EE08-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Barium	7440393	0.27		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	51.4		0.20
Chromium	7440473	0.042		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.0094	J	0.020
Iron	7439896	0.17		0.10
Magnesium	7439954	22.5		0.20
Manganese	7439965	0.15		0.010
Molybdenum	7439987	0.013	J	0.020
Nickel	7440020	0.010	J	0.040
Potassium	7440097	5.2		5.0
Silver	7440224	ND		0.010
Sodium	7440235	156		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.025		0.020

Matrix : SURF-H2O

Client Description	SC-EE09-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Indolinecarboxaldehyde, 2-hydroxy-5-methoxy-	13303703	3.9	1	1.0
1-Naphthylamine	134327	ND		10
1H-Indol-5-ol	1953544	6.6	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	7.6	2	2.0
2-Cyclohexen-1-one	930687	4.8	2	2.0
2-Methoxyethyl ether	111966	4.2	1	1.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3,6,9,12,15-Pentaoxanonadecan-1-ol	1786943	5.0	1	1.0
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Aromatic Hydrocarbon	171492500	4.8		
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Cyclic Hydrocarbon	76904300	4.5		
Di-n-butyl phthalate	84742	ND		10

Matrix : SURF-H2O

Client Description	SC-EE09-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy	2315619	11	2	2.0
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy	2315619	15	2	2.0
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy	2315619	44	1	1.0
Ethanol, 2-[4-(1,1-dimethylethyl)phenoxy]-	713462	5.8	1	1.0
Ethanol, 2-butoxy-, phosphate (3:1)	78513	9.8	1	1.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Oxygenated Hydrocarbon	5886108200	11		
Oxygenated Hydrocarbon	5886108200	19		
Oxygenated Hydrocarbon	5886108200	21		
Oxygenated Hydrocarbon	5886108200	24		
Oxygenated Hydrocarbon	5886108200	5.0		
Oxygenated Hydrocarbon	5886108200	5.5		
Oxygenated Hydrocarbon	5886108200	8.0		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Phosphine oxide, triphenyl-	791286	130	2	2.0
Phosphine sulfide, triphenyl-	3878453	17	2	2.0
Polycyclic Hydrocarbon	865108201	20		
Polycyclic Hydrocarbon	865108201	5.4		
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10
p-tert-Amyl phenoxy ethanol	6382076	4.3	2	2.0

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE09-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	12		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	4.0	JB	5.0
Saturated Hydrocarbon: C10-C20	731904300	10		
Saturated Hydrocarbon: C10-C20	731904300	11		
Saturated Hydrocarbon: C10-C20	731904300	13		
Saturated Hydrocarbon: C10-C20	731904300	21		
Saturated Hydrocarbon: C10-C20	731904300	22		
Saturated Hydrocarbon: C10-C20	731904300	33		
Saturated Hydrocarbon: C10-C20	731904300	5.6		
Siloxane	73400	8.9		
Styrene	100425	ND		5.0
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	2.3	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE09-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	0.061		0.050
Heptachlor epoxide	1024573	0.098		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.020

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	ND		0.010

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00076		0.00030
Copper	7440508	0.012		0.0020
Lead	7439921	0.0076		0.0010
Silver	7440224	0.00014		0.00010

Matrix : SURF-H2O

Client Description	SC-EE09-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/26/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.056	J	0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.27		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	50.6		0.20
Chromium	7440473	0.033		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.0095	J	0.020
Iron	7439896	0.17		0.10
Magnesium	7439954	21.9		0.20
Manganese	7439965	0.14		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	0.014	J	0.040
Potassium	7440097	4.9	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	148		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.024		0.020

Matrix : SURF-H2O

Client Description	SC-EE10-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	4.2	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Pentene, 4,4-dimethyl-,(E)-	690084	6.2	2	2.0
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
9,10-Anthracenedione	84651	5.1	2	2.0
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzene, 1-isocyanato-2-methyl-	614686	6.2	2	2.0
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Caffeine	58082	8.1	1	1.0
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--

Matrix : SURF-H2O

Client Description	SC-EE10-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-[2-[4-(1,1,3,3-tetramethylbutyl)phenoxy	2315619	10	2	2.0
Ethanol, 2-butoxy-, phosphate (3:1)	78513	8.8	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Oxygenated Hydrocarbon	5886108200	13		
Oxygenated Hydrocarbon	5886108200	16		
Oxygenated Hydrocarbon	5886108200	35		
Oxygenated Hydrocarbon	5886108200	8.1		
Oxygenated Hydrocarbon	5886108200	9.1		
Oxygenated Hydrocarbon	5886108200	9.8		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Phosphine oxide, triphenyl-	791286	96	2	2.0
Phosphine sulfide, triphenyl-	3878453	12	2	2.0
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
Unknown	57200	6.2		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10

Matrix : SURF-H2O

Client Description	SC-EE10-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	2.1	J	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	1.1	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE10-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	0.050		0.050
Heptachlor epoxide	1024573	0.060		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.025

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.044		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0023	J	0.010

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.23		0.050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00073		0.00030
Copper	7440508	0.012		0.0020
Lead	7439921	0.0021		0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.080	J	0.10

Matrix : SURF-H2O

Client Description	SC-EE10-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Antimony	7440360	ND		0.060
Barium	7440393	0.27		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	47.8		0.20
Chromium	7440473	0.016		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.014	J	0.020
Iron	7439896	0.14		0.10
Magnesium	7439954	20.5		0.20
Manganese	7439965	0.10		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	4.6	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	123		5.0
Vanadium	7440622	0.0070	J	0.010
Zinc	7440666	0.026		0.020

Matrix : SURF-H2O

Client Description	SC-EW01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	4.1	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Cyclohexane, bromo-	108850	5.0	2	2.0
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10

Matrix : SURF-H2O

Client Description	SC-EW01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	1.9	J	10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EW01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	26		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	5.3		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EW01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0022	J	0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00036		0.00030
Copper	7440508	0.0065		0.0020
Lead	7439921	0.0014		0.0010
Silver	7440224	0.00012		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10

Matrix : SURF-H2O

Client Description	SC-EW01-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Antimony	7440360	ND		0.060
Barium	7440393	0.22		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	0.0035	J	0.0050
Calcium	7440702	42.2		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.011	J	0.020
Iron	7439896	0.24		0.10
Magnesium	7439954	12.4		0.20
Manganese	7439965	0.037		0.010
Molybdenum	7439987	0.018	J	0.020
Nickel	7440020	0.039	J	0.040
Potassium	7440097	3.1	J	5.0
Silver	7440224	0.0056	J	0.010
Sodium	7440235	17.7		5.0
Vanadium	7440622	0.0067	J	0.010
Zinc	7440666	0.025		0.020

Matrix : SURF-H2O

Client Description	SC-EW02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2-Pyrrolidinone, 1-methyl-	872504	15	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Cyclopentane, ethyl-	1640897	3.9	2	2.0
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10

Matrix : SURF-H2O

Client Description	SC-EW02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Hexanoic acid, 3,5,5-trimethyl-	3302101	16	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EW02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units : ug/L** **Data Collected : 10/25/94**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		–
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	1.6	J	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units : ug/L** **Data Collected : 10/25/94**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EW02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.010

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0013	J	0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0016	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0024		0.00030
Copper	7440508	0.012		0.0020
Lead	7439921	0.025		0.0010
Silver	7440224	0.00013		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.22		0.10

Matrix : SURF-H2O

Client Description	SC-EW02-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Antimony	7440360	ND		0.060
Barium	7440393	0.17		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	37.0		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.012	J	0.020
Iron	7439896	0.31		0.10
Magnesium	7439954	8.7		0.20
Manganese	7439965	0.076		0.010
Molybdenum	7439987	0.020		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	3.7	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	14.4		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.016	J	0.020

Matrix : SURF-H2O

Client Description	SC-EW03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Cyclohexen-1-ol	822673	6.6	2	2.0
2-Cyclohexen-1-one	930687	4.0	2	2.0
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10

Matrix : SURF-H2O

Client Description	SC-EW03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	58		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EW03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-^2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0
Aroclor 1254	11097691	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EW03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7421 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Lead	7439921	0.0019	J	0.0050

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0018	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0010		0.00030
Copper	7440508	0.013		0.0020
Lead	7439921	0.0020		0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.14		0.10

Matrix : SURF-H2O

Client Description	SC-EW03-SW-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 10/25/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Antimony	7440360	ND		0.060
Barium	7440393	0.18		0.010
Beryllium	7440417	ND		0.0020
Cadmium	7440439	ND		0.0050
Calcium	7440702	39.0		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010
Copper	7440508	0.012	J	0.020
Iron	7439896	0.30		0.10
Magnesium	7439954	8.8		0.20
Manganese	7439965	0.10		0.010
Molybdenum	7439987	0.017	J	0.020
Nickel	7440020	ND		0.040
Potassium	7440097	3.9	J	5.0
Silver	7440224	ND		0.010
Sodium	7440235	13.2		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.020		0.020

Section C

First Ecological Assessment
Crawfish Data

Matrix : TISSUE

Client Description	CC-EC01-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1-Butene, 2,3,3-trimethyl-	594569	2200	1	1.0
1-Butene, 2,3,3-trimethyl-	594569	3300	1	1.0
2-Methylnaphthalene	91576	ND		3400
3-Cyclohexene-1-methanol, .alpha.,4-dimethyl-.alph	23178883	1700	1z	1.0
5-Dodecyne	19780122	2000	1	1.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		3400
Acenaphthene	83329	ND		3400
Acenaphthylene	208968	ND		3400
Anthracene	120127	ND		3400
Benzo(a)anthracene	56553	ND		3400
Benzo(a)pyrene	50328	ND		3400
Benzo(b)fluoranthene	205992	ND		3400
Benzo(g,h,i)perylene	191242	ND		3400
Benzo(k)fluoranthene	207089	ND		3400
Cholesterol	57885	95000	1	1.0
Chrysene	218019	ND		3400
Cyclododecane	294622	3000	1	1.0
Dibenz(a,h)anthracene	53703	ND		3400
Fluoranthene	206440	ND		3400
Fluorene	86737	ND		3400
Hexadecanoic acid	57103	4000	1	1.0
Indeno(1,2,3-cd)pyrene	193395	ND		3400
Naphthalene	91203	ND		3400
Phenanthrene	85018	ND		3400
Pyrene	129000	ND		3400
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33
Aroclor 1254	11097691	ND		33
Aroclor 1260	11096825	22	J	33
Aroclor 1260	11096825	26	J	33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	ND		3.3
Heptachlor	76448	ND		1.7

Matrix : TISSUE

Client Description	CC-EC01-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	130		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	175		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	46900	B	20.0
Chromium	7440473	2.4		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	35.5		2.0
Iron	7439896	127		10.0
Lead	7439921	0.56	B	0.30
Lead	7439921	ND		5.0
Magnesium	7439954	932	B	20.0
Manganese	7439965	48.0		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	0.81	J	4.0
Potassium	7440097	2110		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2690		500
Thallium	7440280	ND		1.0
Vanadium	7440622	ND		1.0
Zinc	7440666	33.2		2.0

Matrix : TISSUE

Client Description	SC-EE04-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/30/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	91.3		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	2.2		1.0
Barium	7440393	170		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	30300	B	20.0
Chromium	7440473	3.6		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	185		2.0
Iron	7439896	125		10.0
Lead	7439921	1.3	B	0.30
Lead	7439921	ND		5.0
Magnesium	7439954	775	B	20.0
Manganese	7439965	23.4		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.5	J	4.0
Potassium	7440097	3420		500
Selenium	7782492	0.63		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2450		500
Thallium	7440280	ND		1.0
Vanadium	7440622	ND		1.0
Zinc	7440666	37.9		2.0

Matrix : TISSUE

Client Description	SC-EE07-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Methylnaphthalene	91576	ND		3300
7,12-Dimethylbenz(a)-^anthracene	57976	ND		3300
Acenaphthene	83329	ND		3300
Acenaphthylene	208968	ND		3300
Anthracene	120127	ND		3300
Benzo(a)anthracene	56553	ND		3300
Benzo(a)pyrene	50328	ND		3300
Benzo(b)fluoranthene	205992	ND		3300
Benzo(g,h,i)perylene	191242	ND		3300
Benzo(k)fluoranthene	207089	ND		3300
Cholesterol	57885	100000	1	1.0
Chrysene	218019	ND		3300
Dibenz(a,h)anthracene	53703	ND		3300
Fluoranthene	206440	ND		3300
Fluorene	86737	ND		3300
Indeno(1,2,3-cd)pyrene	193395	ND		3300
Naphthalene	91203	ND		3300
Phenanthrene	85018	ND		3300
Pyrene	129000	ND		3300
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33
Aroclor 1254	11097691	140		33
Aroclor 1254	11097691	55		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	ND		3.3
Heptachlor	76448	ND		1.7

Matrix : TISSUE

Client Description	SC-EE07-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	52.8		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	77.6		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	19000	B	20.0
Chromium	7440473	2.8		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	86.2		2.0
Iron	7439896	103		10.0
Lead	7439921	0.68	B	0.30
Lead	7439921	ND		5.0
Magnesium	7439954	436	B	20.0
Manganese	7439965	14.0		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.6	J	4.0
Potassium	7440097	2170		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2060		500
Thallium	7440280	ND		1.0
Vanadium	7440622	ND		1.0
Zinc	7440666	22.7		2.0

Matrix : TISSUE

Client Description	SC-EE08-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1-Butene, 2,3,3-trimethyl-	594569	1400	1	1.0
2-Methylnaphthalene	91576	ND		3300
3-Decen-1-ol, (E)-	10339603	1600	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		3300
Acenaphthene	83329	ND		3300
Acenaphthylene	208968	ND		3300
Anthracene	120127	ND		3300
Benzo(a)anthracene	56553	ND		3300
Benzo(a)pyrene	50328	ND		3300
Benzo(b)fluoranthene	205992	ND		3300
Benzo(g,h,i)perylene	191242	ND		3300
Benzo(k)fluoranthene	207089	ND		3300
Cholest-7-en-3-ol, (3.beta.,5.alpha.)-	80999	32000	1	1.0
Cholest-8(14)-en-3-ol, (3.beta.,5.alpha.)-	566994	62000	1	1.0
Cholesterol	57885	33000	1	1.0
Cholesterol	57885	44000	1	1.0
Chrysene	218019	ND		3300
Dibenz(a,h)anthracene	53703	ND		3300
Fluoranthene	206440	ND		3300
Fluorene	86737	ND		3300
Indeno(1,2,3-cd)pyrene	193395	ND		3300
Naphthalene	91203	ND		3300
Phenanthrene	85018	ND		3300
Pyrene	129000	ND		3300
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		6.6
4,4'-DDE	72559	ND		6.6
4,4'-DDT	50293	ND		6.6
Aldrin	309002	ND		3.4
Aroclor 1016	12674112	ND		66
Aroclor 1221	11104282	ND		66
Aroclor 1232	11141165	ND		66
Aroclor 1242	53469219	ND		66
Aroclor 1248	12672296	ND		66
Aroclor 1254	11097691	230		66
Aroclor 1254	11097691	520		66
Aroclor 1260	11096825	ND		66
Dieldrin	60571	ND		6.6
Endosulfan I	959988	ND		3.4
Endosulfan II	33213659	ND		6.6
Endosulfan sulfate	1031078	ND		6.6
Endrin	72208	ND		6.6
Endrin aldehyde	7421934	ND		6.6
Heptachlor	76448	ND		3.4

Matrix : TISSUE

Client Description	SC-EE08-BT-001
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Heptachlor epoxide	1024573	ND		3.4
Methoxychlor	72435	ND		34
Toxaphene	8001352	ND		340
alpha-BHC	319846	ND		3.4
alpha-Chlordane	5103719	ND		3.4
beta-BHC	319857	ND		3.4
delta-BHC	319868	ND		3.4
gamma-BHC (Lindane)	58899	ND		3.4
gamma-Chlordane	5103742	ND		3.4

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 10/29/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	65.2		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	112		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	0.72		0.50
Calcium	7440702	52200	B	20.0
Chromium	7440473	4.3		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	61.5		2.0
Iron	7439896	87.8		10.0
Lead	7439921	0.80	B	0.30
Lead	7439921	ND		5.0
Magnesium	7439954	599	B	20.0
Manganese	7439965	20.9		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.7	J	4.0
Potassium	7440097	2380		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2320		500
Thallium	7440280	ND		1.0
Vanadium	7440622	ND		1.0
Zinc	7440666	27.6		2.0

Matrix : TISSUE

Client Description	**SC-EE09-BT-001**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.00)**

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 11/03/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 11/03/94

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	25.7		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	40.0		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	13400	B	20.0
Chromium	7440473	4.7		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	14.6		2.0
Iron	7439896	38.1		10.0
Lead	7439921	0.34	B	0.30
Lead	7439921	ND		5.0
Magnesium	7439954	282	B	20.0
Manganese	7439965	5.6		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	1290		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	825		500
Thallium	7440280	ND		1.0
Vanadium	7440622	ND		1.0
Zinc	7440666	9.5		2.0

APPENDIX D

SECOND ECOLOGICAL ASSESSMENT ANALYTICAL DATA

Section A
Second Ecological Assessment
Sediment Data

Section B
Second Ecological Assessment
Surface Water Data

Section C
Second Ecological Assessment
Crawfish Data

Section A

Second Ecological Assessment
Sediment Data

Matrix : SEDIMENT

Client Description	CR-EC01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.63

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		420
1,2,4-Trichlorobenzene	120821	ND		420
1,2-Dichlorobenzene	95501	ND		420
1,3-Dichlorobenzene	541731	ND		420
1,4-Dichlorobenzene	106467	ND		420
1-Chloronaphthalene	90131	ND		3200
1-Naphthylamine	134327	ND		420
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		420
2,4-Dichlorophenol	120832	ND		420
2,4-Dimethylphenol	105679	ND		420
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		420
2,6-Dichlorophenol	87650	ND		420
2,6-Dinitrotoluene	606202	ND		420
2-Chloronaphthalene	91587	ND		420
2-Chlorophenol	95578	ND		420
2-Methylnaphthalene	91576	ND		420
2-Methylphenol	95487	ND		420
2-Naphthylamine	91598	ND		420
2-Nitrophenol	88755	ND		420
2-Picoline	109068	ND		420
3,3'-Dichlorobenzidine	91941	ND		830
3,7,11,15-Tetramethyl-2-hexadecen-1-ol	102608537	510	2	2.5
3-Methylcholanthrene	56495	ND		420
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		420
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		420
4-Bromophenyl^phenyl ether	101553	ND		420
4-Chloro-3-methylphenol	59507	ND		420
4-Chloroaniline	106478	ND		420
4-Chlorophenyl ^phenyl ether	7005723	ND		420
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		420
9,19-Cyclolanost-24-en-3-ol, (3.beta.)-	469385	1000	1	1.3
9-Hexadecenoic acid, eicosyl ester, (Z)-	22522345	380	1	1.3
Acenaphthene	83329	ND		420
Acenaphthylene	208968	ND		420
Acetophenone	98862	ND		420
Aniline	62533	ND		420
Anthracene	120127	ND		420
Azobenzene	103333	ND		3200
Benzidine	92875	ND		3200
Benzo(a)anthracene	56553	ND		420
Benzo(a)pyrene	50328	ND		420
Benzo(b)fluoranthene	205992	96	J	420
Benzo(g,h,i)perylene	191242	ND		420
Benzo(k)fluoranthene	207089	ND		420
Benzoic acid	65850	45	J	3200
Benzyl alcohol	100516	ND		420
Butyl benzyl phthalate	85687	ND		420
Cholestanol	80977	470	2	2.5
Cholesterol	57885	1200	2	2.5
Chrysene	218019	64	J	420
Cyclic Hydrocarbon	76904300	240		
Cyclic Hydrocarbon	76904300	450		
Cyclohexadecane	295658	380	2	2.5
Di-n-butyl phthalate	84742	ND		420

Matrix : SEDIMENT

Client Description	CR-EC01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		420
Dibenz(a,h)anthracene	53703	ND		420
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		420
Diethyl phthalate	84662	ND		420
Dimethyl phthalate	131113	ND		420
Diphenylamine	122394	ND		420
Ergost-5-en-3-ol, (3.beta.)-	4651518	640	2	2.5
Ergosta-5,22-dien-3-ol,^(3.beta.,22E,24S)-	17472785	430	2	2.5
Ethyl methanesulfonate	62500	ND		420
Fluoranthene	206440	100	J	420
Fluorene	86737	ND		420
Hexachlorobenzene	118741	ND		420
Hexachlorobutadiene	87683	ND		420
Hexachlorocyclopentadiene	77474	ND		420
Hexachloroethane	67721	ND		420
Indeno(1,2,3-cd)pyrene	193395	ND		420
Isophorone	78591	ND		420
Methyl methanesulfonate	66273	ND		420
N-Nitroso-di-^n-propylamine	621647	ND		420
N-Nitroso-di-n-butylamine	924163	ND		420
N-Nitrosodiphenylamine	86306	ND		420
N-Nitrosopiperidine	100754	ND		420
Naphthalene	91203	ND		420
Naphthalene, 1,2,3,5,6,7,8,8a-^octahydro-1,8a-di!	4630073	1300	Iz	1.3
Nitrobenzene	98953	ND		420
Norolean-12-ene	6599600	2100	2	2.5
Oxygenated Hydrocarbon	5886108200	1800		
Oxygenated Hydrocarbon	5886108200	240		
Oxygenated Hydrocarbon	5886108200	400		
Oxygenated Hydrocarbon	5886108200	710		
Oxygenated Hydrocarbon	5886108200	730		
Pentachlorobenzene	608935	ND		420
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		420
Phenanthrene	85018	48	J	420
Phenol	108952	ND		420
Pronamide	23950585	ND		420
Pyrene	129000	82	J	420
Saturated Hydrocarbon: >C20	7319043800	1000		
Saturated Hydrocarbon: >C20	7319043800	1900		
Saturated Hydrocarbon: >C20	7319043800	300		
Saturated Hydrocarbon: >C20	7319043800	340		
Saturated Hydrocarbon: >C20	7319043800	4400		
Saturated Hydrocarbon: >C20	7319043800	480		
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	2600	2	2.5
Vitamin E	59029	1300	2	2.5
a,a-Dimethylphenethyl-^amine	122098	ND		420
bis(2-Chloroethoxy)^methane	111911	ND		420
bis(2-Chloroethyl) ether	111444	ND		420
bis(2-Chloroisopropyl)^ether	108601	ND		420
bis(2-Ethylhexyl)^phthalate	117817	260	J	420
p-Dimethylaminoazobenzene	60117	ND		420

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.3
1,1,1-Trichloroethane	71556	ND		6.3
1,1,2,2-Tetrachloroethane	79345	ND		6.3
1,1,2-Trichloroethane	79005	ND		6.3
1,1-Dichloroethane	75343	ND		6.3
1,1-Dichloroethene	75354	ND		6.3
1,2,3-Trichloropropane	96184	ND		6.3
1,2-Dichloroethane	107062	ND		6.3

Matrix : SEDIMENT

Client Description	CR-EC01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		6.3
2-Butanone (MEK)	078933	4.4	J	13
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
Acetone	67641	19		13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.3
Bromodichloromethane	75274	ND		6.3
Bromoform	75252	ND		6.3
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.3
Carbon tetrachloride	56235	ND		6.3
Chlorobenzene	108907	ND		6.3
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.3
Chloromethane	74873	ND		13
Dibromochloromethane	124481	ND		6.3
Dibromomethane	74953	ND		6.3
Dichlorodifluoromethane	75718	ND		25
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.3
Iodomethane	74884	ND		6.3
Methylene chloride	75092	1.5	J	6.3
None Detected	320100	ND		
Styrene	100425	ND		6.3
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.3
Toluene	108883	4.2	J	6.3
Trichloroethene	79016	ND		6.3
Trichlorofluoromethane	75694	ND		6.3
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.3
cis-1,3-Dichloropropene	10061015	ND		6.3
trans-1,2-Dichloroethene	156605	ND		6.3
trans-1,3-Dichloropropene	10061026	ND		6.3
trans-1,4-Dichloro-2-butene	110576	ND		6.3

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4.2
4,4'-DDE	72559	ND		4.2
4,4'-DDT	50293	ND		4.2
Aldrin	309002	ND		2.1
Aroclor 1016	12674112	ND		42
Aroclor 1221	11104282	ND		42
Aroclor 1232	11141165	ND		42
Aroclor 1242	53469219	ND		42
Aroclor 1248	12672296	ND		42

Matrix : SEDIMENT

Client Description	CR-EC01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	28	J	42
Aroclor 1254	11097691	37	J	42
Aroclor 1260	11096825	ND		42
Dieldrin	60571	ND		4.2
Endosulfan I	959988	ND		2.1
Endosulfan II	33213659	ND		4.2
Endosulfan sulfate	1031078	ND		4.2
Endrin	72208	ND		4.2
Endrin aldehyde	7421934	ND		4.2
Heptachlor	76448	ND		2.1
Heptachlor epoxide	1024573	ND		2.1
Methoxychlor	72435	ND		21
Toxaphene	8001352	ND		210
alpha-BHC	319846	ND		2.1
alpha-Chlordane	5103719	ND		2.1
beta-BHC	319857	ND		2.1
delta-BHC	319868	ND		2.1
gamma-BHC (Lindane)	58899	ND		2.1
gamma-Chlordane	5103742	ND		2.1

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.3

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.3

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	5.0		0.63

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	6010		12.6
Antimony	7440360	ND		7.6
Barium	7440393	1360		1.3
Beryllium	7440417	0.54		0.25
Cadmium	7440439	ND		0.63
Calcium	7440702	29200		25.3
Chromium	7440473	10.5		1.3
Cobalt	7440484	6.7		1.3
Copper	7440508	8.8		2.5
Iron	7439896	11300		12.6
Lead	7439921	12.3		6.3
Magnesium	7439954	10200		25.3
Manganese	7439965	1440		1.3
Molybdenum	7439987	ND		2.5
Nickel	7440020	10.4		5.1
Potassium	7440097	886		632

Matrix : SEDIMENT

Client Description	CR-EC01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	0.010	J	1.3
Sodium	7440235	279	J	632
Vanadium	7440622	27.2		1.3
Zinc	7440666	25.4		2.5

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	7390		2000

Matrix : SEDIMENT

Client Description	CR-EC02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.69

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(24S)-5.alpha.-ergostan-3-one	59461380	3300	2	2.8
.gamma.-Tocopherol	7616220	680	2	2.8
1,2,4,5-Tetrachloro-^benzene	95943	ND		450
1,2,4-Trichlorobenzene	120821	ND		450
1,2-Dichlorobenzene	95501	ND		450
1,3-Dichlorobenzene	541731	ND		450
1,4-Dichlorobenzene	106467	ND		450
1-Chloronaphthalene	90131	ND		3400
1-Naphthylamine	134327	ND		450
2,3,4,6-Tetrachlorophenol	58902	ND		2200
2,4,5-Trichlorophenol	95954	ND		2200
2,4,6-Trichlorophenol	88062	ND		450
2,4-Dichlorophenol	120832	ND		450
2,4-Dimethylphenol	105679	ND		450
2,4-Dinitrophenol	51285	ND		2200
2,4-Dinitrotoluene	121142	ND		450
2,6-Dichlorophenol	87650	ND		450
2,6-Dinitrotoluene	606202	ND		450
2-Chloronaphthalene	91587	ND		450
2-Chlorophenol	95578	ND		450
2-Methylnaphthalene	91576	ND		450
2-Methylphenol	95487	ND		450
2-Naphthylamine	91598	ND		450
2-Nitrophenol	88755	ND		450
2-Pentanone, 4-hydroxy-4-methyl-	123422	8600	2A	2.8
2-Picoline	109068	ND		450
3,3'-Dichlorobenzidine	91941	ND		910
3,4-Dihydro-9-hydroxy-6,8-bis^(methoxymethoxy)!	82752872	8400	1z	1.4
3-Methylcholanthrene	56495	ND		450
3-Nitroaniline	99092	ND		2200
3/4-Methylphenol	7820600	ND		450
4,6-Dinitro-^2-methylphenol	534521	ND		2200
4-Aminobiphenyl	92671	ND		450
4-Bromophenyl^phenyl ether	101553	ND		450
4-Chloro-3-methylphenol	59507	ND		450
4-Chloroaniline	106478	ND		450
4-Chlorophenyl ^phenyl ether	7005723	ND		450
4-Nitroaniline	100016	ND		2200
4-Nitrophenol	100027	ND		2200
5'(Trifluoromethyl)-(17R)-spiro^[androst-4-ene!	75522268	2800	1z	1.4
7,12-Dimethylbenz(a)-^anthracene	57976	ND		450
8-(1,1,2-Trimethyl-2-propenyl)-^8H-cyclohepta[b]!	73795047	820	1z	1.4
Acenaphthene	83329	ND		450
Acenaphthylene	208968	ND		450
Acetophenone	98862	ND		450
Aciphyllene	87745311	420	1	1.4
Aniline	62533	ND		450
Anthracene	120127	ND		450
Aristolone	6831170	8300	2	2.8
Azobenzene	103333	ND		3400
Azulene, 1,2,3,5,6,7,8,8A-octahydro-^1,4-dimethy!	3691110	11000	1z	1.4
Benzenamine, 3-methoxy-2,4,6-^trimethyl-	34874889	6100	1	1.4
Benzidine	92875	ND		3400
Benzo(a)anthracene	56553	ND		450
Benzo(a)pyrene	50328	ND		450
Benzo(b)fluoranthene	205992	ND		450
Benzo(g,h,i)perylene	191242	ND		450
Benzo(k)fluoranthene	207089	ND		450
Benzoic acid	65850	ND		3400
Benzyl alcohol	100516	ND		450
Buf-20,22-dienolide, 14,15-epoxy-^3,16-dihydroxy!	4026953	2900	1z	1.4

Matrix : SEDIMENT

Client Description	CR-EC02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Butyl benzyl phthalate	85687	ND		450
Cholestanol	80977	950	2	2.8
Chrysene	218019	ND		450
Di-n-butyl phthalate	84742	ND		450
Di-n-octyl phthalate	117840	ND		450
Dibenz(a,h)anthracene	53703	ND		450
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		450
Diethyl phthalate	84662	ND		450
Dimethyl 4,6-dioxo-5,6-dihydro-^4H-pyrido[3.2.1-j!	86340490	1900	1z	1.4
Dimethyl 4,6-dioxo-5,6-dihydro-^4H-pyrido[3.2.1-j!	86340490	2400	1z	1.4
Dimethyl ester of 5-[1-^dimethylhydrazono!	90909663	1000	1z	1.4
Dimethyl phthalate	131113	ND		450
Diphenylamine	122394	ND		450
Ergost-5-en-3-ol, (3.beta.)-	4651518	15000	1	1.4
Ergostanol	6538029	4100	1	1.4
Ethyl methanesulfonate	62500	ND		450
Fluoranthene	206440	ND		450
Fluorene	86737	ND		450
Hexachlorobenzene	118741	ND		450
Hexachlorobutadiene	87683	ND		450
Hexachlorocyclopentadiene	77474	ND		450
Hexachloroethane	67721	ND		450
Indeno(1,2,3-cd)pyrene	193395	ND		450
Isophorone	78591	ND		450
Methyl methanesulfonate	66273	ND		450
N-Nitroso-di-^n-propylamine	621647	ND		450
N-Nitroso-di-n-butylamine	924163	ND		450
N-Nitrosodiphenylamine	86306	ND		450
N-Nitrosopiperidine	100754	ND		450
Naphthalene	91203	ND		450
Naphthalene, 1,2,3,5,6,7,8,8a-^octahydro-1,8a-di!	4630073	940	2z	2.8
Naphthalene, 2-(phenylmethyl)-	613592	1600	1	1.4
Nitrobenzene	98953	ND		450
O,O-Diacetylcarpachromene	57498972	870	1	1.4
Pentachlorobenzene	608935	ND		450
Pentachloronitrobenzene	82688	ND		2200
Pentachlorophenol	87865	ND		2200
Phenacetin	62442	ND		450
Phenanthrene	85018	ND		450
Phenanthrene, 9-dodecyltetradecahydro-	55334015	740	1	1.4
Phenol	108952	ND		450
Pronamide	23950585	ND		450
Pyrene	129000	ND		450
Saturated Hydrocarbon: >C20	7319043800	1900		
Saturated Hydrocarbon: >C20	7319043800	250		
Saturated Hydrocarbon: >C20	7319043800	730	2	2.8
a,a-Dimethylphenethyl-^amine	122098	ND		450
bis(2-Chloroethoxy)^methane	111911	ND		450
bis(2-Chloroethyl) ether	111444	ND		450
bis(2-Chloroisopropyl)^ether	108601	ND		450
bis(2-Ethylhexyl)^phthalate	117817	710		450
cis-1-Ethinyl-2-methyl-1-^cyclohexanol	36144419	1200	1	1.4
p-Dimethylaminoazobenzene	60117	ND		450

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.9
1,1,1-Trichloroethane	71556	ND		6.9
1,1,2,2-Tetrachloroethane	79345	ND		6.9
1,1,2-Trichloroethane	79005	ND		6.9
1,1-Dichloroethane	75343	ND		6.9
1,1-Dichloroethene	75354	ND		6.9
1,2,3-Trichloropropane	96184	ND		6.9
1,2-Dichloroethane	107062	ND		6.9

Matrix : SEDIMENT

Client Description	**CR-EC02-SD-201**
Sample Depth in feet bgs (Top, Base)	**(0.00,0.50)**

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		6.9
2-Butanone (MEK)	078933	ND		14
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		14
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		14
Acetone	67641	ND		14
Acrolein	107028	ND		140
Acrylonitrile	107131	ND		140
Benzene	71432	ND		6.9
Bromodichloromethane	75274	ND		6.9
Bromoform	75252	ND		6.9
Bromomethane	74839	ND		14
Carbon disulfide	75150	ND		6.9
Carbon tetrachloride	56235	ND		6.9
Chlorobenzene	108907	ND		6.9
Chloroethane	75003	ND		14
Chloroform	67663	ND		6.9
Chloromethane	74873	ND		14
Dibromochloromethane	124481	ND		6.9
Dibromomethane	74953	ND		6.9
Dichlorodifluoromethane	75718	ND		28
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		28
Ethylbenzene	100414	ND		6.9
Iodomethane	74884	ND		6.9
Methylene chloride	75092	ND		6.9
None Detected	320100	ND		
Styrene	100425	ND		6.9
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.9
Toluene	108883	ND		6.9
Trichloroethene	79016	ND		6.9
Trichlorofluoromethane	75694	ND		6.9
Vinyl acetate	108054	ND		14
Vinyl chloride	75014	ND		14
Xylenes (total)	1330207	ND		6.9
cis-1,3-Dichloropropene	10061015	ND		6.9
trans-1,2-Dichloroethene	156605	ND		6.9
trans-1,3-Dichloropropene	10061026	ND		6.9
trans-1,4-Dichloro-2-butene	110576	ND		6.9

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4.5
4,4'-DDE	72559	ND		4.5
4,4'-DDT	50293	ND		4.5
Aldrin	309002	ND		2.3
Aroclor 1016	12674112	ND		45
Aroclor 1221	11104282	ND		45
Aroclor 1232	11141165	ND		45
Aroclor 1242	53469219	ND		45
Aroclor 1248	12672296	ND		45

Matrix : SEDIMENT

Client Description	CR-EC02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		45
Aroclor 1260	11096825	ND		45
Dieldrin	60571	ND		4.5
Endosulfan I	959988	ND		2.3
Endosulfan II	33213659	ND		4.5
Endosulfan sulfate	1031078	ND		4.5
Endrin	72208	ND		4.5
Endrin aldehyde	7421934	ND		4.5
Heptachlor	76448	ND		2.3
Heptachlor epoxide	1024573	ND		2.3
Methoxychlor	72435	ND		23
Toxaphene	8001352	ND		230
alpha-BHC	319846	ND		2.3
alpha-Chlordane	5103719	1.5	J	2.3
alpha-Chlordane	5103719	2.5		2.3
beta-BHC	319857	ND		2.3
delta-BHC	319868	ND		2.3
gamma-BHC (Lindane)	58899	ND		2.3
gamma-Chlordane	5103742	2.1	J	2.3
gamma-Chlordane	5103742	3.1		2.3

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.4

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.4

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.14

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	5.3		0.69

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	4350		13.8
Antimony	7440360	ND		8.3
Barium	7440393	1460		1.4
Beryllium	7440417	0.38		0.28
Cadmium	7440439	ND		0.69
Calcium	7440702	63500		27.6
Chromium	7440473	8.7		1.4
Cobalt	7440484	2.8		1.4
Copper	7440508	7.1		2.8
Iron	7439896	6610		13.8
Lead	7439921	11.4		6.9
Magnesium	7439954	3650		27.6
Manganese	7439965	336		1.4
Molybdenum	7439987	ND		2.8
Nickel	7440020	7.8		5.5

Matrix : SEDIMENT

Client Description	CR-EC02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Potassium	7440097	616	J	689
Silver	7440224	ND		1.4
Sodium	7440235	273	J	689
Vanadium	7440622	13.1		1.4
Zinc	7440666	22.5		2.8

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	16200		2000

Matrix : SEDIMENT

Client Description	SC-EE01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		2000
1,2,4-Trichlorobenzene	120821	ND		2000
1,2-Benzenedicarboxylic acid,^ dipropyl ester	131168	9300	2	2.4
1,2-Dichlorobenzene	95501	ND		2000
1,3-Dichlorobenzene	541731	ND		2000
1,4-Dichlorobenzene	106467	ND		2000
1-(6-Methyl-2-pyridyl)propan-2-one	65702081	860	1	1.2
1-Chloronaphthalene	90131	ND		15000
1-Naphthalenecarboxamide, N,N-diethyl-	5454104	1300	1	1.2
1-Naphthylamine	134327	ND		2000
11H-Benzo[b]fluorene	243174	1600	2	2.4
2(3H)-Furanone, dihydro-5-propyl-	105215	1300	2	2.4
2(3H)-Furanone, dihydro-5-propyl-	105215	1500	1	1.2
2,3,4,6-Tetrachlorophenol	58902	ND		9700
2,3,5-Trimethyl-6-ethylpyrazine	17398162	3200	1	1.2
2,4,5-Trichlorophenol	95954	ND		9700
2,4,6-Trichlorophenol	88062	ND		2000
2,4-Dichlorophenol	120832	ND		2000
2,4-Dimethylphenol	105679	ND		2000
2,4-Dinitrophenol	51285	ND		9700
2,4-Dinitrotoluene	121142	ND		2000
2,6-Dichlorophenol	87650	ND		2000
2,6-Dinitrotoluene	606202	ND		2000
2-Butene, 1,1-dimethoxy-	21962243	1300	1	1.2
2-Chloronaphthalene	91587	ND		2000
2-Chlorophenol	95578	ND		2000
2-Methylnaphthalene	91576	ND		2000
2-Methylphenol	95487	ND		2000
2-Naphthylamine	91598	ND		2000
2-Nitrophenol	88755	ND		2000
2-Pentanone, 4-hydroxy-4-methyl-	123422	14000	2A	2.4
2-Picoline	109068	ND		2000
3,3'-Dichlorobenzidine	91941	ND		4000
3-Methyl-p-anisaldehyde	32723674	2600	2	2.4
3-Methyl-p-anisaldehyde	32723674	970	2	2.4
3-Methylcholanthrene	56495	ND		2000
3-Nitroaniline	99092	ND		9700
3-Penten-2-one, 4-butoxy-	3431876	3000	1	1.2
3/4-Methylphenol	7820600	ND		2000
4,6-Dinitro-^2-methylphenol	534521	ND		9700
4-Aminobiphenyl	92671	ND		2000
4-Bromophenyl^phenyl ether	101553	ND		2000
4-Chloro-3-methylphenol	59507	ND		2000
4-Chloroaniline	106478	ND		2000
4-Chlorophenyl ^phenyl ether	7005723	ND		2000
4-Nitroaniline	100016	ND		9700
4-Nitrophenol	100027	ND		9700
4-Octanone, 2,3-epoxy-2-methyl-	17257839	3200	1	1.2
4-Octanone, 2,3-epoxy-2-methyl-	17257839	3400	1	1.2
7,12-Dimethylbenz(a)-^anthracene	57976	ND		2000
Acenaphthene	83329	ND		2000
Acenaphthylene	208968	ND		2000
Acetophenone	98862	ND		2000
Aniline	62533	ND		2000
Anthracene	120127	590	J	2000
Azobenzene	103333	ND		15000
Benzidine	92875	ND		15000
Benzo(a)anthracene	56553	3800		2000
Benzo(a)pyrene	50328	2800		2000
Benzo(b)fluoranthene	205992	6100		2000
Benzo(e)pyrene	192972	3900	2	2.4

Matrix : SEDIMENT

Client Description	SC-EE01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzo(g,h,i)perylene	191242	1000	J	2000
Benzo(k)fluoranthene	207089	ND		2000
Benzoic acid	65850	ND		15000
Benzyl alcohol	100516	ND		2000
Butyl benzyl phthalate	85687	290	J	2000
Carbazole	86748	930	3	3.6
Chrysene	218019	5400		2000
Di-n-butyl phthalate	84742	ND		2000
Di-n-octyl phthalate	117840	ND		2000
Dibenz(a,c)anthracene	215587	2200	2	2.4
Dibenz(a,h)anthracene	53703	ND		2000
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		2000
Diethyl phthalate	84662	ND		2000
Dimethyl phthalate	131113	ND		2000
Diphenylamine	122394	ND		2000
Ethyl methanesulfonate	62500	ND		2000
Fluoranthene	206440	9100		2000
Fluorene	86737	ND		2000
Hexachlorobenzene	118741	ND		2000
Hexachlorobutadiene	87683	ND		2000
Hexachlorocyclopentadiene	77474	ND		2000
Hexachloroethane	67721	ND		2000
Indeno(1,2,3-cd)pyrene	193395	1100	J	2000
Isophorone	78591	ND		2000
Methyl methanesulfonate	66273	ND		2000
N-Nitroso-di-^n-propylamine	621647	ND		2000
N-Nitroso-di-n-butylamine	924163	ND		2000
N-Nitrosodiphenylamine	86306	ND		2000
N-Nitrosopiperidine	100754	ND		2000
Naphthalene	91203	ND		2000
Nitrobenzene	98953	ND		2000
Pentachlorobenzene	608935	ND		2000
Pentachloronitrobenzene	82688	ND		9700
Pentachlorophenol	87865	ND		9700
Phenacetin	62442	ND		2000
Phenanthrene	85018	3900		2000
Phenol	108952	ND		2000
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	54932784	900	1	1.2
Pronamide	23950585	ND		2000
Pyrazine, 3,5-diethyl-2-methyl-	18138051	5400	2	2.4
Pyrene	129000	7400		2000
Saturated Hydrocarbon: C10-C20	731904300	1000		
Saturated Hydrocarbon: C10-C20	731904300	1100		
Saturated Hydrocarbon: C10-C20	731904300	2100		
Saturated Hydrocarbon: C10-C20	731904300	970		
Silacyclohexane, 1,1-dimethyl-	4040748	980	2	2.4
Thiazole, 4-ethyl-2-methyl-	32272483	4100	1	1.2
a,a-Dimethylphenethyl-^amine	122098	ND		2000
bis(2-Chloroethoxy)^methane	111911	ND		2000
bis(2-Chloroethyl) ether	111444	ND		2000
bis(2-Chloroisopropyl)^ether	108601	ND		2000
bis(2-Ethylhexyl)^phthalate	117817	1400	J	2000
p-Dimethylaminoazobenzene	60117	ND		2000

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.1
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1

Matrix : SEDIMENT

Client Description	SC-EE01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		6.1
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	ND		6.1
None Detected	320100	ND		
Styrene	100425	ND		6.1
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	1.3	J	6.1
Toluene	108883	ND		6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		400
4,4'-DDE	72559	ND		400
4,4'-DDT	50293	ND		400
Aldrin	309002	ND		210
Aroclor 1016	12674112	ND		4000
Aroclor 1221	11104282	ND		4000
Aroclor 1232	11141165	ND		4000
Aroclor 1242	53469219	ND		4000
Aroclor 1248	12672296	ND		4000

Matrix : SEDIMENT

Client Description	SC-EE01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	11000		4000
Aroclor 1260	11096825	ND		4000
Dieldrin	60571	ND		400
Endosulfan I	959988	ND		210
Endosulfan II	33213659	ND		400
Endosulfan sulfate	1031078	ND		400
Endrin	72208	ND		400
Endrin aldehyde	7421934	ND		400
Heptachlor	76448	ND		210
Heptachlor epoxide	1024573	ND		210
Methoxychlor	72435	ND		2100
Toxaphene	8001352	ND		21000
alpha-BHC	319846	ND		210
alpha-Chlordane	5103719	ND		210
beta-BHC	319857	ND		210
delta-BHC	319868	ND		210
gamma-BHC (Lindane)	58899	ND		210
gamma-Chlordane	5103742	ND		210

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.4		0.61

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	3870		24.2
Antimony	7440360	ND		14.5
Barium	7440393	243		2.4
Beryllium	7440417	0.34	J	0.48
Cadmium	7440439	2.1		1.2
Calcium	7440702	165000		48.4
Chromium	7440473	9.2		2.4
Cobalt	7440484	ND		2.4
Copper	7440508	5.6		4.8
Iron	7439896	6750		24.2
Lead	7439921	17.5		12.1
Magnesium	7439954	6830		48.4
Manganese	7439965	473		2.4
Molybdenum	7439987	ND		4.8
Nickel	7440020	6.9	J	9.7
Potassium	7440097	299	J	1210
Silver	7440224	ND		2.4

Matrix : SEDIMENT

Client Description	SC-EE01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		1210
Vanadium	7440622	17.5		2.4
Zinc	7440666	77.6		4.8

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	25600		2000

Matrix : SEDIMENT

Client Description	SC-EE02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.59

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1'-Biphenyl, 2,2',3',4,5-^pentachloro-	41464511	1100	2	2.4
1,1'-Biphenyl, 2,2',4,4',5-^pentachloro-	38380017	780	2	2.4
1,2,4,5-Tetrachloro-^benzene	95943	ND		1600
1,2,4-Trichlorobenzene	120821	ND		1600
1,2-Dichlorobenzene	95501	ND		1600
1,3-Dichlorobenzene	541731	ND		1600
1,4-Dichlorobenzene	106467	ND		1600
1-Chloronaphthalene	90131	ND		12000
1-Naphthylamine	134327	ND		1600
1-Tetradecanamine, N,N-dimethyl-	112754	1700	2	2.4
1-oxo-1,2-dihydro-2,3-^diazaphenoxathiin	85302029	990	1	1.2
2,3,4,6-Tetrachlorophenol	58902	ND		7600
2,4,5-Trichlorophenol	95954	ND		7600
2,4,6-Trichlorophenol	88062	ND		1600
2,4-Dichlorophenol	120832	ND		1600
2,4-Dimethylphenol	105679	ND		1600
2,4-Dinitrophenol	51285	ND		7600
2,4-Dinitrotoluene	121142	ND		1600
2,6-Dichlorophenol	87650	ND		1600
2,6-Dinitrotoluene	606202	ND		1600
2-Chloronaphthalene	91587	ND		1600
2-Chlorophenol	95578	ND		1600
2-Ethoxy-1-methyl-6-oxo-1,2-^azaphosphina 2-oxide	93989005	870	1	1.2
2-Methylnaphthalene	91576	ND		1600
2-Methylphenol	95487	ND		1600
2-Naphthylamine	91598	ND		1600
2-Nitrophenol	88755	ND		1600
2-Pentanone, 4-hydroxy-4-methyl-	123422	12000	2A	2.4
2-Picoline	109068	ND		1600
28-Nor-17.beta.(H)-hopane	36728720	2600	1	1.2
3,3'-Dichlorobenzidine	91941	ND		3100
3-Fluoranthenamine	2693461	1000	1	1.2
3-Methylcholanthrene	56495	ND		1600
3-Nitroaniline	99092	ND		7600
3/4-Methylphenol	7820600	ND		1600
4,6-Dinitro-^2-methylphenol	534521	ND		7600
4-Aminobiphenyl	92671	ND		1600
4-Bromophenyl^phenyl ether	101553	ND		1600
4-Chloro-3-methylphenol	59507	ND		1600
4-Chloroaniline	106478	ND		1600
4-Chlorophenyl ^phenyl ether	7005723	ND		1600
4-Nitroaniline	100016	ND		7600
4-Nitrophenol	100027	ND		7600
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1600
Acenaphthene	83329	400	J	1600
Acenaphthylene	208968	ND		1600
Acetophenone	98862	ND		1600
Aniline	62533	ND		1600
Anthracene	120127	710	J	1600
Azobenzene	103333	ND		12000
Benzidine	92875	320	J	12000
Benzo(a)anthracene	56553	3500		1600
Benzo(a)pyrene	50328	3400		1600
Benzo(b)fluoranthene	205992	5700		1600
Benzo(e)pyrene	192972	1700	2	2.4
Benzo(g,h,i)perylene	191242	2100		1600
Benzo(k)fluoranthene	207089	ND		1600
Benzo[c]phenanthrene	195197	730	2	2.4
Benzoic acid	65850	ND		12000
Benzyl alcohol	100516	ND		1600
Butyl benzyl phthalate	85687	ND		1600

Matrix : SEDIMENT

Client Description	SC-EE02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	3800		1600
Di-n-butyl phthalate	84742	ND		1600
Di-n-octyl phthalate	117840	ND		1600
Dibenz(a,c)anthracene	215587	820	2	2.4
Dibenz(a,h)anthracene	53703	550	J	1600
Dibenz(a,j)acridine	224420	ND		–
Dibenzofuran	132649	ND		1600
Diethyl phthalate	84662	ND		1600
Dimethyl phthalate	131113	ND		1600
Diphenylamine	122394	ND		1600
Ethyl methanesulfonate	62500	ND		1600
Fluoranthene	206440	6100		1600
Fluorene	86737	290	J	1600
Hexachlorobenzene	118741	ND		1600
Hexachlorobutadiene	87683	ND		1600
Hexachlorocyclopentadiene	77474	ND		1600
Hexachloroethane	67721	ND		1600
Indeno(1,2,3-cd)pyrene	193395	1900		1600
Isophorone	78591	ND		1600
Methyl methanesulfonate	66273	ND		1600
N-Nitroso-di-^n-propylamine	621647	ND		1600
N-Nitroso-di-n-butylamine	924163	ND		1600
N-Nitrosodiphenylamine	86306	ND		1600
N-Nitrosopiperidine	100754	ND		1600
Naphthalene	91203	330	J	1600
Nitrobenzene	98953	ND		1600
Pentachlorobenzene	608935	ND		1600
Pentachloronitrobenzene	82688	ND		7600
Pentachlorophenol	87865	ND		7600
Phenacetin	62442	ND		1600
Phenanthrene	85018	3900		1600
Phenol	108952	ND		1600
Pronamide	23950585	ND		1600
Pyrene	129000	5800		1600
Saturated Hydrocarbon: >C20	7319043800	1100		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
Trimethylene oxide	503300	780	1	1.2
a,a-Dimethylphenethyl-^amine	122098	ND		1600
bis(2-Chloroethoxy)^methane	111911	ND		1600
bis(2-Chloroethyl) ether	111444	ND		1600
bis(2-Chloroisopropyl)^ether	108601	ND		1600
bis(2-Ethylhexyl)^phthalate	117817	610	J	1600
p-Dimethylaminoazobenzene	60117	ND		1600

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.9
1,1,1-Trichloroethane	71556	ND		5.9
1,1,2,2-Tetrachloroethane	79345	ND		5.9
1,1,2-Trichloroethane	79005	ND		5.9
1,1-Dichloroethane	75343	ND		5.9
1,1-Dichloroethene	75354	ND		5.9
1,2,3-Trichloropropane	96184	ND		5.9
1,2-Dichloroethane	107062	ND		5.9

Matrix : SEDIMENT

Client Description	SC-EE02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.9
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		5.9
Bromodichloromethane	75274	ND		5.9
Bromoform	75252	ND		5.9
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		5.9
Carbon tetrachloride	56235	ND		5.9
Chlorobenzene	108907	ND		5.9
Chloroethane	75003	ND		12
Chloroform	67663	ND		5.9
Chloromethane	74873	ND		12
Cyclic Hydrocarbon	76904300	10		
Cyclic Hydrocarbon	76904300	11		
Cyclic Hydrocarbon	76904300	6.4		
Cyclopentane, 1,2-dibutyl-	62199524	17	1	1.2
Decane, 4-methyl-	09751	7.5	1	1.2
Dibromochloromethane	124481	ND		5.9
Dibromomethane	74953	ND		5.9
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		5.9
Iodomethane	74884	ND		5.9
Methylene chloride	75092	ND		5.9
Octane, 2,3,7-trimethyl-	09740	13	1	1.2
Styrene	100425	ND		5.9
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	2.1	J	5.9
Toluene	108883	ND		5.9
Trichloroethene	79016	ND		5.9
Trichlorofluoromethane	75694	ND		5.9
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		5.9
cis-1,3-Dichloropropene	10061015	ND		5.9
trans-1,2-Dichloroethene	156605	ND		5.9
trans-1,3-Dichloropropene	10061026	ND		5.9
trans-1,4-Dichloro-2-butene	110576	ND		5.9

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		390
4,4'-DDE	72559	ND		390
4,4'-DDT	50293	ND		390
Aldrin	309002	ND		200
Aroclor 1016	12674112	ND		3900
Aroclor 1221	11104282	ND		3900
Aroclor 1232	11141165	ND		3900
Aroclor 1242	53469219	ND		3900
Aroclor 1248	12672296	ND		3900

Matrix : SEDIMENT

Client Description	SC-EE02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	27000		3900
Aroclor 1254	11097691	28000		3900
Aroclor 1260	11096825	ND		3900
Dieldrin	60571	ND		390
Endosulfan I	959988	ND		200
Endosulfan II	33213659	ND		390
Endosulfan sulfate	1031078	ND		390
Endrin	72208	ND		390
Endrin aldehyde	7421934	ND		390
Heptachlor	76448	ND		200
Heptachlor epoxide	1024573	ND		200
Methoxychlor	72435	ND		2000
Toxaphene	8001352	ND		20000
alpha-BHC	319846	ND		200
alpha-Chlordane	5103719	ND		200
beta-BHC	319857	ND		200
delta-BHC	319868	ND		200
gamma-BHC (Lindane)	58899	ND		200
gamma-Chlordane	5103742	ND		200

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		2.4

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.085	J	0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.1		0.59

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	947		59.2
Antimony	7440360	ND		35.5
Barium	7440393	675		5.9
Beryllium	7440417	ND		1.2
Cadmium	7440439	ND		3.0
Calcium	7440702	270000		118
Chromium	7440473	24.8		5.9
Cobalt	7440484	ND		5.9
Copper	7440508	82.7		11.8
Iron	7439896	7300		59.2
Lead	7439921	ND		29.6
Magnesium	7439954	10100		118
Manganese	7439965	215		5.9
Molybdenum	7439987	ND		11.8
Nickel	7440020	57.4		23.7
Potassium	7440097	ND		2960

Matrix : SEDIMENT

Client Description	SC-EE02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	ND		5.9
Sodium	7440235	ND		2960
Vanadium	7440622	4.3	J	5.9
Zinc	7440666	166		11.8

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	44300		2000

Matrix : SEDIMENT

Client Description	SC-EE03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.58

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		770
1,2,4-Trichlorobenzene	120821	ND		770
1,2-Dichlorobenzene	95501	ND		770
1,3-Dichlorobenzene	541731	ND		770
1,4-Dichlorobenzene	106467	ND		770
1-Chloronaphthalene	90131	ND		5800
1-Naphthylamine	134327	ND		770
2,3,4,6-Tetrachlorophenol	58902	ND		3700
2,4,5-Trichlorophenol	95954	ND		3700
2,4,6-Trichlorophenol	88062	ND		770
2,4-Dichlorophenol	120832	ND		770
2,4-Difluorotoluene	452766	710	1	1.2
2,4-Dimethylphenol	105679	ND		770
2,4-Dinitrophenol	51285	ND		3700
2,4-Dinitrotoluene	121142	ND		770
2,6-Dichlorophenol	87650	ND		770
2,6-Dinitrotoluene	606202	ND		770
2,6-Piperidinedione, 3-ethyl-	25115699	2100	1	1.2
2-Chloronaphthalene	91587	ND		770
2-Chlorophenol	95578	ND		770
2-Hexenal diethyl acetal, trans-	61147873	3300	1	1.2
2-Methylnaphthalene	91576	ND		770
2-Methylphenol	95487	ND		770
2-Naphthalenepropanoic acid,^.beta.-ethyl-5-!	57274563	2300	1z	1.2
2-Naphthylamine	91598	ND		770
2-Nitrophenol	88755	ND		770
2-Norpinanol, 3,6,6-trimethyl-	29548092	740	1	1.2
2-Pentanone, 4-hydroxy-4-methyl-	123422	9700	2A	2.3
2-Pentenoic acid, 4-oxo-,methyl^ ester, (E)-	2833241	970	1	1.2
2-Picoline	109068	ND		770
2H-Pyran, 2-(bromomethyl)^tetrahydro-	34723825	2100	1	1.2
3,3'-Dichlorobenzidine	91941	ND		1500
3-Methylcholanthrene	56495	ND		770
3-Nitroaniline	99092	ND		3700
3-Octanone-N-methyl-N-formylhydrazone	61748194	1300	1	1.2
3/4-Methylphenol	7820600	ND		770
4,6-Dinitro-^2-methylphenol	534521	ND		3700
4-Aminobiphenyl	92671	ND		770
4-Bromophenyl^phenyl ether	101553	ND		770
4-Chloro-3-methylphenol	59507	ND		770
4-Chloroaniline	106478	ND		770
4-Chlorophenyl ^phenyl ether	7005723	ND		770
4-Nitroaniline	100016	ND		3700
4-Nitrophenol	100027	ND		3700
7,12-Dimethylbenz(a)-^anthracene	57976	ND		770
7-Tridecanone	462180	3200	1	1.2
Acenaphthene	83329	270	J	770
Acenaphthylene	208968	ND		770
Acetophenone	98862	ND		770
Aniline	62533	ND		770
Anthracene	120127	870		770
Azobenzene	103333	ND		5800
Benzidine	92875	ND		5800
Benzo(a)anthracene	56553	3600		770
Benzo(a)pyrene	50328	2700		770
Benzo(b)fluoranthene	205992	3700		770
Benzo(e)pyrene	192972	1900	2	2.3
Benzo(g,h,i)perylene	191242	1200		770
Benzo(k)fluoranthene	207089	1500		770
Benzoic acid	65850	ND		5800
Benzyl alcohol	100516	ND		770

Matrix : SEDIMENT

Client Description	SC-EE03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Butanamide, N-(4-chlorophenyl)-3-oxo-	101928	4500	1	1.2
Butyl benzyl phthalate	85687	ND		770
Chrysene	218019	4400		770
Decanoic acid, 2-hydroxy-1-^(hydroxymethyl)ethyl!	3376485	1800	2z	2.3
Di-n-butyl phthalate	84742	ND		770
Di-n-octyl phthalate	117840	ND		770
Dibenz(a,h)anthracene	53703	ND		770
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	170	J	770
Diethyl phthalate	84662	ND		770
Dimethyl phthalate	131113	ND		770
Diphenylamine	122394	ND		770
Ethyl methanesulfonate	62500	ND		770
Fluoranthene	206440	7200		770
Fluorene	86737	230	J	770
Heptanoic acid, anhydride	626277	3700	1	1.2
Hexachlorobenzene	118741	ND		770
Hexachlorobutadiene	87683	ND		770
Hexachlorocyclopentadiene	77474	ND		770
Hexachloroethane	67721	ND		770
Indeno(1,2,3-cd)pyrene	193395	1200		770
Isophorone	78591	ND		770
Methyl methanesulfonate	66273	ND		770
Methylprylon	125644	3200	1	1.2
Methylprylon	125644	820	1	1.2
N-Nitroso-di-^n-propylamine	621647	ND		770
N-Nitroso-di-n-butylamine	924163	ND		770
N-Nitrosodiphenylamine	86306	ND		770
N-Nitrosopiperidine	100754	ND		770
Naphthalene	91203	260	J	770
Nitrobenzene	98953	ND		770
Nonanedioic acid, bis(2-^ethylhexyl) ester	103242	4500	1	1.2
Pentachlorobenzene	608935	ND		770
Pentachloronitrobenzene	82688	ND		3700
Pentachlorophenol	87865	ND		3700
Phenacetin	62442	ND		770
Phenanthrene	85018	4800		770
Phenol	108952	ND		770
Pronamide	23950585	ND		770
Pyrene	129000	6700		770
Quinoline, 2,4-dimethyl-	1198374	1300	1	1.2
Saturated Hydrocarbon: >C20	7319043800	1200	2	2.3
Saturated Hydrocarbon: C10-C20	731904300	1300		
Saturated Hydrocarbon: C10-C20	731904300	1500		
Saturated Hydrocarbon: C10-C20	731904300	950		
Thiazole, 4-ethyl-2-propyl-	41981684	2000	1	1.2
Triphenylene, 2-methyl-	1705846	590	1	1.2
a,a-Dimethylphenethyl-^amine	122098	ND		770
bis(2-Chloroethoxy)^methane	111911	ND		770
bis(2-Chloroethyl) ether	111444	ND		770
bis(2-Chloroisopropyl)^ether	108601	ND		770
bis(2-Ethylhexyl)^phthalate	117817	2000		770
p-Dimethylaminoazobenzene	60117	ND		770
trans,cis-2,3-Dimethyl-4-^(iodomethyl)-.gamma!	88431316	1500	1z	1.2

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.8
1,1,1-Trichloroethane	71556	ND		5.8
1,1,2,2-Tetrachloroethane	79345	ND		5.8
1,1,2-Trichloroethane	79005	ND		5.8
1,1-Dichloroethane	75343	ND		5.8
1,1-Dichloroethene	75354	ND		5.8
1,2,3-Trichloropropane	96184	ND		5.8
1,2-Dichloroethane	107062	ND		5.8

Matrix : SEDIMENT

Client Description	SC-EE03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.8
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	4.2	J	12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		5.8
Bromodichloromethane	75274	ND		5.8
Bromoform	75252	ND		5.8
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		5.8
Carbon tetrachloride	56235	ND		5.8
Chlorobenzene	108907	ND		5.8
Chloroethane	75003	ND		12
Chloroform	67663	ND		5.8
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		5.8
Dibromomethane	74953	ND		5.8
Dichlorodifluoromethane	75718	ND		23
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		23
Ethylbenzene	100414	ND		5.8
Iodomethane	74884	ND		5.8
Methylene chloride	75092	ND		5.8
None Detected	320100	ND		
Styrene	100425	ND		5.8
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.8
Toluene	108883	ND		5.8
Trichloroethene	79016	ND		5.8
Trichlorofluoromethane	75694	ND		5.8
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		5.8
cis-1,3-Dichloropropene	10061015	ND		5.8
trans-1,2-Dichloroethene	156605	ND		5.8
trans-1,3-Dichloropropene	10061026	ND		5.8
trans-1,4-Dichloro-2-butene	110576	ND		5.8

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		39
4,4'-DDE	72559	ND		39
4,4'-DDT	50293	ND		39
Aldrin	309002	ND		20
Aroclor 1016	12674112	ND		390
Aroclor 1221	11104282	ND		390
Aroclor 1232	11141165	ND		390
Aroclor 1242	53469219	ND		390
Aroclor 1248	12672296	ND		390

Matrix : SEDIMENT

Client Description	SC-EE03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	670		390
Aroclor 1254	11097691	750		390
Aroclor 1260	11096825	ND		390
Dieldrin	60571	ND		39
Endosulfan I	959988	ND		20
Endosulfan II	33213659	ND		39
Endosulfan sulfate	1031078	ND		39
Endrin	72208	ND		39
Endrin aldehyde	7421934	ND		39
Heptachlor	76448	ND		20
Heptachlor epoxide	1024573	ND		20
Methoxychlor	72435	ND		200
Toxaphene	8001352	ND		2000
alpha-BHC	319846	ND		20
alpha-Chlordane	5103719	ND		20
beta-BHC	319857	ND		20
delta-BHC	319868	ND		20
gamma-BHC (Lindane)	58899	ND		20
gamma-Chlordane	5103742	ND		20

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.18		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.1		0.58

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1310		11.7
Antimony	7440360	ND		7.0
Barium	7440393	2300		1.2
Beryllium	7440417	0.14	J	0.23
Cadmium	7440439	2.5		0.58
Calcium	7440702	113000		23.3
Chromium	7440473	29.6		1.2
Cobalt	7440484	1.9		1.2
Copper	7440508	13.0		2.3
Iron	7439896	4080		11.7
Lead	7439921	74.5		5.8
Magnesium	7439954	5860		23.3
Manganese	7439965	160		1.2
Molybdenum	7439987	ND		2.3
Nickel	7440020	20.2		4.7
Potassium	7440097	249	J	583

Matrix : SEDIMENT

Client Description	SC-EE03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	ND		1.2
Sodium	7440235	ND		583
Vanadium	7440622	6.8		1.2
Zinc	7440666	340		2.3

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	22300		2000

Matrix : SEDIMENT

Client Description	SC-EE04-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.60

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		400
1,2,4-Trichlorobenzene	120821	ND		400
1,2-Dichlorobenzene	95501	ND		400
1,3-Dichlorobenzene	541731	ND		400
1,4-Dichlorobenzene	106467	ND		400
1-Chloronaphthalene	90131	ND		3000
1-Naphthylamine	134327	ND		400
11H-Benzo[b]fluorene	243174	180	2	2.4
2,3,4,6-Tetrachlorophenol	58902	ND		1900
2,4,5-Trichlorophenol	95954	ND		1900
2,4,6-Trichlorophenol	88062	ND		400
2,4-Dichlorophenol	120832	ND		400
2,4-Dimethylphenol	105679	ND		400
2,4-Dinitrophenol	51285	ND		1900
2,4-Dinitrotoluene	121142	ND		400
2,6-Dichlorophenol	87650	ND		400
2,6-Dinitrotoluene	606202	ND		400
2-Chloronaphthalene	91587	ND		400
2-Chlorophenol	95578	ND		400
2-Ethoxy-1-methyl-6-oxo-1,2-^azaphosphina 2-oxide	93989005	850	1	1.2
2-Methylnaphthalene	91576	50	J	400
2-Methylphenol	95487	ND		400
2-Naphthylamine	91598	ND		400
2-Nitrophenol	88755	ND		400
2-Pentanone, 4-hydroxy-4-methyl-	123422	9100	2A	2.4
2-Picoline	109068	ND		400
3,3'-Dichlorobenzidine	91941	ND		800
3-Methylcholanthrene	56495	ND		400
3-Nitroaniline	99092	ND		1900
3/4-Methylphenol	7820600	ND		400
4,6-Dinitro-^2-methylphenol	534521	ND		1900
4-Aminobiphenyl	92671	ND		400
4-Bromophenyl^phenyl ether	101553	ND		400
4-Chloro-3-methylphenol	59507	ND		400
4-Chloroaniline	106478	ND		400
4-Chlorophenyl ^phenyl ether	7005723	ND		400
4-Nitroaniline	100016	ND		1900
4-Nitrophenol	100027	ND		1900
7,12-Dimethylbenz(a)-^anthracene	57976	ND		400
9,10-Anthracenedione	84651	360	2	2.4
Acenaphthene	83329	150	J	400
Acenaphthylene	208968	ND		400
Acetophenone	98862	ND		400
Aniline	62533	ND		400
Anthracene	120127	160	J	400
Azobenzene	103333	ND		3000
Benzidine	92875	ND		3000
Benzo(a)anthracene	56553	1000		400
Benzo(a)pyrene	50328	900		400
Benzo(b)fluoranthene	205992	1900		400
Benzo(e)pyrene	192972	810	2	2.4
Benzo(g,h,i)perylene	191242	440		400
Benzo(k)fluoranthene	207089	ND		400
Benzoic acid	65850	ND		3000
Benzyl alcohol	100516	ND		400
Butyl benzyl phthalate	85687	ND		400
Cholesterol	57885	410	2	2.4
Chrysene	218019	1100		400
Di-n-butyl phthalate	84742	320	J	400
Di-n-octyl phthalate	117840	ND		400
Dibenz(a,h)anthracene	53703	ND		400

Matrix : SEDIMENT

Client Description	SC-EE04-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	110	J	400
Diethyl phthalate	84662	ND		400
Dimethyl phthalate	131113	ND		400
Diphenylamine	122394	ND		400
Ethyl methanesulfonate	62500	ND		400
Fluoranthene	206440	2000		400
Fluorene	86737	120	J	400
Hexachlorobenzene	118741	ND		400
Hexachlorobutadiene	87683	ND		400
Hexachlorocyclopentadiene	77474	ND		400
Hexachloroethane	67721	ND		400
Indeno(1,2,3-cd)pyrene	193395	400		400
Isophorone	78591	ND		400
Methyl methanesulfonate	66273	ND		400
N-Nitroso-di-^n-propylamine	621647	ND		400
N-Nitroso-di-n-butylamine	924163	ND		400
N-Nitrosodiphenylamine	86306	ND		400
N-Nitrosopiperidine	100754	ND		400
Naphthalene	91203	190	J	400
Nitrobenzene	98953	ND		400
Pentachlorobenzene	608935	ND		400
Pentachloronitrobenzene	82688	ND		1900
Pentachlorophenol	87865	ND		1900
Phenacetin	62442	ND		400
Phenanthrene	85018	1700		400
Phenol	108952	ND		400
Pronamide	23950585	ND		400
Pyrene	129000	1800		400
Saturated Hydrocarbon: >C20	7319043800	1000		
Saturated Hydrocarbon: >C20	7319043800	2400		
Saturated Hydrocarbon: >C20	7319043800	250		
Saturated Hydrocarbon: >C20	7319043800	260		
Saturated Hydrocarbon: >C20	7319043800	280		
Saturated Hydrocarbon: >C20	7319043800	620		
Saturated Hydrocarbon: >C20	7319043800	970		
Saturated Hydrocarbon: C10-C20	731904300	180		
Saturated Hydrocarbon: C10-C20	731904300	210		
Saturated Hydrocarbon: C10-C20	731904300	220		
Saturated Hydrocarbon: C10-C20	731904300	250		
Saturated Hydrocarbon: C10-C20	731904300	260		
Saturated Hydrocarbon: C10-C20	731904300	280		
Saturated Hydrocarbon: C10-C20	731904300	310		
Stannane, chlorotris(2-methylpropyl)-	7342383	870	2	2.4
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	300	1	1.2
TID Compound 25	9382902	ND		
Triphenylene, 2-methyl-	1705846	770	2	2.4
[1S-(1.alpha.,2.beta.,4a.alpha.,^8a.alpha.)]-2-!	87764145	440	1z	1.2
a,a-Dimethylphenethyl-^amine	122098	ND		400
bis(2-Chloroethoxy)^methane	111911	ND		400
bis(2-Chloroethyl) ether	111444	ND		400
bis(2-Chloroisopropyl)^ether	108601	ND		400
bis(2-Ethylhexyl)^phthalate	117817	450		400
p-Dimethylaminoazobenzene	60117	ND		400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.0
1,1,1-Trichloroethane	71556	ND		6.0
1,1,2,2-Tetrachloroethane	79345	ND		6.0
1,1,2-Trichloroethane	79005	ND		6.0
1,1-Dichloroethane	75343	ND		6.0
1,1-Dichloroethene	75354	ND		6.0
1,2,3-Trichloropropane	96184	ND		6.0
1,2-Dichloroethane	107062	ND		6.0

Matrix : SEDIMENT

Client Description	SC-EE04-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		6.0
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	27		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.0
Bromodichloromethane	75274	ND		6.0
Bromoform	75252	ND		6.0
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.0
Carbon tetrachloride	56235	ND		6.0
Chlorobenzene	108907	ND		6.0
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.0
Chloromethane	74873	ND		12
Cyclooctane, 1,4-dimethyl-, trans-	06462	6.1	1	1.2
Dibromochloromethane	124481	ND		6.0
Dibromomethane	74953	ND		6.0
Dichlorodifluoromethane	75718	ND		24
Dodecane	12779	8.4	1	1.2
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.0
Iodomethane	74884	ND		6.0
Methylene chloride	75092	ND		6.0
Styrene	100425	ND		6.0
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.0
Toluene	108883	20		6.0
Trichloroethene	79016	ND		6.0
Trichlorofluoromethane	75694	ND		6.0
Tridecane, 7-methyl-	26730143	12	1	1.2
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.0
cis-1,3-Dichloropropene	10061015	ND		6.0
trans-1,2-Dichloroethene	156605	ND		6.0
trans-1,3-Dichloropropene	10061026	ND		6.0
trans-1,4-Dichloro-2-butene	110576	ND		6.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		20
4,4'-DDE	72559	ND		20
4,4'-DDT	50293	ND		20
Aldrin	309002	ND		10
Aroclor 1016	12674112	ND		200
Aroclor 1221	11104282	ND		200
Aroclor 1232	11141165	ND		200
Aroclor 1242	53469219	ND		200
Aroclor 1248	12672296	ND		200

Matrix : SEDIMENT

Client Description	SC-EE04-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	530		200
Aroclor 1260	11096825	ND		200
Dieldrin	60571	ND		20
Endosulfan I	959988	ND		10
Endosulfan II	33213659	ND		20
Endosulfan sulfate	1031078	ND		20
Endrin	72208	ND		20
Endrin aldehyde	7421934	ND		20
Heptachlor	76448	ND		10
Heptachlor epoxide	1024573	ND		10
Methoxychlor	72435	ND		100
Toxaphene	8001352	ND		1000
alpha-BHC	319846	ND		10
alpha-Chlordane	5103719	ND		10
beta-BHC	319857	ND		10
delta-BHC	319868	ND		10
gamma-BHC (Lindane)	58899	ND		10
gamma-Chlordane	5103742	ND		10

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.6		0.60

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1950		12.1
Antimony	7440360	ND		7.2
Barium	7440393	268		1.2
Beryllium	7440417	0.20	J	0.24
Cadmium	7440439	3.0		0.60
Calcium	7440702	49600		24.1
Chromium	7440473	36.9		1.2
Cobalt	7440484	2.0		1.2
Copper	7440508	29.0		2.4
Iron	7439896	4350		12.1
Lead	7439921	34.9		6.0
Magnesium	7439954	4540		24.1
Manganese	7439965	150		1.2
Molybdenum	7439987	ND		2.4
Nickel	7440020	30.3		4.8
Potassium	7440097	290	J	604
Silver	7440224	ND		1.2

Matrix : SEDIMENT

Client Description	SC-EE04-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		604
Vanadium	7440622	12.4		1.2
Zinc	7440666	66.5		2.4

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	12900		2000

Matrix : SEDIMENT

Client Description	SC-EE05-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	6.2		0.64

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1':2',1"-Terphenyl, 2,5-dichloro-	61577024	2400	1	1.3
1,1':2',1"-Terphenyl, 2,5-dichloro-	61577024	5800	1	1.3
1,2,4,5-Tetrachloro-^benzene	95943	ND		2100
1,2,4-Trichlorobenzene	120821	ND		2100
1,2-Dichlorobenzene	95501	ND		2100
1,3-Dichlorobenzene	541731	ND		2100
1,4-Dichlorobenzene	106467	ND		2100
1-Bromo-2,8-dimethoxy-5,6-^dihydrochrysene	71505889	2300	1	1.3
1-Chloronaphthalene	90131	240	J	16000
1-Naphthylamine	134327	ND		2100
10H-Phenothiaphosphine, 7-chloro-^2-fluor-10-hydr!	54934848	3400	1z	1.3
10H-Phenothiaphosphine, 7-chloro-^2-fluor-10-hydr!	54934848	3600	1z	1.3
11-Hydroxy-7,8,9,10-tetrahydrobenzo^[b]xanthene-1!	83344789	1100	1z	1.3
2,3,4,6-Tetrachlorophenol	58902	ND		10000
2,4,5-Trichlorophenol	95954	ND		10000
2,4,6-Trichlorophenol	88062	ND		2100
2,4-Dichlorophenol	120832	ND		2100
2,4-Dimethylphenol	105679	ND		2100
2,4-Dinitrophenol	51285	ND		10000
2,4-Dinitrotoluene	121142	ND		2100
2,6-Dichlorophenol	87650	ND		2100
2,6-Dinitrotoluene	606202	ND		2100
2-Chloronaphthalene	91587	ND		2100
2-Chlorophenol	95578	ND		2100
2-Methylnaphthalene	91576	ND		2100
2-Methylphenol	95487	ND		2100
2-Naphthylamine	91598	ND		2100
2-Nitrophenol	88755	ND		2100
2-Picoline	109068	ND		2100
3,3'-Dichlorobenzidine	91941	ND		4200
3-Methylcholanthrene	56495	ND		2100
3-Nitroaniline	99092	ND		10000
3/4-Methylphenol	7820600	ND		2100
4,6-Dinitro-^2-methylphenol	534521	ND		10000
4-Aminobiphenyl	92671	ND		2100
4-Bromophenyl^phenyl ether	101553	ND		2100
4-Chloro-3-methylphenol	59507	ND		2100
4-Chloroaniline	106478	ND		2100
4-Chlorophenyl ^phenyl ether	7005723	ND		2100
4-Nitroaniline	100016	ND		10000
4-Nitrophenol	100027	ND		10000
4H-Cyclopenta[def]phenanthrene	203645	860	2	2.6
7,12-Dimethylbenz(a)-^anthracene	57976	ND		2100
Acenaphthene	83329	980	J	2100
Acenaphthylene	208968	ND		2100
Acetophenone	98862	ND		2100
Aniline	62533	ND		2100
Anthracene	120127	1200	J	2100
Anthracene, 9-butyltetradecahydro-	55133896	1700	1	1.3
Azobenzene	103333	ND		16000
Benzidine	92875	ND		16000
Benzo(a)anthracene	56553	3700		2100
Benzo(a)pyrene	50328	3300		2100
Benzo(b)fluoranthene	205992	5800		2100
Benzo(g,h,i)perylene	191242	1300	J	2100
Benzo(k)fluoranthene	207089	ND		2100
Benzoic acid	65850	ND		16000
Benzyl alcohol	100516	ND		2100
Butyl benzyl phthalate	85687	ND		2100
Carbazole	86748	860	2	2.6
Chromone, 3,5-dibromo-6-hydroxy-2-^methyl-	30095773	2100	1	1.3

Matrix : SEDIMENT

Client Description	SC-EE05-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chromone, 3,5-dibromo-6-hydroxy-2-^methyl-	30095773	3000	1	1.3
Chromone, 3,5-dibromo-6-hydroxy-2-^methyl-	30095773	3700	1	1.3
Chromone, 3,5-dibromo-6-hydroxy-2-^methyl-	30095773	5900	1	1.3
Chrysene	218019	4400		2100
Di-n-butyl phthalate	84742	1300	J	2100
Di-n-octyl phthalate	117840	ND		2100
Dibenz(a,h)anthracene	53703	ND		2100
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	540	J	2100
Dibenzothiophene	132650	1600	2	2.6
Diethyl phthalate	84662	ND		2100
Dimethyl phthalate	131113	ND		2100
Diphenylamine	122394	ND		2100
Ethyl methanesulfonate	62500	ND		2100
Fluoranthene	206440	9600		2100
Fluorene	86737	880	J	2100
Hexachlorobenzene	118741	ND		2100
Hexachlorobutadiene	87683	ND		2100
Hexachlorocyclopentadiene	77474	ND		2100
Hexachloroethane	67721	ND		2100
Indeno(1,2,3-cd)pyrene	193395	1400	J	2100
Isophorone	78591	ND		2100
Methyl methanesulfonate	66273	ND		2100
N-Nitroso-di-^n-propylamine	621647	ND		2100
N-Nitroso-di-n-butylamine	924163	ND		2100
N-Nitrosodiphenylamine	86306	ND		2100
N-Nitrosopiperidine	100754	ND		2100
Naphthalene	91203	760	J	2100
Naphthalene, 1,3,5,7-tetrachloro-	53555649	990	2	2.6
Naphthalene, 1,3,7-trichloro-	55720371	1300	2	2.6
Naphthalene, 1,4,6,7-tetrachloro-	55720439	1400	2	2.6
Naphthalene, 1,4,6,7-tetrachloro-	55720439	2100	2	2.6
Naphthalene, 1,4,6,7-tetrachloro-	55720439	2700	2	2.6
Nitrobenzene	98953	ND		2100
P-Terphenyl, 2,5-dichloro-	61576838	1900	1	1.3
Pentachlorobenzene	608935	ND		2100
Pentachloronitrobenzene	82688	ND		10000
Pentachlorophenol	87865	ND		10000
Perylene	198550	1700	2	2.6
Phenacetin	62442	ND		2100
Phenanthrene	85018	8800		2100
Phenol	108952	ND		2100
Pronamide	23950585	ND		2100
Pyrene	129000	7300		2100
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		2100
bis(2-Chloroethoxy)^methane	111911	ND		2100
bis(2-Chloroethyl) ether	111444	ND		2100
bis(2-Chloroisopropyl)^ether	108601	ND		2100
bis(2-Ethylhexyl)^phthalate	117817	5300		2100
p-Dimethylaminoazobenzene	60117	ND		2100

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.4
1,1,1-Trichloroethane	71556	ND		6.4
1,1,2,2-Tetrachloroethane	79345	ND		6.4
1,1,2-Trichloroethane	79005	ND		6.4
1,1-Dichloroethane	75343	ND		6.4
1,1-Dichloroethene	75354	ND		6.4
1,2,3-Trichloropropane	96184	ND		6.4
1,2-Dichloroethane	107062	ND		6.4
1,2-Dichloropropane	78875	ND		6.4

Matrix : SEDIMENT

Client Description	SC-EE05-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	ND		13
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
Acetone	67641	4.8	J	13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.4
Bromodichloromethane	75274	ND		6.4
Bromoform	75252	ND		6.4
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.4
Carbon tetrachloride	56235	ND		6.4
Chlorobenzene	108907	ND		6.4
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.4
Chloromethane	74873	ND		13
Dibromochloromethane	124481	ND		6.4
Dibromomethane	74953	ND		6.4
Dichlorodifluoromethane	75718	ND		26
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		26
Ethylbenzene	100414	ND		6.4
Iodomethane	74884	ND		6.4
Methylene chloride	75092	ND		6.4
None Detected	320100	ND		
Styrene	100425	ND		6.4
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.4
Toluene	108883	ND		6.4
Trichloroethene	79016	ND		6.4
Trichlorofluoromethane	75694	ND		6.4
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.4
cis-1,3-Dichloropropene	10061015	ND		6.4
trans-1,2-Dichloroethene	156605	ND		6.4
trans-1,3-Dichloropropene	10061026	ND		6.4
trans-1,4-Dichloro-2-butene	110576	ND		6.4

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4200
4,4'-DDE	72559	ND		4200
4,4'-DDT	50293	ND		4200
Aldrin	309002	ND		2200
Aroclor 1016	12674112	ND		42000
Aroclor 1221	11104282	ND		42000
Aroclor 1232	11141165	ND		42000
Aroclor 1242	53469219	ND		42000
Aroclor 1248	12672296	ND		42000
Aroclor 1254	11097691	ND		42000

Matrix : SEDIMENT

Client Description	SC-EE05-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		42000
Dieldrin	60571	10000	M	4200
Dieldrin	60571	23000		4200
Endosulfan I	959988	ND		2200
Endosulfan II	33213659	ND		4200
Endosulfan sulfate	1031078	ND		4200
Endrin	72208	ND		4200
Endrin aldehyde	7421934	ND		4200
Heptachlor	76448	3300		2200
Heptachlor	76448	3400		2200
Heptachlor epoxide	1024573	ND		2200
Methoxychlor	72435	ND		22000
Toxaphene	8001352	ND		220000
alpha-BHC	319846	ND		2200
alpha-Chlordane	5103719	4600		2200
alpha-Chlordane	5103719	9400		2200
beta-BHC	319857	ND		2200
delta-BHC	319868	ND		2200
gamma-BHC (Lindane)	58899	ND		2200
gamma-Chlordane	5103742	ND		2200

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.3

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.64

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.20		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	2.7		0.64

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	55800		12.8
Antimony	7440360	7.3	J	7.7
Barium	7440393	761		1.3
Beryllium	7440417	0.49		0.26
Cadmium	7440439	206		0.64
Calcium	7440702	71500		25.5
Chromium	7440473	749		1.3
Cobalt	7440484	8.5		1.3
Copper	7440508	2400		2.6
Iron	7439896	10100		12.8
Lead	7439921	136		6.4
Magnesium	7439954	8390		25.5
Manganese	7439965	945		1.3
Molybdenum	7439987	0.99	J	2.6
Nickel	7440020	331		5.1

Matrix : SEDIMENT

Client Description	SC-EE05-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Potassium	7440097	309	J	638
Silver	7440224	12.3		1.3
Sodium	7440235	ND		638
Vanadium	7440622	25.3		1.3
Zinc	7440666	485		2.6

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	7440		2000

Matrix : SEDIMENT

Client Description	SC-EE06-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		1.1

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(+)-(1S,2R)-1-Butyl-2-^ethylcyclopentane	87761044	3500	1	2.3
1,2,4,5-Tetrachloro-^benzene	95943	ND		3800
1,2,4-Trichlorobenzene	120821	ND		3800
1,2-Dichlorobenzene	95501	ND		3800
1,3-Dichlorobenzene	541731	ND		3800
1,4-Dichlorobenzene	106467	ND		3800
1-Chloronaphthalene	90131	ND		28000
1-Naphthylamine	134327	ND		3800
2,3,4,6-Tetrachlorophenol	58902	ND		18000
2,4,5-Trichlorophenol	95954	ND		18000
2,4,6-Trichlorophenol	88062	ND		3800
2,4-Dichlorophenol	120832	ND		3800
2,4-Dimethylphenol	105679	ND		3800
2,4-Dinitrophenol	51285	ND		18000
2,4-Dinitrotoluene	121142	ND		3800
2,6-Dichlorophenol	87650	ND		3800
2,6-Dinitrotoluene	606202	ND		3800
2-Chloronaphthalene	91587	ND		3800
2-Chlorophenol	95578	ND		3800
2-Methylnaphthalene	91576	ND		3800
2-Methylphenol	95487	ND		3800
2-Naphthylamine	91598	ND		3800
2-Nitrophenol	88755	ND		3800
2-Picoline	109068	ND		3800
28-Nor-17.beta.(H)-hopane	36728720	13000	2	4.6
3,3'-Dichlorobenzidine	91941	ND		7500
3-Methylcholanthrene	56495	ND		3800
3-Nitroaniline	99092	ND		18000
3/4-Methylphenol	7820600	ND		3800
4,6-Dinitro-^2-methylphenol	534521	ND		18000
4-Aminobiphenyl	92671	ND		3800
4-Bromophenyl^phenyl ether	101553	ND		3800
4-Chloro-3-methylphenol	59507	ND		3800
4-Chloroaniline	106478	ND		3800
4-Chlorophenyl ^phenyl ether	7005723	ND		3800
4-Nitroaniline	100016	ND		18000
4-Nitrophenol	100027	ND		18000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		3800
Acenaphthene	83329	ND		3800
Acenaphthylene	208968	ND		3800
Acetophenone	98862	ND		3800
Aniline	62533	ND		3800
Anthracene	120127	600	J	3800
Anthracene, 9-dodecyltetradecahydro-	55401757	11000	1	2.3
Azobenzene	103333	ND		28000
Benzidine	92875	ND		28000
Benzo(a)anthracene	56553	2600	J	3800
Benzo(a)pyrene	50328	2600	J	3800
Benzo(b)fluoranthene	205992	4900		3800
Benzo(g,h,i)perylene	191242	1400	J	3800
Benzo(k)fluoranthene	207089	ND		3800
Benzoic acid	65850	ND		28000
Benzyl alcohol	100516	ND		3800
Butyl benzyl phthalate	85687	ND		3800
Chrysene	218019	970	J	3800
Cyclic Hydrocarbon	76904300	4400		
Cyclohexane, 1,2-diethyl-3-methyl-	61141808	3200	2	4.6
Di-n-butyl phthalate	84742	ND		3800
Di-n-octyl phthalate	117840	ND		3800
Dibenz(a,h)anthracene	53703	ND		3800
Dibenz(a,j)acridine	224420	ND		--

Matrix : SEDIMENT

Client Description	SC-EE06-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenzofuran	132649	ND		3800
Diethyl phthalate	84662	ND		3800
Dimethyl phthalate	131113	ND		3800
Diphenylamine	122394	ND		3800
Ethyl methanesulfonate	62500	ND		3800
Fluoranthene	206440	7300		3800
Fluorene	86737	ND		3800
Hexachlorobenzene	118741	ND		3800
Hexachlorobutadiene	87683	ND		3800
Hexachlorocyclopentadiene	77474	ND		3800
Hexachloroethane	67721	ND		3800
Indeno(1,2,3-cd)pyrene	193395	1300	J	3800
Isophorone	78591	ND		3800
Methyl methanesulfonate	66273	ND		3800
N-Nitroso-di-^n-propylamine	621647	ND		3800
N-Nitroso-di-n-butylamine	924163	ND		3800
N-Nitrosodiphenylamine	86306	ND		3800
N-Nitrosopiperidine	100754	ND		3800
Naphthalene	91203	ND		3800
Naphthalene, decahydro-2-methyl-	2958761	3700	2	4.6
Nitrobenzene	98953	ND		3800
Nonane, 5-(2-methylpropyl)-	62185539	3800	2	4.6
Pentachlorobenzene	608935	ND		3800
Pentachloronitrobenzene	82688	ND		18000
Pentachlorophenol	87865	ND		18000
Phenacetin	62442	ND		3800
Phenanthrene	85018	3700	J	3800
Phenol	108952	ND		3800
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	140669	2900	2	4.6
Pronamide	23950585	ND		3800
Pyrene	129000	6000		3800
Saturated Hydrocarbon: >C20	7319043800	12000		
Saturated Hydrocarbon: >C20	7319043800	18000		
Saturated Hydrocarbon: >C20	7319043800	3200		
Saturated Hydrocarbon: >C20	7319043800	3500		
Saturated Hydrocarbon: >C20	7319043800	6300		
Saturated Hydrocarbon: >C20	7319043800	7000		
Saturated Hydrocarbon: >C20	7319043800	7400		
Saturated Hydrocarbon: >C20	7319043800	8900		
Saturated Hydrocarbon: C10-C20	731904300	17000		
Saturated Hydrocarbon: C10-C20	731904300	3300		
Saturated Hydrocarbon: C10-C20	731904300	5100		
Saturated Hydrocarbon: C10-C20	731904300	6100		
Saturated Hydrocarbon: C10-C20	731904300	7900		
Saturated Hydrocarbon: C10-C20	731904300	8200		
Saturated Hydrocarbon: C10-C20	731904300	9800		
a,a-Dimethylphenethyl-^amine	122098	ND		3800
bis(2-Chloroethoxy)^methane	111911	ND		3800
bis(2-Chloroethyl) ether	111444	ND		3800
bis(2-Chloroisopropyl)^ether	108601	ND		3800
bis(2-Ethylhexyl)^phthalate	117817	12000		3800
p-Dimethylaminoazobenzene	60117	ND		3800

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		11
1,1,1-Trichloroethane	71556	ND		11
1,1,2,2-Tetrachloroethane	79345	ND		11
1,1,2-Trichloroethane	79005	ND		11
1,1-Dichloroethane	75343	ND		11
1,1-Dichloroethene	75354	ND		11
1,2,3-Trichloropropane	96184	ND		11
1,2-Dichloroethane	107062	ND		11
1,2-Dichloropropane	78875	ND		11
2-Butanone (MEK)	078933	27		23

Matrix : SEDIMENT

Client Description	SC-EE06-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Chloroethyl vinyl ether	110758	ND		–
2-Hexanone	591786	ND		23
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		23
Acetone	67641	100		23
Acrolein	107028	ND		230
Acrylonitrile	107131	ND		230
Benzene	71432	ND		11
Bromodichloromethane	75274	ND		11
Bromoform	75252	ND		11
Bromomethane	74839	ND		23
Carbon disulfide	75150	ND		11
Carbon tetrachloride	56235	ND		11
Chlorobenzene	108907	240		11
Chloroethane	75003	ND		23
Chloroform	67663	ND		11
Chloromethane	74873	ND		23
Cyclic Hydrocarbon	76904300	130		
Cyclic Hydrocarbon	76904300	210		
Cyclic Hydrocarbon	76904300	250		
Cyclic Hydrocarbon	76904300	720		
Decane, 3-methyl-	13151343	490	1	2.3
Dibromochloromethane	124481	ND		11
Dibromomethane	74953	ND		11
Dichlorodifluoromethane	75718	ND		46
Dodecane, 2,6,10-trimethyl-	21014	530	1	2.3
Dodecane, 2-methyl-6-propyl-	23532	580	1	2.3
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		46
Ethylbenzene	100414	ND		11
Iodomethane	74884	ND		11
Methylene chloride	75092	ND		11
Octane, 2,3,7-trimethyl-	09740	500	1	2.3
Oxygenated Hydrocarbon	5886108200	450		
Styrene	100425	ND		11
Tetrachloroethene	127184	ND		11
Tetradecane, 4-methyl-	21016	58	1	2.3
Toluene	108883	ND		11
Trichloroethene	79016	ND		11
Trichlorofluoromethane	75694	ND		11
Tridecane	15584	360	1	2.3
Undecane, 3,6-dimethyl-	15595	670	1	2.3
Undecane, 3,8-dimethyl-	15604	340	1	2.3
Undecane, 3-ethyl-	17312582	740	1	2.3
Unknown	57200	170		
Vinyl acetate	108054	ND		23
Vinyl chloride	75014	ND		23
Xylenes (total)	1330207	ND		11
cis-1,3-Dichloropropene	10061015	ND		11
trans-1,2-Dichloroethene	156605	ND		11
trans-1,3-Dichloropropene	10061026	ND		11
trans-1,4-Dichloro-2-butene	110576	ND		11

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		38
4,4'-DDE	72559	ND		38
4,4'-DDT	50293	ND		38
Aldrin	309002	25		19
Aldrin	309002	47		19
Aroclor 1016	12674112	ND		380
Aroclor 1221	11104282	ND		380
Aroclor 1232	11141165	ND		380
Aroclor 1242	53469219	ND		380
Aroclor 1248	12672296	ND		380
Aroclor 1254	11097691	1500	M	380

Matrix : SEDIMENT

Client Description	SC-EE06-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	1900		380
Aroclor 1260	11096825	ND		380
Dieldrin	60571	ND		38
Endosulfan I	959988	ND		19
Endosulfan II	33213659	ND		38
Endosulfan sulfate	1031078	ND		38
Endrin	72208	ND		38
Endrin aldehyde	7421934	ND		38
Heptachlor	76448	70		19
Heptachlor	76448	85		19
Heptachlor epoxide	1024573	ND		19
Methoxychlor	72435	ND		190
Toxaphene	8001352	ND		1900
alpha-BHC	319846	ND		19
alpha-Chlordane	5103719	ND		19
beta-BHC	319857	ND		19
delta-BHC	319868	ND		19
gamma-BHC (Lindane)	58899	ND		19
gamma-Chlordane	5103742	ND		19

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		2.3

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	1.1	J	1.1

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	0.50		0.23

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	6.1		1.1

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	14700		22.8
Antimony	7440360	ND		13.7
Barium	7440393	937		2.3
Beryllium	7440417	1.1		0.46
Cadmium	7440439	158		1.1
Calcium	7440702	32300		45.6
Chromium	7440473	1280		2.3
Cobalt	7440484	20.0		2.3
Copper	7440508	394		4.6
Iron	7439896	22900		22.8
Lead	7439921	207		11.4
Magnesium	7439954	6310		45.6
Manganese	7439965	406		2.3
Molybdenum	7439987	14.3		4.6
Nickel	7440020	520		9.1
Potassium	7440097	2010		1140

Matrix : SEDIMENT

Client Description	SC-EE06-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	24.2		2.3
Sodium	7440235	436	J	1140
Vanadium	7440622	55.3		2.3
Zinc	7440666	406		4.6

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	25500		2000

Matrix : SEDIMENT

Client Description	SC-EE07-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.71

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1'-Bicyclopentyl-1,1'-diol	5181759	470	2	2.8
1,2,4,5-Tetrachloro-^benzene	95943	ND		470
1,2,4-Trichlorobenzene	120821	ND		470
1,2-Benzisothiazole	272162	1200	2	2.8
1,2-Dichlorobenzene	95501	ND		470
1,3-Dichlorobenzene	541731	ND		470
1,4-Dichlorobenzene	106467	ND		470
1-Chloronaphthalene	90131	ND		3500
1-Heneicosyl formate	77899037	510	1	1.4
1-Naphthylamine	134327	ND		470
2,3,4,6-Tetrachlorophenol	58902	ND		2300
2,4,5-Trichlorophenol	95954	ND		2300
2,4,6-Trichlorophenol	88062	ND		470
2,4-Dichlorophenol	120832	ND		470
2,4-Dimethylphenol	105679	ND		470
2,4-Dinitrophenol	51285	ND		2300
2,4-Dinitrotoluene	121142	ND		470
2,6-Dichlorophenol	87650	ND		470
2,6-Dinitrotoluene	606202	ND		470
2-Chloronaphthalene	91587	ND		470
2-Chlorophenol	95578	ND		470
2-Methylnaphthalene	91576	ND		470
2-Methylphenol	95487	ND		470
2-Naphthylamine	91598	ND		470
2-Nitrophenol	88755	ND		470
2-Picoline	109068	ND		470
28-Nor-17.alpha.(H)-hopane	53584604	820	1	1.4
28-Nor-17.beta.(H)-hopane	36728720	870	1	1.4
3,3'-Dichlorobenzidine	91941	ND		940
3-(3-Pyridyl)propenoic acid	1126745	690	2	2.8
3-Methylcholanthrene	56495	ND		470
3-Nitroaniline	99092	ND		2300
3/4-Methylphenol	7820600	ND		470
4,6-Dinitro-^2-methylphenol	534521	ND		2300
4-Aminobiphenyl	92671	ND		470
4-Bromophenyl^phenyl ether	101553	ND		470
4-Chloro-3-methylphenol	59507	ND		470
4-Chloroaniline	106478	ND		470
4-Chlorophenyl ^phenyl ether	7005723	ND		470
4-Nitroaniline	100016	ND		2300
4-Nitrophenol	100027	ND		2300
7,12-Dimethylbenz(a)-^anthracene	57976	ND		470
Acenaphthene	83329	94	J	470
Acenaphthylene	208968	ND		470
Acetamide, N-(3-methylphenyl)-	537928	1200	2	2.8
Acetophenone	98862	ND		470
Aniline	62533	ND		470
Anthracene	120127	180	J	470
Azobenzene	103333	ND		3500
Benzidine	92875	ND		3500
Benzo(a)anthracene	56553	710		470
Benzo(a)pyrene	50328	450	J	470
Benzo(b)fluoranthene	205992	ND		470
Benzo(g,h,i)perylene	191242	ND		470
Benzo(k)fluoranthene	207089	1300		470
Benzoic acid	65850	ND		3500
Benzyl alcohol	100516	ND		470
Butyl benzyl phthalate	85687	ND		470
Cholesterol	57885	1100	1	1.4
Chrysene	218019	920		470
D-Norandrostan-16-ol, acetate,^(5.alpha.,16.beta.!	54411620	910	1z	1.4

Matrix : SEDIMENT

Client Description	SC-EE07-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-butyl phthalate	84742	ND		470
Di-n-octyl phthalate	117840	130	J	470
Dibenz(a,h)anthracene	53703	ND		470
Dibenz(a,j)acridine	224420	ND		–
Dibenzofuran	132649	54	J	470
Diethyl phthalate	84662	ND		470
Dimethyl phthalate	131113	ND		470
Diphenylamine	122394	ND		470
Ethyl methanesulfonate	62500	ND		470
Fluoranthene	206440	1700		470
Fluorene	86737	110	J	470
Hexachlorobenzene	118741	ND		470
Hexachlorobutadiene	87683	ND		470
Hexachlorocyclopentadiene	77474	ND		470
Hexachloroethane	67721	ND		470
Hexadecanoic acid	57103	1000	2	2.8
Indeno(1,2,3-cd)pyrene	193395	47	J	470
Isophorone	78591	ND		470
Methyl methanesulfonate	66273	ND		470
N-Nitroso-di-^n-propylamine	621647	ND		470
N-Nitroso-di-n-butylamine	924163	ND		470
N-Nitrosodiphenylamine	86306	ND		470
N-Nitrosopiperidine	100754	ND		470
Naphthalene	91203	69	J	470
Nitrobenzene	98953	ND		470
Oleic Acid	112801	990	2	2.8
Pentachlorobenzene	608935	ND		470
Pentachloronitrobenzene	82688	ND		2300
Pentachlorophenol	87865	ND		2300
Phenacetin	62442	ND		470
Phenanthrene	85018	1200		470
Phenol	108952	ND		470
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	140669	820	2	2.8
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	54932784	670	2	2.8
Phenol, 4-nonyl-	104405	800	2	2.8
Phenol, nonyl-	25154523	1100	2	2.8
Pronamide	23950585	ND		470
Pyrene	129000	1600		470
Saturated Hydrocarbon: >C20	7319043800	1000		
Saturated Hydrocarbon: >C20	7319043800	480		
Saturated Hydrocarbon: >C20	7319043800	610		
Saturated Hydrocarbon: >C20	7319043800	750		
Saturated Hydrocarbon: C10-C20	731904300	1700		
Saturated Hydrocarbon: C10-C20	731904300	380		
Saturated Hydrocarbon: C10-C20	731904300	390		
Saturated Hydrocarbon: C10-C20	731904300	450		
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	2900	1	1.4
a,a-Dimethylphenethyl-^amine	122098	ND		470
bis(2-Chloroethoxy)^methane	111911	ND		470
bis(2-Chloroethyl) ether	111444	ND		470
bis(2-Chloroisopropyl)^ether	108601	ND		470
bis(2-Ethylhexyl)^phthalate	117817	2000		470
p-Dimethylaminoazobenzene	60117	ND		470

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		7.1
1,1,1-Trichloroethane	71556	ND		7.1
1,1,2,2-Tetrachloroethane	79345	ND		7.1
1,1,2-Trichloroethane	79005	ND		7.1
1,1-Dichloroethane	75343	ND		7.1
1,1-Dichloroethene	75354	ND		7.1
1,2,3-Trichloropropane	96184	ND		7.1
1,2-Dichloroethane	107062	ND		7.1
1,2-Dichloropropane	78875	ND		7.1

Matrix : SEDIMENT

Client Description	SC-EE07-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	7.9	J	14
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		14
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		14
Acetone	67641	21		14
Acrolein	107028	ND		140
Acrylonitrile	107131	ND		140
Benzene	71432	ND		7.1
Bromodichloromethane	75274	ND		7.1
Bromoform	75252	ND		7.1
Bromomethane	74839	ND		14
Carbon disulfide	75150	ND		7.1
Carbon tetrachloride	56235	ND		7.1
Chlorobenzene	108907	9.2		7.1
Chloroethane	75003	ND		14
Chloroform	67663	ND		7.1
Chloromethane	74873	ND		14
Cyclic Hydrocarbon	76904300	17		
Cyclic Hydrocarbon	76904300	38		
Cyclic Hydrocarbon	76904300	8.4		
Cyclohexane, 1,2-diethyl-3-methyl-	61141808	20	1	1.4
Cyclohexane, 2-butyl-1,1,3-trimethyl-	54676390	46	1	1.4
Cyclohexane, pentyl-	09293	7.4	1	1.4
Cyclohexanone, 3-methyl-2-(1-^methylethyl)-, cis-!	28357235	15	1z	1.4
Cyclohexanone, 5-methyl-2-(1-^methylethenyl)-, tr!	29606799	10	1z	1.4
Cyclopentane, 1-pentyl-2-propyl-	62199513	9.6	1	1.4
Dibromochloromethane	124481	ND		7.1
Dibromomethane	74953	ND		7.1
Dichlorodifluoromethane	75718	ND		28
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		28
Ethylbenzene	100414	ND		7.1
Iodomethane	74884	ND		7.1
Methylene chloride	75092	2.5	JB	7.1
Naphthalene, decahydro-	91178	8.4	1	1.4
Octane, 2,3,6-trimethyl-	09739	12	1	1.4
Octane, 2,3,7-trimethyl-	09740	28	1	1.4
Styrene	100425	ND		7.1
Tetrachloroethene	127184	ND		7.1
Toluene	108883	ND		7.1
Trichloroethene	79016	ND		7.1
Trichlorofluoromethane	75694	ND		7.1
Undecane, 4,6-dimethyl-	15603	21	1	1.4
Undecane, 4-methyl-	12786	8.0	1	1.4
Unknown	57200	10		
Vinyl acetate	108054	ND		14
Vinyl chloride	75014	ND		14
Xylenes (total)	1330207	ND		7.1
cis-1,3-Dichloropropene	10061015	ND		7.1
trans-1,2-Dichloroethene	156605	ND		7.1
trans-1,3-Dichloropropene	10061026	ND		7.1
trans-1,4-Dichloro-2-butene	110576	ND		7.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		9.4
4,4'-DDE	72559	ND		9.4
4,4'-DDT	50293	ND		9.4
Aldrin	309002	13		4.8
Aldrin	309002	3.8	J	4.8
Aroclor 1016	12674112	ND		94
Aroclor 1221	11104282	ND		94
Aroclor 1232	11141165	ND		94
Aroclor 1242	53469219	ND		94
Aroclor 1248	12672296	ND		94

Matrix : SEDIMENT

Client Description	SC-EE07-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	120	M	94
Aroclor 1254	11097691	320		94
Aroclor 1260	11096825	ND		94
Dieldrin	60571	ND		9.4
Endosulfan I	959988	ND		4.8
Endosulfan II	33213659	ND		9.4
Endosulfan sulfate	1031078	ND		9.4
Endrin	72208	ND		9.4
Endrin aldehyde	7421934	ND		9.4
Heptachlor	76448	16		4.8
Heptachlor	76448	17		4.8
Heptachlor epoxide	1024573	ND		4.8
Methoxychlor	72435	ND		48
Toxaphene	8001352	ND		480
alpha-BHC	319846	ND		4.8
alpha-Chlordane	5103719	ND		4.8
beta-BHC	319857	ND		4.8
delta-BHC	319868	ND		4.8
gamma-BHC (Lindane)	58899	ND		4.8
gamma-Chlordane	5103742	ND		4.8

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.71

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.71

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.14

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.96		0.71

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1710		14.2
Antimony	7440360	ND		8.5
Barium	7440393	178		1.4
Beryllium	7440417	ND		0.28
Cadmium	7440439	8.1		0.71
Calcium	7440702	16600		28.4
Chromium	7440473	126		1.4
Cobalt	7440484	7.9		1.4
Copper	7440508	44.6		2.8
Iron	7439896	3910		14.2
Lead	7439921	15.2		7.1
Magnesium	7439954	1370		28.4
Manganese	7439965	188		1.4
Molybdenum	7439987	ND		2.8
Nickel	7440020	51.6		5.7

Matrix : SEDIMENT

Client Description	SC-EE07-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Potassium	7440097	234	J	709
Silver	7440224	1.7		1.4
Sodium	7440235	ND		709
Vanadium	7440622	8.5		1.4
Zinc	7440666	67.3		2.8

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	9390		2000

Matrix : SEDIMENT

Client Description	SC-EE08-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		810
1,2,4-Trichlorobenzene	120821	ND		810
1,2-Dichlorobenzene	95501	ND		810
1,3-Dichlorobenzene	541731	ND		810
1,4-Dichlorobenzene	106467	ND		810
1-(2,3,5,6-Tetramethylpyridyl)-^2-propanone	70660343	4400	2	2.5
1-Chloronaphthalene	90131	ND		6100
1-Naphthylamine	134327	ND		810
2,3,4,6-Tetrachlorophenol	58902	ND		3900
2,4,5-Trichlorophenol	95954	ND		3900
2,4,6-Trichlorophenol	88062	ND		810
2,4-Dichlorophenol	120832	ND		810
2,4-Dimethylphenol	105679	ND		810
2,4-Dinitrophenol	51285	ND		3900
2,4-Dinitrotoluene	121142	ND		810
2,6-Dichlorophenol	87650	ND		810
2,6-Dinitrotoluene	606202	ND		810
2-Chloronaphthalene	91587	ND		810
2-Chlorophenol	95578	ND		810
2-Methylnaphthalene	91576	ND		810
2-Methylphenol	95487	ND		810
2-Naphthylamine	91598	ND		810
2-Nitrophenol	88755	ND		810
2-Picoline	109068	ND		810
3,3'-Dichlorobenzidine	91941	ND		1600
3-Methylcholanthrene	56495	ND		810
3-Nitroaniline	99092	ND		3900
3/4-Methylphenol	7820600	120	J	810
4,6-Dinitro-^2-methylphenol	534521	ND		3900
4-Aminobiphenyl	92671	ND		810
4-Bromophenyl^phenyl ether	101553	ND		810
4-Chloro-3-methylphenol	59507	ND		810
4-Chloroaniline	106478	ND		810
4-Chlorophenyl ^phenyl ether	7005723	ND		810
4-Nitroaniline	100016	ND		3900
4-Nitrophenol	100027	ND		3900
7,12-Dimethylbenz(a)-^anthracene	57976	ND		810
Acenaphthene	83329	ND		810
Acenaphthylene	208968	ND		810
Acetamide, N-(2,6-dimethylphenyl)-	2198530	4400	2	2.5
Acetophenone	98862	ND		810
Adenine	73245	3200	2	2.5
Aniline	62533	ND		810
Anthracene	120127	ND		810
Anthracene, 9-dodecyltetradecahydro-	55401757	1000	1	1.2
Azobenzene	103333	ND		6100
Benzidine	92875	ND		6100
Benzo(a)anthracene	56553	210	J	810
Benzo(a)pyrene	50328	180	J	810
Benzo(b)fluoranthene	205992	330	J	810
Benzo(g,h,i)perylene	191242	92	J	810
Benzo(k)fluoranthene	207089	ND		810
Benzoic acid	65850	ND		6100
Benzyl alcohol	100516	ND		810
Butyl benzyl phthalate	85687	ND		810
Cholesterol	57885	1100	1	1.2
Chromone, 3,5-dibromo-6-hydroxy-2-^methyl-	30095773	470	2	2.5
Chrysene	218019	260	J	810
Di-n-butyl phthalate	84742	ND		810
Di-n-octyl phthalate	117840	ND		810
Dibenz(a,h)anthracene	53703	ND		810

Matrix : SEDIMENT

Client Description	SC-EE08-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		810
Diethyl phthalate	84662	ND		810
Dimethyl phthalate	131113	ND		810
Diphenylamine	122394	ND		810
Ethyl methanesulfonate	62500	ND		810
Fluoranthene	206440	820		810
Fluorene	86737	ND		810
Heptanoic acid, anhydride	626277	580	2	2.5
Hexachlorobenzene	118741	ND		810
Hexachlorobutadiene	87683	ND		810
Hexachlorocyclopentadiene	77474	ND		810
Hexachloroethane	67721	ND		810
Indeno(1,2,3-cd)pyrene	193395	90	J	810
Isophorone	78591	ND		810
Methyl methanesulfonate	66273	ND		810
N-Nitroso-di-^n-propylamine	621647	ND		810
N-Nitroso-di-n-butylamine	924163	ND		810
N-Nitrosodiphenylamine	86306	ND		810
N-Nitrosopiperidine	100754	ND		810
Naphthalene	91203	ND		810
Nitrobenzene	98953	ND		810
Pentachlorobenzene	608935	ND		810
Pentachloronitrobenzene	82688	ND		3900
Pentachlorophenol	87865	ND		3900
Phenacetin	62442	ND		810
Phenanthrene	85018	280	J	810
Phenol	108952	83	J	810
Phenol, 2-(1,1-dimethylethyl)-4-^methyl-	2409554	2200	2	2.5
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	140669	2800	2	2.5
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	54932784	580	2	2.5
Phenol, 4-nonyl-	104405	3700	2	2.5
Phenol, nonyl-	25154523	1900	2	2.5
Phenol, nonyl-	25154523	4400	2	2.5
Phenol, nonyl-	25154523	4700	2	2.5
Phosphine sulfide, triphenyl-	3878453	820	2	2.5
Pronamide	23950585	ND		810
Pyrene	129000	440	J	810
Saturated Hydrocarbon: >C20	7319043800	1200		
Saturated Hydrocarbon: >C20	7319043800	560		
Saturated Hydrocarbon: >C20	7319043800	630		
Saturated Hydrocarbon: >C20	7319043800	840		
Saturated Hydrocarbon: C10-C20	731904300	500		
Saturated Hydrocarbon: C10-C20	731904300	620		
Saturated Hydrocarbon: C10-C20	731904300	780		
Saturated Hydrocarbon: C10-C20	731904300	930		
Saturated Hydrocarbon: C10-C20	731904300	990		
Tricyclo[4.3.0.07,9]nonane, 2,2,^5,5,8,8-hexamet!	54832825	650	1z	1.2
a,a-Dimethylphenethyl-^amine	122098	ND		810
bis(2-Chloroethoxy)^methane	111911	ND		810
bis(2-Chloroethyl) ether	111444	ND		810
bis(2-Chloroisopropyl)^ether	108601	ND		810
bis(2-Ethylhexyl)^phthalate	117817	580	J	810
p-Dimethylaminoazobenzene	60117	ND		810

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.1
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1

Matrix : SEDIMENT

Client Description	SC-EE08-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		6.1
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	10	J	12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		25
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	1.6	JB	6.1
Naphthalene, decahydro-2,6-dimethyl-	1618220	11	1	1.2
Styrene	100425	ND		6.1
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.1
Toluene	108883	1.3	J	6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		20
4,4'-DDD	72548	ND		4.1
4,4'-DDE	72559	ND		20
4,4'-DDE	72559	ND		4.1
4,4'-DDT	50293	ND		20
4,4'-DDT	50293	ND		4.1
Aldrin	309002	34		10
Aldrin	309002	7.4		2.1
Aroclor 1016	12674112	ND		200

Matrix : SEDIMENT

Client Description	SC-EE08-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1016	12674112	ND		41
Aroclor 1221	11104282	ND		200
Aroclor 1221	11104282	ND		41
Aroclor 1232	11141165	ND		200
Aroclor 1232	11141165	ND		41
Aroclor 1242	53469219	ND		200
Aroclor 1242	53469219	ND		41
Aroclor 1248	12672296	ND		200
Aroclor 1248	12672296	ND		41
Aroclor 1254	11097691	140	JM	200
Aroclor 1254	11097691	220		41
Aroclor 1260	11096825	ND		200
Aroclor 1260	11096825	ND		41
Dieldrin	60571	ND		20
Dieldrin	60571	ND		4.1
Endosulfan I	959988	ND		10
Endosulfan I	959988	ND		2.1
Endosulfan II	33213659	ND		20
Endosulfan II	33213659	ND		4.1
Endosulfan sulfate	1031078	ND		20
Endosulfan sulfate	1031078	ND		4.1
Endrin	72208	ND		20
Endrin	72208	ND		4.1
Endrin aldehyde	7421934	ND		20
Endrin aldehyde	7421934	ND		4.1
Heptachlor	76448	48		2.1
Heptachlor	76448	52		10
Heptachlor epoxide	1024573	ND		10
Heptachlor epoxide	1024573	ND		2.1
Methoxychlor	72435	ND		100
Methoxychlor	72435	ND		21
Toxaphene	8001352	ND		1000
Toxaphene	8001352	ND		210
alpha-BHC	319846	ND		10
alpha-BHC	319846	ND		2.1
alpha-Chlordane	5103719	ND		10
alpha-Chlordane	5103719	ND		2.1
beta-BHC	319857	ND		10
beta-BHC	319857	ND		2.1
delta-BHC	319868	ND		10
delta-BHC	319868	ND		2.1
gamma-BHC (Lindane)	58899	ND		10
gamma-BHC (Lindane)	58899	ND		2.1
gamma-Chlordane	5103742	ND		10
gamma-Chlordane	5103742	ND		2.1

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.2

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Matrix : SEDIMENT

Client Description	SC-EE08-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.6		0.61

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	2430		12.3
Antimony	7440360	ND		7.4
Barium	7440393	139		1.2
Beryllium	7440417	0.22	J	0.25
Cadmium	7440439	22.8		0.61
Calcium	7440702	18400		24.6
Chromium	7440473	181		1.2
Cobalt	7440484	4.1		1.2
Copper	7440508	13.8		2.5
Iron	7439896	6050		12.3
Lead	7439921	22.0		6.1
Magnesium	7439954	3980		24.6
Manganese	7439965	362		1.2
Molybdenum	7439987	ND		2.5
Nickel	7440020	39.9		4.9
Potassium	7440097	293	J	614
Silver	7440224	1.4		1.2
Sodium	7440235	ND		614
Vanadium	7440622	12.2		1.2
Zinc	7440666	38.6		2.5

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	5560		2000

Matrix : SEDIMENT

Client Description	SC-EE09-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		400
1,2,4-Trichlorobenzene	120821	ND		400
1,2-Dichlorobenzene	95501	ND		400
1,3-Dichlorobenzene	541731	ND		400
1,4-Dichlorobenzene	106467	ND		400
1-Chloronaphthalene	90131	ND		3100
1-Naphthylamine	134327	ND		400
2,3,4,6-Tetrachlorophenol	58902	ND		2000
2,4,5-Trichlorophenol	95954	ND		2000
2,4,6-Trichlorophenol	88062	ND		400
2,4-Dichlorophenol	120832	ND		400
2,4-Dimethylphenol	105679	ND		400
2,4-Dinitrophenol	51285	ND		2000
2,4-Dinitrotoluene	121142	ND		400
2,6-Dichlorophenol	87650	ND		400
2,6-Dinitrotoluene	606202	ND		400
2-Chloronaphthalene	91587	ND		400
2-Chlorophenol	95578	ND		400
2-Methylnaphthalene	91576	ND		400
2-Methylphenol	95487	ND		400
2-Naphthylamine	91598	ND		400
2-Nitrophenol	88755	ND		400
2-Picoline	109068	ND		400
28-Nor-17.alpha.(H)-hopane	53584604	190	1	1.2
3,3'-Dichlorobenzidine	91941	ND		810
3-Methylcholanthrene	56495	ND		400
3-Nitroaniline	99092	ND		2000
3/4-Methylphenol	7820600	ND		400
4,6-Dinitro-^2-methylphenol	534521	ND		2000
4-Aminobiphenyl	92671	ND		400
4-Bromophenyl^phenyl ether	101553	ND		400
4-Chloro-3-methylphenol	59507	ND		400
4-Chloroaniline	106478	ND		400
4-Chlorophenyl ^phenyl ether	7005723	ND		400
4-Nitroaniline	100016	ND		2000
4-Nitrophenol	100027	ND		2000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		400
Acenaphthene	83329	ND		400
Acenaphthylene	208968	ND		400
Acetophenone	98862	ND		400
Aniline	62533	ND		400
Anthracene	120127	ND		400
Azobenzene	103333	ND		3100
Benzaldehyde, O-methyloxime	3376327	710	1	1.2
Benzidine	92875	ND		3100
Benzo(a)anthracene	56553	45	J	400
Benzo(a)pyrene	50328	ND		400
Benzo(b)fluoranthene	205992	60	J	400
Benzo(g,h,i)perylene	191242	ND		400
Benzo(k)fluoranthene	207089	ND		400
Benzoic acid	65850	ND		3100
Benzyl alcohol	100516	ND		400
Butyl benzyl phthalate	85687	ND		400
Chrysene	218019	51	J	400
Di-n-butyl phthalate	84742	ND		400
Di-n-octyl phthalate	117840	ND		400
Dibenz(a,h)anthracene	53703	ND		400
Dibenz(a,j)acridine	224420	ND		–
Dibenzofuran	132649	ND		400
Diethyl phthalate	84662	ND		400
Diethylphosphinothioic azide	58347141	460	1	1.2

Matrix : SEDIMENT

Client Description	SC-EE09-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		400
Diphenylamine	122394	ND		400
Ethanamine, 1-(2,4-cyclopentadien-^1-ylidene)-N,N!	14469773	690	1z	1.2
Ethanethioic acid, S,S'-[thiobis^(methylene)] est!	2242708	510	2z	2.4
Ethanoic acid, S-methyl ester	1534083	1400	2	2.4
Ethanoic acid, S-methyl ester	1534083	180	2	2.4
Ethyl methanesulfonate	62500	ND		400
Fluoranthene	206440	140	J	400
Fluorene	86737	ND		400
Hexachlorobenzene	118741	ND		400
Hexachlorobutadiene	87683	ND		400
Hexachlorocyclopentadiene	77474	ND		400
Hexachloroethane	67721	ND		400
Hexathiepane	17233715	360	2	2.4
Indeno(1,2,3-cd)pyrene	193395	ND		400
Isophorone	78591	ND		400
Methyl methanesulfonate	66273	ND		400
N-Nitroso-di-^n-propylamine	621647	ND		400
N-Nitroso-di-n-butylamine	924163	ND		400
N-Nitrosodiphenylamine	86306	ND		400
N-Nitrosopiperidine	100754	ND		400
Naphthalene	91203	ND		400
Nitrobenzene	98953	ND		400
Oxygenated Hydrocarbon	5886108200	680		
Pentachlorobenzene	608935	ND		400
Pentachloronitrobenzene	82688	ND		2000
Pentachlorophenol	87865	ND		2000
Phenacetin	62442	ND		400
Phenanthrene	85018	71	J	400
Phenol	108952	ND		400
Phenol, 2-(1,1-dimethylethyl)-5-^methyl-	88608	830	1	1.2
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	54932784	570	2	2.4
Phenol, nonyl-	25154523	1200	2	2.4
Phenol, nonyl-	25154523	510	2	2.4
Phenol, nonyl-	25154523	550	2	2.4
Phenol, nonyl-	25154523	750	1	1.2
Phenol, nonyl-	25154523	900	2	2.4
Phosphine sulfide, triphenyl-	3878453	200	2	2.4
Pronamide	23950585	ND		400
Propane, 2-bromo-	75263	650	1	1.2
Pyrene	129000	100	J	400
Saturated Hydrocarbon: C10-C20	731904300	170		
Saturated Hydrocarbon: C10-C20	731904300	180		
Saturated Hydrocarbon: C10-C20	731904300	220		
Saturated Hydrocarbon: C10-C20	731904300	230		
Saturated Hydrocarbon: C10-C20	731904300	240		
Thiazole, 4,5-dihydro-2-methyl-	2346001	650	2	2.4
a,a-Dimethylphenethyl-^amine	122098	ND		400
bis(2-Chloroethoxy)^methane	111911	ND		400
bis(2-Chloroethyl) ether	111444	ND		400
bis(2-Chloroisopropyl)^ether	108601	ND		400
bis(2-Ethylhexyl)^phthalate	117817	140	J	400
p-Dimethylaminoazobenzene	60117	ND		400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.1
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1
1,2-Dichloropropane	78875	ND		6.1

Matrix : SEDIMENT

Client Description	SC-EE09-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Cyclic Hydrocarbon	76904300	7.6		
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	ND		6.1
Styrene	100425	ND		6.1
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.1
Toluene	108883	2.3	J	6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		4.0
4,4'-DDE	72559	ND		4.0
4,4'-DDT	50293	ND		4.0
Aldrin	309002	ND		2.1
Aroclor 1016	12674112	ND		40
Aroclor 1221	11104282	ND		40
Aroclor 1232	11141165	ND		40
Aroclor 1242	53469219	ND		40
Aroclor 1248	12672296	ND		40
Aroclor 1254	11097691	34	JM	40

Matrix : SEDIMENT

Client Description	SC-EE09-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	35	J	40
Aroclor 1260	11096825	ND		40
Dieldrin	60571	ND		4.0
Endosulfan I	959988	ND		2.1
Endosulfan II	33213659	ND		4.0
Endosulfan sulfate	1031078	ND		4.0
Endrin	72208	ND		4.0
Endrin aldehyde	7421934	ND		4.0
Heptachlor	76448	3.4		2.1
Heptachlor	76448	4.1		2.1
Heptachlor epoxide	1024573	ND		2.1
Methoxychlor	72435	ND		21
Toxaphene	8001352	ND		210
alpha-BHC	319846	ND		2.1
alpha-Chlordane	5103719	ND		2.1
beta-BHC	319857	ND		2.1
delta-BHC	319868	ND		2.1
gamma-BHC (Lindane)	58899	ND		2.1
gamma-Chlordane	5103742	ND		2.1

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.61

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.61

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.53	J	0.61

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1750		12.2
Antimony	7440360	ND		7.3
Barium	7440393	1910		1.2
Beryllium	7440417	0.22	J	0.24
Cadmium	7440439	27.8		0.61
Calcium	7440702	52200		24.5
Chromium	7440473	291		1.2
Cobalt	7440484	5.0		1.2
Copper	7440508	33.7		2.4
Iron	7439896	11800		12.2
Lead	7439921	78.0		6.1
Magnesium	7439954	16400		24.5
Manganese	7439965	1190		1.2
Molybdenum	7439987	ND		2.4
Nickel	7440020	131		4.9
Potassium	7440097	209	J	612

Matrix : SEDIMENT

Client Description	SC-EE09-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	7.1		1.2
Sodium	7440235	ND		612
Vanadium	7440622	13.2		1.2
Zinc	7440666	66.0		2.4

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	3430		2000

Matrix : SEDIMENT

Client Description	SC-EE10-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.60

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(E)-1-tert-Butyl-2-(3,3-dimethyl-^2-butylidene)c!	85851441	240	1z	1.2
1,2,4,5-Tetrachloro-^benzene	95943	ND		390
1,2,4-Trichlorobenzene	120821	ND		390
1,2-Benzenedicarboxylic acid,^ dipropyl ester	131168	390	2	2.4
1,2-Dichlorobenzene	95501	ND		390
1,3-Dichlorobenzene	541731	ND		390
1,4-Dichlorobenzene	106467	ND		390
1-Chloronaphthalene	90131	ND		3000
1-Naphthylamine	134327	ND		390
2,3,4,6-Tetrachlorophenol	58902	ND		1900
2,4,5-Trichlorophenol	95954	ND		1900
2,4,6-Trichlorophenol	88062	ND		390
2,4-Dichlorophenol	120832	ND		390
2,4-Dimethylphenol	105679	ND		390
2,4-Dinitrophenol	51285	ND		1900
2,4-Dinitrotoluene	121142	ND		390
2,6-Dichlorophenol	87650	ND		390
2,6-Dinitrotoluene	606202	ND		390
2-Chloronaphthalene	91587	ND		390
2-Chlorophenol	95578	ND		390
2-Methylnaphthalene	91576	ND		390
2-Methylphenol	95487	ND		390
2-Naphthylamine	91598	ND		390
2-Nitrophenol	88755	ND		390
2-Picoline	109068	ND		390
3,3'-Dichlorobenzidine	91941	ND		790
3-Methylcholanthrene	56495	ND		390
3-Nitroaniline	99092	ND		1900
3/4-Methylphenol	7820600	ND		390
4,6-Dinitro-^2-methylphenol	534521	ND		1900
4-Aminobiphenyl	92671	ND		390
4-Bromophenyl^phenyl ether	101553	ND		390
4-Chloro-3-methylphenol	59507	ND		390
4-Chloroaniline	106478	ND		390
4-Chlorophenyl ^phenyl ether	7005723	ND		390
4-Nitroaniline	100016	ND		1900
4-Nitrophenol	100027	ND		1900
7,12-Dimethylbenz(a)-^anthracene	57976	ND		390
Acenaphthene	83329	ND		390
Acenaphthylene	208968	ND		390
Acetophenone	98862	ND		390
Aniline	62533	ND		390
Anthracene	120127	ND		390
Azobenzene	103333	ND		3000
Benzaldehyde, 4-methyl-, oxime	3235027	490	2	2.4
Benzidine	92875	ND		3000
Benzo(a)anthracene	56553	ND		390
Benzo(a)pyrene	50328	ND		390
Benzo(b)fluoranthene	205992	ND		390
Benzo(g,h,i)perylene	191242	ND		390
Benzo(k)fluoranthene	207089	43	J	390
Benzoic acid	65850	ND		3000
Benzyl alcohol	100516	ND		390
Butyl benzyl phthalate	85687	ND		390
Chrysene	218019	ND		390
Cyclohexane, 3,4-bis(1-methylethenyl)-^1,1-dimeth!	61142743	340	1z	1.2
Di-n-butyl phthalate	84742	ND		390
Di-n-octyl phthalate	117840	ND		390
Dibenz(a,h)anthracene	53703	ND		390
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		390

Matrix : SEDIMENT

Client Description	SC-EE10-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diethyl phthalate	84662	ND		390
Dimethyl phthalate	131113	ND		390
Diphenylamine	122394	ND		390
Ethyl methanesulfonate	62500	ND		390
Fluoranthene	206440	180	J	390
Fluorene	86737	ND		390
Hexachlorobenzene	118741	ND		390
Hexachlorobutadiene	87683	ND		390
Hexachlorocyclopentadiene	77474	ND		390
Hexachloroethane	67721	ND		390
Indeno(1,2,3-cd)pyrene	193395	ND		390
Isophorone	78591	ND		390
Methyl methanesulfonate	66273	ND		390
N-Nitroso-di-^n-propylamine	621647	ND		390
N-Nitroso-di-n-butylamine	924163	ND		390
N-Nitrosodiphenylamine	86306	ND		390
N-Nitrosopiperidine	100754	ND		390
Naphthalene	91203	ND		390
Nitrobenzene	98953	ND		390
Pentachlorobenzene	608935	ND		390
Pentachloronitrobenzene	82688	ND		1900
Pentachlorophenol	87865	ND		1900
Phenacetin	62442	ND		390
Phenanthrene	85018	ND		390
Phenol	108952	ND		390
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	140669	390	2	2.4
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	54932784	400	2	2.4
Phenol, 4-nonyl-	104405	160	2	2.4
Phenol, nonyl-	25154523	420	2	2.4
Phenol, nonyl-	25154523	500	2	2.4
Phenol, nonyl-	25154523	530	2	2.4
Phenol, nonyl-	25154523	600	2	2.4
Phenol, nonyl-	25154523	610	2	2.4
Pronamide	23950585	ND		390
Pyrene	129000	62	J	390
Saturated Hydrocarbon: >C20	7319043800	250		
Saturated Hydrocarbon: C10-C20	731904300	160		
Saturated Hydrocarbon: C10-C20	731904300	250		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		390
bis(2-Chloroethoxy)^methane	111911	ND		390
bis(2-Chloroethyl) ether	111444	ND		390
bis(2-Chloroisopropyl)^ether	108601	ND		390
bis(2-Ethylhexyl)^phthalate	117817	370	J	390
p-Dimethylaminoazobenzene	60117	ND		390

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.0
1,1,1-Trichloroethane	71556	ND		6.0
1,1,2,2-Tetrachloroethane	79345	ND		6.0
1,1,2-Trichloroethane	79005	ND		6.0
1,1-Dichloroethane	75343	ND		6.0
1,1-Dichloroethene	75354	ND		6.0
1,2,3-Trichloropropane	96184	ND		6.0
1,2-Dichloroethane	107062	ND		6.0

Matrix : SEDIMENT

Client Description	SC-EE10-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		6.0
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		12
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	ND		12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.0
Bromodichloromethane	75274	ND		6.0
Bromoform	75252	ND		6.0
Bromomethane	74839	ND		12
Carbon disulfide	75150	1.5	J	6.0
Carbon tetrachloride	56235	ND		6.0
Chlorobenzene	108907	ND		6.0
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.0
Chloromethane	74873	ND		12
Cyclic Hydrocarbon	76904300	6.9		
Dibromochloromethane	124481	ND		6.0
Dibromomethane	74953	ND		6.0
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.0
Iodomethane	74884	ND		6.0
Methylene chloride	75092	ND		6.0
Styrene	100425	ND		6.0
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.0
Toluene	108883	ND		6.0
Trichloroethene	79016	ND		6.0
Trichlorofluoromethane	75694	ND		6.0
Unknown	57200	7.0		
Unsaturated Hydrocarbon	4628492500	6.1		
Unsaturated Hydrocarbon	4628492500	9.1		
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.0
cis-1,3-Dichloropropene	10061015	ND		6.0
trans-1,2-Dichloroethene	156605	ND		6.0
trans-1,3-Dichloropropene	10061026	ND		6.0
trans-1,4-Dichloro-2-butene	110576	ND		6.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		7.9
4,4'-DDE	72559	ND		7.9
4,4'-DDT	50293	ND		7.9
Aldrin	309002	ND		4.1
Aroclor 1016	12674112	ND		79
Aroclor 1221	11104282	ND		79
Aroclor 1232	11141165	ND		79
Aroclor 1242	53469219	ND		79
Aroclor 1248	12672296	ND		79

Matrix : SEDIMENT

Client Description	SC-EE10-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	120		79
Aroclor 1254	11097691	180		79
Aroclor 1260	11096825	ND		79
Dieldrin	60571	ND		7.9
Endosulfan I	959988	ND		4.1
Endosulfan II	33213659	ND		7.9
Endosulfan sulfate	1031078	ND		7.9
Endrin	72208	ND		7.9
Endrin aldehyde	7421934	ND		7.9
Heptachlor	76448	17		4.1
Heptachlor	76448	19		4.1
Heptachlor epoxide	1024573	ND		4.1
Methoxychlor	72435	ND		41
Toxaphene	8001352	ND		410
alpha-BHC	319846	ND		4.1
alpha-Chlordane	5103719	ND		4.1
beta-BHC	319857	ND		4.1
delta-BHC	319868	ND		4.1
gamma-BHC (Lindane)	58899	ND		4.1
gamma-Chlordane	5103742	ND		4.1

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		1.2

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.13	J	0.60

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	2.2		0.60

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	4170		11.9
Antimony	7440360	ND		7.2
Barium	7440393	275		1.2
Beryllium	7440417	0.33		0.24
Cadmium	7440439	1.9		0.60
Calcium	7440702	15500		23.9
Chromium	7440473	18.7		1.2
Cobalt	7440484	4.1		1.2
Copper	7440508	6.2		2.4
Iron	7439896	8080		11.9
Lead	7439921	10.9		6.0
Magnesium	7439954	5770		23.9
Manganese	7439965	346		1.2
Molybdenum	7439987	ND		2.4
Nickel	7440020	9.5		4.8

Matrix : SEDIMENT

Client Description	SC-EE10-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Potassium	7440097	628		596
Silver	7440224	ND		1.2
Sodium	7440235	ND		596
Vanadium	7440622	16.4		1.2
Zinc	7440666	56.3		2.4

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	2360		2000

Matrix : SEDIMENT

Client Description	SC-EW01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.63

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1'-Biphenyl, 2,3,4,4',6-pentachloro-	74472381	450	2	2.5
1,2,4,5-Tetrachloro-^benzene	95943	ND		830
1,2,4-Trichlorobenzene	120821	ND		830
1,2-Benzenedicarboxylic acid,^bis(8-methylnonyl)!	89167	2700	2z	2.5
1,2-Dichlorobenzene	95501	ND		830
1,3-Dichlorobenzene	541731	ND		830
1,4-Dichlorobenzene	106467	ND		830
1-Chloronaphthalene	90131	ND		6300
1-Hexadecene	629732	4600	1	1.3
1-Naphthylamine	134327	ND		830
2,3,4,6-Tetrachlorophenol	58902	ND		4000
2,4,5-Trichlorophenol	95954	ND		4000
2,4,6-Trichlorophenol	88062	ND		830
2,4-Dichlorophenol	120832	ND		830
2,4-Dimethylphenol	105679	ND		830
2,4-Dinitrophenol	51285	ND		4000
2,4-Dinitrotoluene	121142	ND		830
2,6-Dichlorophenol	87650	ND		830
2,6-Dinitrotoluene	606202	ND		830
2-Chloronaphthalene	91587	ND		830
2-Chlorophenol	95578	ND		830
2-Methylnaphthalene	91576	ND		830
2-Methylphenol	95487	ND		830
2-Naphthylamine	91598	ND		830
2-Nitrophenol	88755	ND		830
2-Picoline	109068	ND		830
28-Nor-17.beta.(H)-hopane	36728720	2900	1	1.3
28-Nor-17.beta.(H)-hopane	36728720	3700	2	2.5
3,3'-Dichlorobenzidine	91941	ND		1700
3,7,11,15-Tetramethyl-2-hexadecen-1-ol	102608537	1100	2	2.5
3-Methylcholanthrene	56495	ND		830
3-Nitroaniline	99092	ND		4000
3/4-Methylphenol	7820600	ND		830
4,6-Dinitro-^2-methylphenol	534521	ND		4000
4-Aminobiphenyl	92671	ND		830
4-Bromophenyl^phenyl ether	101553	ND		830
4-Chloro-3-methylphenol	59507	ND		830
4-Chloroaniline	106478	ND		830
4-Chlorophenyl ^phenyl ether	7005723	ND		830
4-Nitroaniline	100016	ND		4000
4-Nitrophenol	100027	ND		4000
7,12-Dimethylbenz(a)-^anthracene	57976	ND		830
Acenaphthene	83329	ND		830
Acenaphthylene	208968	ND		830
Acetophenone	98862	ND		830
Aniline	62533	ND		830
Anthracene	120127	85	J	830
Azobenzene	103333	ND		6300
Benzidine	92875	ND		6300
Benzo(a)anthracene	56553	540	J	830
Benzo(a)pyrene	50328	620	J	830
Benzo(b)fluoranthene	205992	1300		830
Benzo(g,h,i)perylene	191242	430	J	830
Benzo(k)fluoranthene	207089	ND		830
Benzoic acid	65850	ND		6300
Benzyl alcohol	100516	ND		830
Butyl benzyl phthalate	85687	ND		830
Cholesterol	57885	5000	2	2.5
Chrysene	218019	850		830
Cyclic Hydrocarbon	76904300	1100		
Di-n-butyl phthalate	84742	240	J	830

Matrix : SEDIMENT

Client Description	SC-EW01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		830
Dibenz(a,h)anthracene	53703	92	J	830
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		830
Diethyl phthalate	84662	ND		830
Dimethyl phthalate	131113	ND		830
Diphenylamine	122394	ND		830
Ethyl methanesulfonate	62500	ND		830
Fluoranthene	206440	1300		830
Fluorene	86737	ND		830
Hexachlorobenzene	118741	ND		830
Hexachlorobutadiene	87683	ND		830
Hexachlorocyclopentadiene	77474	ND		830
Hexachloroethane	67721	ND		830
Indeno(1,2,3-cd)pyrene	193395	390	J	830
Isophorone	78591	ND		830
Methyl methanesulfonate	66273	ND		830
N-Nitroso-di-^n-propylamine	621647	ND		830
N-Nitroso-di-n-butylamine	924163	ND		830
N-Nitrosodiphenylamine	86306	ND		830
N-Nitrosopiperidine	100754	ND		830
Naphthalene	91203	ND		830
Nitrobenzene	98953	ND		830
Oxacyclohexadecan-2-one, 16-methyl-	4459578	1900	2	2.5
Oxygenated Hydrocarbon	5886108200	2400		
Oxygenated Hydrocarbon	5886108200	2700		
Oxygenated Hydrocarbon	5886108200	5700		
Oxygenated Hydrocarbon	5886108200	8700		
Pentachlorobenzene	608935	ND		830
Pentachloronitrobenzene	82688	ND		4000
Pentachlorophenol	87865	ND		4000
Phenacetin	62442	ND		830
Phenanthrene	85018	840		830
Phenol	108952	ND		830
Phthalate	32800	4400		
Polynuclear Aromatic Hydrocarbon	519171400	1500		
Pronamide	23950585	ND		830
Pyrene	129000	1300		830
Saturated Hydrocarbon: >C20	7319043800	1200		
Saturated Hydrocarbon: >C20	7319043800	1300		
Saturated Hydrocarbon: >C20	7319043800	1600		
Saturated Hydrocarbon: >C20	7319043800	1800		
Saturated Hydrocarbon: >C20	7319043800	25000		
Saturated Hydrocarbon: >C20	7319043800	2800		
Saturated Hydrocarbon: >C20	7319043800	4000		
Saturated Hydrocarbon: >C20	7319043800	4700		
Thiophene, 3-(1-methyl-1-phenylethyl)-	54889451	550	1	1.3
a,a-Dimethylphenethyl-^amine	122098	ND		830
bis(2-Chloroethoxy)^methane	111911	ND		830
bis(2-Chloroethyl) ether	111444	ND		830
bis(2-Chloroisopropyl)^ether	108601	ND		830
bis(2-Ethylhexyl)^phthalate	117817	1400		830
p-Dimethylaminoazobenzene	60117	ND		830

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.3
1,1,1-Trichloroethane	71556	ND		6.3
1,1,2,2-Tetrachloroethane	79345	ND		6.3
1,1,2-Trichloroethane	79005	ND		6.3
1,1-Dichloroethane	75343	ND		6.3
1,1-Dichloroethene	75354	ND		6.3
1,2,3-Trichloropropane	96184	ND		6.3
1,2-Dichloroethane	107062	ND		6.3
1,2-Dichloropropane	78875	ND		6.3

Matrix : SEDIMENT

Client Description	SC-EW01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1-Pentene, 4,4-dimethyl-	01188	45	1	1.3
2-Butanone (MEK)	078933	ND		13
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		13
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		13
Acetone	67641	25		13
Acrolein	107028	ND		130
Acrylonitrile	107131	ND		130
Benzene	71432	ND		6.3
Bromodichloromethane	75274	ND		6.3
Bromoform	75252	ND		6.3
Bromomethane	74839	ND		13
Carbon disulfide	75150	ND		6.3
Carbon tetrachloride	56235	ND		6.3
Chlorobenzene	108907	ND		6.3
Chloroethane	75003	ND		13
Chloroform	67663	ND		6.3
Chloromethane	74873	ND		13
Cyclohexane, (2-methylpropyl)-	1678984	66	1	1.3
Cyclohexane, pentyl-	09293	59	1	1.3
Decane	124185	190	1	1.3
Decane, 4-methyl-	09751	77	1	1.3
Dibromochloromethane	124481	ND		6.3
Dibromomethane	74953	ND		6.3
Dichlorodifluoromethane	75718	ND		25
Dodecane	12779	150	1	1.3
Dodecane	12779	220	1	1.3
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		25
Ethylbenzene	100414	ND		6.3
Iodomethane	74884	ND		6.3
Methylene chloride	75092	ND		6.3
Nonane	04462	53	1	1.3
Nonane, 2,3-dimethyl-	2884062	55	1	1.3
Octane, 3,6-dimethyl-	15869940	48	1	1.3
Saturated Hydrocarbon: C10-C20	731904300	64		
Siloxane	73400	57		
Styrene	100425	ND		6.3
Tetrachloroethene	127184	ND		6.3
Toluene	108883	1.3	J	6.3
Trichloroethene	79016	ND		6.3
Trichlorofluoromethane	75694	ND		6.3
Tridecane	15584	83	1	1.3
Undecane, 3,6-dimethyl-	15595	110	1	1.3
Unsaturated Hydrocarbon	4628492500	35		
Vinyl acetate	108054	ND		13
Vinyl chloride	75014	ND		13
Xylenes (total)	1330207	ND		6.3
cis-1,3-Dichloropropene	10061015	ND		6.3
trans-1,2-Dichloroethene	156605	ND		6.3
trans-1,3-Dichloropropene	10061026	ND		6.3
trans-1,4-Dichloro-2-butene	110576	ND		6.3

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		83
4,4'-DDE	72559	ND		83
4,4'-DDT	50293	ND		83
Aldrin	309002	ND		43
Aroclor 1016	12674112	ND		830
Aroclor 1221	11104282	ND		830
Aroclor 1232	11141165	ND		830
Aroclor 1242	53469219	ND		830
Aroclor 1248	12672296	ND		830
Aroclor 1254	11097691	4900		830

Matrix : SEDIMENT

Client Description	SC-EW01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	5100		830
Aroclor 1260	11096825	ND		830
Dieldrin	60571	ND		83
Endosulfan I	959988	ND		43
Endosulfan II	33213659	ND		83
Endosulfan sulfate	1031078	ND		83
Endrin	72208	ND		83
Endrin aldehyde	7421934	ND		83
Heptachlor	76448	ND		43
Heptachlor epoxide	1024573	ND		43
Methoxychlor	72435	ND		430
Toxaphene	8001352	ND		4300
alpha-BHC	319846	ND		43
alpha-Chlordane	5103719	ND		43
beta-BHC	319857	ND		43
delta-BHC	319868	ND		43
gamma-BHC (Lindane)	58899	ND		43
gamma-Chlordane	5103742	ND		43

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.63

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.63

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.13

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.5		0.63

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	5320		12.6
Antimony	7440360	ND		7.5
Barium	7440393	120		1.3
Beryllium	7440417	0.39		0.25
Cadmium	7440439	4.8		0.63
Calcium	7440702	5210		25.1
Chromium	7440473	54.8		1.3
Cobalt	7440484	19.3		1.3
Copper	7440508	89.5		2.5
Iron	7439896	9260		12.6
Lead	7439921	33.8		6.3
Magnesium	7439954	2470		25.1
Manganese	7439965	120		1.3
Molybdenum	7439987	6.7		2.5
Nickel	7440020	316		5.0
Potassium	7440097	809		628
Silver	7440224	18.9		1.3

Matrix : SEDIMENT

Client Description	SC-EW01-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		628
Vanadium	7440622	16.4		1.3
Zinc	7440666	252		2.5

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	56200		2000

Matrix : SEDIMENT

Client Description	SC-EW02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.61

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		400
1,2,4-Trichlorobenzene	120821	ND		400
1,2-Dichlorobenzene	95501	ND		400
1,3-Dichlorobenzene	541731	ND		400
1,4-Dichlorobenzene	106467	ND		400
1-Chloronaphthalene	90131	ND		3000
1-Naphthylamine	134327	ND		400
2,3,4,6-Tetrachlorophenol	58902	ND		1900
2,4,5-Trichlorophenol	95954	ND		1900
2,4,6-Trichlorophenol	88062	ND		400
2,4-Dichlorophenol	120832	ND		400
2,4-Dimethylphenol	105679	ND		400
2,4-Dinitrophenol	51285	ND		1900
2,4-Dinitrotoluene	121142	ND		400
2,6-Dichlorophenol	87650	ND		400
2,6-Dinitrotoluene	606202	ND		400
2-Chloronaphthalene	91587	ND		400
2-Chlorophenol	95578	ND		400
2-Methylnaphthalene	91576	ND		400
2-Methylphenol	95487	ND		400
2-Naphthylamine	91598	ND		400
2-Nitrophenol	88755	ND		400
2-Picoline	109068	ND		400
3,3'-Dichlorobenzidine	91941	ND		800
3-Methylcholanthrene	56495	ND		400
3-Nitroaniline	99092	ND		1900
3/4-Methylphenol	7820600	91	J	400
4,6-Dinitro-^2-methylphenol	534521	ND		1900
4-Aminobiphenyl	92671	ND		400
4-Bromophenyl^phenyl ether	101553	ND		400
4-Chloro-3-methylphenol	59507	ND		400
4-Chloroaniline	106478	ND		400
4-Chlorophenyl ^phenyl ether	7005723	ND		400
4-Nitroaniline	100016	ND		1900
4-Nitrophenol	100027	ND		1900
7,12-Dimethylbenz(a)-^anthracene	57976	ND		400
Acenaphthene	83329	ND		400
Acenaphthylene	208968	ND		400
Acetophenone	98862	ND		400
Aniline	62533	ND		400
Anthracene	120127	78	J	400
Azobenzene	103333	ND		3000
Benzidine	92875	ND		3000
Benzo(a)anthracene	56553	240	J	400
Benzo(a)pyrene	50328	190	J	400
Benzo(b)fluoranthene	205992	350	J	400
Benzo(g,h,i)perylene	191242	86	J	400
Benzo(k)fluoranthene	207089	ND		400
Benzoic acid	65850	ND		3000
Benzyl alcohol	100516	ND		400
Butyl benzyl phthalate	85687	ND		400
Cholesterol	57885	2300	2	2.4
Chrysene	218019	250	J	400
Cyclopentane, ethyl-	1640897	200	2	2.4
Di-n-butyl phthalate	84742	ND		400
Di-n-octyl phthalate	117840	ND		400
Dibenz(a,h)anthracene	53703	ND		400
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		400
Diethyl phthalate	84662	ND		400
Dimethyl phthalate	131113	ND		400

Matrix : SEDIMENT

Client Description	SC-EW02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diphenylamine	122394	ND		400
Ergosta-5,22-dien-3-ol,^(3.beta.,22E,24S)-	17472785	690	2	2.4
Ethyl methanesulfonate	62500	ND		400
Fluoranthene	206440	530		400
Fluorene	86737	ND		400
Hexachlorobenzene	118741	ND		400
Hexachlorobutadiene	87683	ND		400
Hexachlorocyclopentadiene	77474	ND		400
Hexachloroethane	67721	ND		400
Hexadecanoic acid	57103	270	2	2.4
Hexanal	66251	170	2	2.4
Indeno(1,2,3-cd)pyrene	193395	88	J	400
Isophorone	78591	ND		400
Methyl methanesulfonate	66273	ND		400
N-Nitroso-di-^n-propylamine	621647	ND		400
N-Nitroso-di-n-butylamine	924163	ND		400
N-Nitrosodiphenylamine	86306	ND		400
N-Nitrosopiperidine	100754	ND		400
Naphthalene	91203	ND		400
Nitrobenzene	98953	ND		400
Oleic Acid	112801	320	2	2.4
Pentachlorobenzene	608935	ND		400
Pentachloronitrobenzene	82688	ND		1900
Pentachlorophenol	87865	ND		1900
Perylene	198550	370	2	2.4
Phenacetin	62442	ND		400
Phenanthrene	85018	380	J	400
Phenol	108952	ND		400
Pronamide	23950585	ND		400
Pyrene	129000	430		400
Saturated Hydrocarbon: >C20	7319043800	190		
Saturated Hydrocarbon: >C20	7319043800	200		
Saturated Hydrocarbon: >C20	7319043800	300		
Saturated Hydrocarbon: >C20	7319043800	370		
Saturated Hydrocarbon: >C20	7319043800	380		
Saturated Hydrocarbon: >C20	7319043800	430		
Saturated Hydrocarbon: >C20	7319043800	450		
Saturated Hydrocarbon: >C20	7319043800	560		
Stannane, tributylchloro-	1461229	270	2	2.4
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		400
bis(2-Chloroethoxy)^methane	111911	ND		400
bis(2-Chloroethyl) ether	111444	ND		400
bis(2-Chloroisopropyl)^ether	108601	ND		400
bis(2-Ethylhexyl)^phthalate	117817	160	J	400
p-Dimethylaminoazobenzene	60117	ND		400

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		6.1
1,1,1-Trichloroethane	71556	ND		6.1
1,1,2,2-Tetrachloroethane	79345	ND		6.1
1,1,2-Trichloroethane	79005	ND		6.1
1,1-Dichloroethane	75343	ND		6.1
1,1-Dichloroethene	75354	ND		6.1
1,2,3-Trichloropropane	96184	ND		6.1
1,2-Dichloroethane	107062	ND		6.1
1,2-Dichloropropane	78875	ND		6.1

Matrix : SEDIMENT

Client Description	SC-EW02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,4-Cyclohexadiene, 1-methyl-4-(1-^methylethyl)-	99854	7.5	1	1.2
2-Butanone (MEK)	078933	ND		12
2-Chloroethyl vinyl ether	110758	ND		–
2-Hexanone	591786	ND		12
4,7-Methano-1H-indene, octahydro-	05691	43	2	2.4
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		12
Acetone	67641	7.0	J	12
Acrolein	107028	ND		120
Acrylonitrile	107131	ND		120
Benzene	71432	ND		6.1
Benzene, 1-methyl-3-(1-methylethyl)-	535773	84	2	2.4
Bromodichloromethane	75274	ND		6.1
Bromoform	75252	ND		6.1
Bromomethane	74839	ND		12
Carbon disulfide	75150	ND		6.1
Carbon tetrachloride	56235	ND		6.1
Chlorobenzene	108907	ND		6.1
Chloroethane	75003	ND		12
Chloroform	67663	ND		6.1
Chloromethane	74873	ND		12
Cyclohexane, 4-methyl-1-(1-methylethyl)-	500005	6.3	1	1.2
Dibromochloromethane	124481	ND		6.1
Dibromomethane	74953	ND		6.1
Dichlorodifluoromethane	75718	ND		24
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		24
Ethylbenzene	100414	ND		6.1
Iodomethane	74884	ND		6.1
Methylene chloride	75092	ND		6.1
Styrene	100425	ND		6.1
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		6.1
Toluene	108883	ND		6.1
Trichloroethene	79016	ND		6.1
Trichlorofluoromethane	75694	ND		6.1
Vinyl acetate	108054	ND		12
Vinyl chloride	75014	ND		12
Xylenes (total)	1330207	ND		6.1
cis-1,3-Dichloropropene	10061015	ND		6.1
trans-1,2-Dichloroethene	156605	ND		6.1
trans-1,3-Dichloropropene	10061026	ND		6.1
trans-1,4-Dichloro-2-butene	110576	ND		6.1

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		20
4,4'-DDE	72559	ND		20
4,4'-DDT	50293	ND		20
Aldrin	309002	ND		10
Aroclor 1016	12674112	ND		200
Aroclor 1221	11104282	ND		200
Aroclor 1232	11141165	ND		200
Aroclor 1242	53469219	ND		200
Aroclor 1248	12672296	ND		200
Aroclor 1254	11097691	460		200

Matrix : SEDIMENT

Client Description	SC-EW02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	470		200
Aroclor 1260	11096825	ND		200
Dieldrin	60571	ND		20
Endosulfan I	959988	ND		10
Endosulfan II	33213659	ND		20
Endosulfan sulfate	1031078	ND		20
Endrin	72208	ND		20
Endrin aldehyde	7421934	ND		20
Heptachlor	76448	ND		10
Heptachlor epoxide	1024573	ND		10
Methoxychlor	72435	ND		100
Toxaphene	8001352	ND		1000
alpha-BHC	319846	ND		10
alpha-Chlordane	5103719	ND		10
beta-BHC	319857	ND		10
delta-BHC	319868	ND		10
gamma-BHC (Lindane)	58899	ND		10
gamma-Chlordane	5103742	ND		10

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.61

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.61

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.12

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	1.8		0.61

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	1490		12.2
Antimony	7440360	ND		7.3
Barium	7440393	349		1.2
Beryllium	7440417	0.37		0.24
Cadmium	7440439	3.9		0.61
Calcium	7440702	43500		24.4
Chromium	7440473	45.7		1.2
Cobalt	7440484	3.6		1.2
Copper	7440508	5.6		2.4
Iron	7439896	5530		12.2
Lead	7439921	21.9		6.1
Magnesium	7439954	3400		24.4
Manganese	7439965	423		1.2
Molybdenum	7439987	2.0	J	2.4
Nickel	7440020	30.0		4.9
Potassium	7440097	410	J	609
Silver	7440224	1.2		1.2

Matrix : SEDIMENT

Client Description	SC-EW02-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Sodium	7440235	ND		609
Vanadium	7440622	12.6		1.2
Zinc	7440666	47.0		2.4

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	2220		2000

Matrix : SEDIMENT

Client Description	SC-EW03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.57

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		380
1,2,4-Trichlorobenzene	120821	ND		380
1,2-Dichlorobenzene	95501	ND		380
1,3-Dichlorobenzene	541731	ND		380
1,4-Dichlorobenzene	106467	ND		380
1-Chloronaphthalene	90131	ND		2900
1-Naphthylamine	134327	ND		380
11H-Benzo[b]fluorene	243174	300	2	2.3
2,3,4,6-Tetrachlorophenol	58902	ND		1800
2,4,5-Trichlorophenol	95954	ND		1800
2,4,6-Trichlorophenol	88062	ND		380
2,4-Dichlorophenol	120832	ND		380
2,4-Dimethylphenol	105679	ND		380
2,4-Dinitrophenol	51285	ND		1800
2,4-Dinitrotoluene	121142	ND		380
2,6-Dichlorophenol	87650	ND		380
2,6-Dinitrotoluene	606202	ND		380
2,8-Dimethyldibenzo(B,D)thiophene	1207154	330	2	2.3
2-Chloronaphthalene	91587	ND		380
2-Chlorophenol	95578	ND		380
2-Methylnaphthalene	91576	ND		380
2-Methylphenol	95487	ND		380
2-Naphthylamine	91598	ND		380
2-Nitrophenol	88755	ND		380
2-Picoline	109068	ND		380
3,3'-Dichlorobenzidine	91941	ND		750
3-Methylcholanthrene	56495	ND		380
3-Nitroaniline	99092	ND		1800
3/4-Methylphenol	7820600	110	J	380
4,6-Dinitro-^2-methylphenol	534521	ND		1800
4-Aminobiphenyl	92671	ND		380
4-Bromophenyl^phenyl ether	101553	ND		380
4-Chloro-3-methylphenol	59507	ND		380
4-Chloroaniline	106478	ND		380
4-Chlorophenyl ^phenyl ether	7005723	ND		380
4-Nitroaniline	100016	ND		1800
4-Nitrophenol	100027	ND		1800
7,12-Dimethylbenz(a)-^anthracene	57976	ND		380
9,10-Dimethylanthracene	781431	320	2	2.3
9,10-Dimethylanthracene	781431	350	2	2.3
9H-Xanthen-9-one, 4-methoxy-	6702585	240	1	1.1
Acenaphthene	83329	ND		380
Acenaphthylene	208968	ND		380
Acetophenone	98862	ND		380
Aniline	62533	ND		380
Anthracene	120127	ND		380
Anthracene, 1-methyl-	610480	370	2	2.3
Anthracene, 2-methyl-	613127	500	2	2.3
Anthracene, 9-methyl-	779022	430	2	2.3
Azobenzene	103333	ND		2900
Benzene, 1,1'-[(methylthio)^ethenylidene]	15096103	300	1	1.1
Benzidine	92875	ND		2900
Benzo(a)anthracene	56553	93	J	380
Benzo(a)pyrene	50328	100	J	380
Benzo(b)fluoranthene	205992	150	J	380
Benzo(g,h,i)perylene	191242	43	J	380
Benzo(k)fluoranthene	207089	ND		380
Benzo[b]naptho[2,1-d]thiophene	239350	460	2	2.3
Benzoic acid	65850	ND		2900
Benzyl alcohol	100516	ND		380
Butyl benzyl phthalate	85687	ND		380

Matrix : SEDIMENT

Client Description	SC-EW03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	300	J	380
Di-n-butyl phthalate	84742	ND		380
Di-n-octyl phthalate	117840	ND		380
Dibenz(a,h)anthracene	53703	ND		380
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		380
Dibenzothiophene, 3-methyl-	16587523	290	2	2.3
Diethyl phthalate	84662	ND		380
Dimethyl phthalate	131113	ND		380
Diphenylamine	122394	ND		380
Ethyl methanesulfonate	62500	ND		380
Fluoranthene	206440	290	J	380
Fluorene	86737	ND		380
Hexachlorobenzene	118741	ND		380
Hexachlorobutadiene	87683	ND		380
Hexachlorocyclopentadiene	77474	ND		380
Hexachloroethane	67721	ND		380
Indeno(1,2,3-cd)pyrene	193395	ND		380
Isophorone	78591	ND		380
Methyl methanesulfonate	66273	ND		380
N-Nitroso-di-^n-propylamine	621647	ND		380
N-Nitroso-di-n-butylamine	924163	ND		380
N-Nitrosodiphenylamine	86306	ND		380
N-Nitrosopiperidine	100754	ND		380
Naphthalene	91203	ND		380
Naphtho[2,3-b]thiophene, 4,9-dimethyl-	16587341	190	2	2.3
Nitrobenzene	98953	ND		380
Pentachlorobenzene	608935	ND		380
Pentachloronitrobenzene	82688	ND		1800
Pentachlorophenol	87865	ND		1800
Perylene	198550	260	2	2.3
Phenacetin	62442	ND		380
Phenanthrene	85018	470		380
Phenanthrene, 2,3,5-trimethyl-	3674735	230	1	1.1
Phenanthrene, 2,3,5-trimethyl-	3674735	320	2	2.3
Phenanthrene, 2,3,5-trimethyl-	3674735	460	2	2.3
Phenanthrene, 2,5-dimethyl-	3674666	550	2	2.3
Phenanthrene, 3,6-dimethyl-	1576676	350	2	2.3
Phenanthrene, 3-methyl-	832713	250	2	2.3
Phenanthrene, 9,10-dimethyl-	604831	300	2	2.3
Phenindione	83125	250	1	1.1
Phenol	108952	ND		380
Polynuclear Aromatic Hydrocarbon	519171400	230		
Polynuclear Aromatic Hydrocarbon	519171400	310		
Pronamide	23950585	ND		380
Pyrene	129000	390		380
Pyrene, 2-methyl-	3442782	510	2	2.3
Saturated Hydrocarbon: >C20	7319043800	240		
a,a-Dimethylphenethyl-^amine	122098	ND		380
bis(2-Chloroethoxy)^methane	111911	ND		380
bis(2-Chloroethyl) ether	111444	ND		380
bis(2-Chloroisopropyl)^ether	108601	ND		380
bis(2-Ethylhexyl)^phthalate	117817	310	J	380
p-Dimethylaminoazobenzene	60117	ND		380

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.7
1,1,1-Trichloroethane	71556	ND		5.7
1,1,2,2-Tetrachloroethane	79345	ND		5.7
1,1,2-Trichloroethane	79005	ND		5.7
1,1-Dichloroethane	75343	ND		5.7
1,1-Dichloroethene	75354	ND		5.7
1,2,3-Trichloropropane	96184	ND		5.7
1,2-Dichloroethane	107062	ND		5.7

Matrix : SEDIMENT

Client Description	SC-EW03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8240 **Units : ug/kg** **Data Collected : 06/13/95**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.7
2-Butanone (MEK)	078933	ND		11
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		11
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		11
Acetone	67641	ND		11
Acrolein	107028	ND		110
Acrylonitrile	107131	ND		110
Benzene	71432	ND		5.7
Bromodichloromethane	75274	ND		5.7
Bromoform	75252	ND		5.7
Bromomethane	74839	ND		11
Carbon disulfide	75150	ND		5.7
Carbon tetrachloride	56235	ND		5.7
Chlorobenzene	108907	ND		5.7
Chloroethane	75003	ND		11
Chloroform	67663	ND		5.7
Chloromethane	74873	ND		11
Dibromochloromethane	124481	ND		5.7
Dibromomethane	74953	ND		5.7
Dichlorodifluoromethane	75718	ND		23
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		23
Ethylbenzene	100414	ND		5.7
Iodomethane	74884	ND		5.7
Methylene chloride	75092	ND		5.7
None Detected	320100	ND		
Styrene	100425	ND		5.7
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.7
Toluene	108883	ND		5.7
Trichloroethene	79016	ND		5.7
Trichlorofluoromethane	75694	ND		5.7
Vinyl acetate	108054	ND		11
Vinyl chloride	75014	ND		11
Xylenes (total)	1330207	ND		5.7
cis-1,3-Dichloropropene	10061015	ND		5.7
trans-1,2-Dichloroethene	156605	ND		5.7
trans-1,3-Dichloropropene	10061026	ND		5.7
trans-1,4-Dichloro-2-butene	110576	ND		5.7

Analytical Test Method : 8080 **Units : ug/kg** **Data Collected : 06/13/95**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		19
4,4'-DDE	72559	ND		19
4,4'-DDT	50293	ND		19
Aldrin	309002	ND		9.7
Aroclor 1016	12674112	ND		190
Aroclor 1221	11104282	ND		190
Aroclor 1232	11141165	ND		190
Aroclor 1242	53469219	ND		190
Aroclor 1248	12672296	ND		190

Matrix : SEDIMENT

Client Description	SC-EW03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	460		190
Aroclor 1254	11097691	470		190
Aroclor 1260	11096825	ND		190
Dieldrin	60571	ND		19
Endosulfan I	959988	ND		9.7
Endosulfan II	33213659	ND		19
Endosulfan sulfate	1031078	ND		19
Endrin	72208	ND		19
Endrin aldehyde	7421934	ND		19
Heptachlor	76448	ND		9.7
Heptachlor epoxide	1024573	ND		9.7
Methoxychlor	72435	ND		97
Toxaphene	8001352	ND		970
alpha-BHC	319846	ND		9.7
alpha-Chlordane	5103719	ND		9.7
beta-BHC	319857	ND		9.7
delta-BHC	319868	ND		9.7
gamma-BHC (Lindane)	58899	ND		9.7
gamma-Chlordane	5103742	ND		9.7

Analytical Test Method : 7841 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.57

Analytical Test Method : 7740 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		1.1

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.11

Analytical Test Method : 7060 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	5.8		0.57

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	3390		11.4
Antimony	7440360	ND		6.9
Barium	7440393	1330		1.1
Beryllium	7440417	0.58		0.23
Cadmium	7440439	2.1		0.57
Calcium	7440702	79700		22.9
Chromium	7440473	29.2		1.1
Cobalt	7440484	6.9		1.1
Copper	7440508	8.9		2.3
Iron	7439896	15400		11.4
Lead	7439921	17.6		5.7
Magnesium	7439954	8050		22.9
Manganese	7439965	756		1.1
Molybdenum	7439987	ND		2.3
Nickel	7440020	23.4		4.6
Potassium	7440097	525	J	571

Matrix : SEDIMENT

Client Description	SC-EW03-SD-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.50)

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Silver	7440224	1.2		1.1
Sodium	7440235	ND		571
Vanadium	7440622	26.8		1.1
Zinc	7440666	23.4		2.3

Analytical Test Method : 415.1 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Total Organic^Carbon	1012	2900		2000

Section B

Second Ecological Assessment
Surface Water Data

Matrix : SURF-H2O

Client Description	CR-EC01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10

Matrix : SURF-H2O

Client Description	CR-EC01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	CR-EC01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	6.3	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	CR-EC01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.020

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0018	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	ND		0.00030
Copper	7440508	0.0034		0.0020
Lead	7439921	0.00085	JB	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.81		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.67		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	74.7		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	CR-EC01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.66		0.10
Magnesium	7439954	38.8		0.20
Manganese	7439965	0.15		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	3.2	J	5.0
Sodium	7440235	103		5.0
Vanadium	7440622	0.0048	J	0.010
Zinc	7440666	0.0042	J	0.020

Matrix : SURF-H2O

Client Description	CR-EC02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10

Matrix : SURF-H2O

Client Description	CR-EC02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	CR-EC02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		–
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	1.2	JB	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	CR-EC02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.010

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0025	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	ND		0.00030
Copper	7440508	0.0046		0.0020
Lead	7439921	0.0011		0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.25		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.58		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	63.9		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	CR-EC02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.31		0.10
Magnesium	7439954	28.0		0.20
Manganese	7439965	0.15		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	3.4	J	5.0
Sodium	7440235	64.9		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.014	J	0.020

Matrix : SURF-H2O

Client Description	SC-EE01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-(diethylamino)-	100378	170	2	2.0

Matrix : SURF-H2O

Client Description	SC-EE01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	15		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	1.3	JB	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00028	J	0.00030
Copper	7440508	0.0048		0.0020
Lead	7439921	0.0011		0.0010
Silver	7440224	0.000070	J	0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.11		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.39		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	40.6		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.20		0.10
Magnesium	7439954	18.7		0.20
Manganese	7439965	0.016		0.010
Molybdenum	7439987	0.018	J	0.020
Nickel	7440020	ND		0.040
Potassium	7440097	1.9	J	5.0
Sodium	7440235	14.1		5.0
Vanadium	7440622	0.0097	J	0.010
Zinc	7440666	0.020		0.020

Matrix : SURF-H2O

Client Description	SC-EE02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
12H-Quinoxalino(2,3-B) (1,4)^benzothiazine	258173	17	1	1.0
1H-Indol-5-ol	1953544	24	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-^(hydroxymethyl)-5,5-di!	116256	44	2z	2.0
2,4-Pentanediol, 2-methyl-	107415	230	2	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Pentanone, 4-hydroxy-4-methyl-	123422	32	1	1.0
2-Picoline	109068	ND		10
2-Pyrrolidinone, 1-methyl-	872504	9.8	2	2.0
2H-Indol-2-one, 1,3-dihydro-	59483	6.4	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
7-Amino-2,3-dihydro-5-phenyl-1H-1,4-^benzidazepi!	4928023	16	1z	1.0
7-Amino-2,3-dihydro-5-phenyl-1H-1,4-^benzidazepi!	4928023	24	1z	1.0
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	4.6	J	50
Benzyl alcohol	100516	ND		10
Butanoic acid	107926	9.2	2	2.0
Butyl benzyl phthalate	85687	ND		10

Matrix : SURF-H2O

Client Description	SC-EE02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Caffeine	58082	9.0	2	2.0
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-(diethylamino)-	100378	110	2	2.0
Ethanol, 2-butoxy-	111762	30	1	1.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methanediamine, N,N,N',N'-tetraethyl-	102534	6.8	1	1.0
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	1.6	J	10
Phosphoric acid, 2-ethylhexyl^diphenyl ester	1241947	17	2	2.0
Phosphoric acid, 2-ethylhexyl^diphenyl ester	1241947	18	2	2.0
Phosphoric acid, 2-ethylhexyl^diphenyl ester	1241947	23	2	2.0
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Saturated Hydrocarbon: >C20	7319043800	12		
Saturated Hydrocarbon: >C20	7319043800	13		
Saturated Hydrocarbon: >C20	7319043800	16		
Saturated Hydrocarbon: >C20	7319043800	20		
Saturated Hydrocarbon: >C20	7319043800	22		
Saturated Hydrocarbon: C10-C20	731904300	14		
Saturated Hydrocarbon: C10-C20	731904300	15		
Saturated Hydrocarbon: C10-C20	731904300	22		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	9.0	J	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	1.2	JB	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	1.2	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0011	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00081		0.00030
Copper	7440508	0.15		0.0020
Lead	7439921	0.024		0.0010
Silver	7440224	0.000060	J	0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.42		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	54.5		0.20
Chromium	7440473	0.0085	J	0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.20		0.10
Magnesium	7439954	25.1		0.20
Manganese	7439965	0.011		0.010
Molybdenum	7439987	0.094		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	2.8	J	5.0
Sodium	7440235	15.7		5.0
Vanadium	7440622	0.014		0.010
Zinc	7440666	0.085		0.020

Matrix : SURF-H2O

Client Description	SC-EE03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-(1,2-Dichloro-2-(5-methoxy-4-^phenyl-1,2,4-tria!	63376636	5.6	2z	2.0
1-Butene, 3,3-dimethyl-	558372	5.5	1	1.0
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
1H-Inden-1-one, 2,3-dihydro-	83330	8.1	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-^(hydroxymethyl)-5,5-di!	116256	32	2z	2.0
2,4-Imidazolidinedione, 1-^(hydroxymethyl)-5,5-di!	116256	62	2z	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Butanol, 3-methyl-	598754	14	2	2.0
2-Butanol, 3-methyl-	598754	9.0	2	2.0
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2-Propenal, 3-(dimethylamino)-	927639	5.0	1	1.0
2-Pyridinecarbonitrile	100709	7.1	1	1.0
2H-Indol-2-one, 1,3-dihydro-	59483	9.2	1	1.0
3,3'-Dichlorobenzidine	91941	ND		20
3,6,9,12,15-Pentaoxanonadecan-1-ol	1786943	6.8	1	1.0
3,6,9,12-Tetraoxahexadecan-1-ol	1559348	6.4	2	2.0
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3-Pentanol	584021	4.5	2	2.0
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4- and 5-(1,1,3-Trimethyl-2-butenyl)-^2-cyclopent!	78002694	7.2	1z	1.0
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
9,12-Octadecadienoic acid (Z,Z)-	60333	6.2	2	2.0
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10

Matrix : SURF-H2O

Client Description	SC-EE03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Bicyclo[4.2.0]octa-1,3,5-triene	694871	9.3	1	1.0
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-(diethylamino)-	100378	4.2	2	2.0
Ethanol, 2-(diethylamino)-	100378	69	2	2.0
Ethanol, 2-butoxy-	111762	9.2	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Formamide, N-methyl-	123397	9.8	2	2.0
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Oleic Acid	112801	15	1	1.0
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Saturated Hydrocarbon: >C20	7319043800	10		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	19		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	1.2	J	5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	7.4	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0023	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00083		0.00030
Copper	7440508	0.053		0.0020
Lead	7439921	0.00089	J	0.0010
Silver	7440224	0.00018		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.47		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	62.6		0.20
Chromium	7440473	0.0086	J	0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.072	J	0.10
Magnesium	7439954	30.4		0.20
Manganese	7439965	0.0092	J	0.010
Molybdenum	7439987	0.18		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	3.5	J	5.0
Sodium	7440235	19.6		5.0
Vanadium	7440622	0.016		0.010
Zinc	7440666	0.024		0.020

Matrix : SURF-H2O

Client Description	SC-EE04-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
1H-Indol-5-ol	1953544	7.6	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-^(hydroxymethyl)-5,5-di!	116256	5.6	2z	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10

Matrix : SURF-H2O

Client Description	SC-EE04-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diphenylamine	122394	ND		10
Ethanol, 2-(diethylamino)-	100378	14	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE04-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	7.0	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE04-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00032		0.00030
Copper	7440508	0.038		0.0020
Lead	7439921	0.00089	J	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	ND		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.40		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	45.2		0.20
Chromium	7440473	0.0063	J	0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE04-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.087	J	0.10
Magnesium	7439954	21.8		0.20
Manganese	7439965	0.0097	J	0.010
Molybdenum	7439987	0.036		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	2.0	J	5.0
Sodium	7440235	16.9		5.0
Vanadium	7440622	0.012		0.010
Zinc	7440666	0.026		0.020

Matrix : SURF-H2O

Client Description	SC-EE05-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-(2-ethoxyethoxy)-	111900	10	2	2.0

Matrix : SURF-H2O

Client Description	SC-EE05-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	1.1	J	10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Propane, 1-(1-methylethoxy)-	627087	4.9	2	2.0
Pyrene	129000	ND		10
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE05-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units : ug/L** **Data Collected : 06/08/95**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units : ug/L** **Data Collected : 06/08/95**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE05-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.010

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0057		0.00030
Copper	7440508	0.040		0.0020
Lead	7439921	0.0048	B	0.0010
Silver	7440224	0.000073	J	0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.10		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.36		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	31.6		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE05-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.11		0.10
Magnesium	7439954	15.8		0.20
Manganese	7439965	0.024		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	0.92	J	5.0
Sodium	7440235	8.7		5.0
Vanadium	7440622	0.0086	J	0.010
Zinc	7440666	0.041		0.020

Matrix : SURF-H2O

Client Description	SC-EE06-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 5,5-dimethyl-	77714	16	2	2.0
2,4-Pentanediol, 2-methyl-	107415	4.6	2	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2H-Indol-2-one, 1,3-dihydro-	59483	8.4	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10

Matrix : SURF-H2O

Client Description	SC-EE06-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-butoxy-, phosphate (3:1)	78513	6.2	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Heneicosane	629947	4.1	1	1.0
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Pentacosane	629992	5.8	1	1.0
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Saturated Hydrocarbon: >C20	7319043800	12		
Saturated Hydrocarbon: >C20	7319043800	5.1		
Saturated Hydrocarbon: >C20	7319043800	5.4		
Saturated Hydrocarbon: >C20	7319043800	7.8		
Saturated Hydrocarbon: >C20	7319043800	7.9		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
Undecane, 2,4-dimethyl-	17312800	5.5	1	1.0
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE06-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE06-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.010

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.010

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0011		0.00030
Copper	7440508	0.049		0.0020
Lead	7439921	0.0027	B	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.12		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.45		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	55.1		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE06-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.18		0.10
Magnesium	7439954	25.7		0.20
Manganese	7439965	0.054		0.010
Molybdenum	7439987	0.11		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	2.7	J	5.0
Sodium	7440235	17.0		5.0
Vanadium	7440622	0.014		0.010
Zinc	7440666	0.025		0.020

Matrix : SURF-H2O

Client Description	SC-EE07-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
1H-Indole, 2,3-dihydro-4-methyl-	62108161	7.3	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-^(hydroxymethyl)-5,5-di!	116256	13	2z	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2-Pyridinecarbonitrile	100709	4.2	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10

Matrix : SURF-H2O

Client Description	SC-EE07-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanol, 2-butoxy-, phosphate (3:1)	78513	9.8	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Saturated Hydrocarbon: >C20	7319043800	4.1		
Saturated Hydrocarbon: >C20	7319043800	4.4		
Saturated Hydrocarbon: >C20	7319043800	6.7		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE07-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units : ug/L** **Data Collected : 06/08/95**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		–
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	7.4	J	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units : ug/L** **Data Collected : 06/08/95**

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE07-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0024	J	0.010

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0017	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0012		0.00030
Copper	7440508	0.042		0.0020
Lead	7439921	0.0029	B	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.10		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.47		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	59.4		0.20
Chromium	7440473	0.0061	J	0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE07-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.17		0.10
Magnesium	7439954	27.4		0.20
Manganese	7439965	0.047		0.010
Molybdenum	7439987	0.13		0.020
Nickel	7440020	0.0095	J	0.040
Potassium	7440097	3.3	J	5.0
Sodium	7440235	18.3		5.0
Vanadium	7440622	0.016		0.010
Zinc	7440666	0.028		0.020

Matrix : SURF-H2O

Client Description	SC-EE08-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Imidazolidinemethanol, 4,4-^dimethyl-2,5-dioxo-	16228005	10	2	2.0
1-Naphthylamine	134327	ND		10
14-Pentadecenoic acid	17351347	8.9	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2-Propanol, 1-[2-(2-methoxy-1-methyl-^ethoxy)-1-m!	20324338	4.3	2z	2.0
2-Pyridinecarbonitrile	100709	5.8	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3,6,9,12-Tetraoxahexadecan-1-ol	1559348	6.8	1	1.0
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
5-Isobenzofurancarboxylic acid,^1,3-dihydro-1,3-d!	22485490	4.1	1z	1.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
9-Hexadecenoic acid	2091294	7.0	2	2.0
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetamide, 2,2'-thiobis-	14618656	5.4	1	1.0
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzene, 1-isocyanato-4-methyl-	622582	7.8	2	2.0
Benzeneacetonitrile, .alpha.-phenyl-	86293	4.3	1	1.0
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10

Matrix : SURF-H2O

Client Description	SC-EE08-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethanamine, 1-(2,4-cyclopentadien-^1-ylidene)-N,N!	14469773	4.4	Iz	1.0
Ethanol, 2-butoxy-, phosphate (3:1)	78513	18	1	1.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Hexadecanoic acid	57103	7.6	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
Morpholine, 4-ethyl-	100743	18	1	1.0
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Phenol, 2-(1,1-dimethylethyl)-	98544	4.3	2	2.0
Phenol, 4-(1,1,3,3-tetramethylbutyl)-	140669	6.2	2	2.0
Phenol, 4-(2,2,3,3-tetramethylbutyl)-	54932784	3.9	2	2.0
Phenol, nonyl-	25154523	4.3	2	2.0
Phenol, nonyl-	25154523	5.4	2	2.0
Phosphine oxide, triphenyl-	791286	46	2	2.0
Phosphine sulfide, triphenyl-	3878453	9.2	2	2.0
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Saturated Hydrocarbon: >C20	7319043800	4.4		
Stannane, tetraethyl-	597648	4.7	1	1.0
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10
p-tert-Amyl phenoxy ethanol	6382076	4.7	2	2.0

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE08-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	11		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE08-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.020

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0031	J	0.010

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0010		0.00030
Copper	7440508	0.022		0.0020
Lead	7439921	0.0021	B	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.085	J	0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.41		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	54.8		0.20
Chromium	7440473	0.021		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE08-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/08/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.21		0.10
Magnesium	7439954	25.7		0.20
Manganese	7439965	0.12		0.010
Molybdenum	7439987	0.072		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	5.1		5.0
Sodium	7440235	88.2		5.0
Vanadium	7440622	0.011		0.010
Zinc	7440666	0.020		0.020

Matrix : SURF-H2O

Client Description	SC-EE09-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Imidazolidinemethanol, 4,4-^dimethyl-2,5-dioxo-	16228005	9.2	2	2.0
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Bromo-2'methoxyacetophenone	31949210	4.4	2	2.0
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2H-Indol-2-one, 1,3-dihydro-	59483	6.1	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzeneacetonitrile, .alpha.-phenyl-	86293	4.6	1	1.0
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Butyl hexadecanoate	90999200	4.8	1	1.0
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--

Matrix : SURF-H2O

Client Description	SC-EE09-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	1.5	J	10
Diphenylamine	122394	ND		10
Ethanol, 2-butoxy-, phosphate (3:1)	78513	24	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Octadecanoic acid, butyl ester	123955	5.4	2	2.0
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Phosphine oxide, triphenyl-	791286	43	2	2.0
Phosphine sulfide, triphenyl-	3878453	7.0	2	2.0
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Siloxane	73400	15		
Siloxane	73400	20		
Siloxane	73400	6.9		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE09-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE09-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0010		0.00030
Copper	7440508	0.020		0.0020
Lead	7439921	0.0021	B	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.093	J	0.10
Antimony	7440360	0.045	J	0.060
Barium	7440393	0.42		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	56.1		0.20
Chromium	7440473	0.012		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE09-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.19		0.10
Magnesium	7439954	26.2		0.20
Manganese	7439965	0.11		0.010
Molybdenum	7439987	0.058		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	5.2		5.0
Sodium	7440235	115		5.0
Vanadium	7440622	0.0083	J	0.010
Zinc	7440666	0.022		0.020

Matrix : SURF-H2O

Client Description	SC-EE10-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,4-Imidazolidinedione, 1-^(hydroxymethyl)-5,5-di!	116256	6.2	2z	2.0
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
2H-Indol-2-one, 1,3-dihydro-	59483	6.2	2	2.0
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	1.4	J	10

Matrix : SURF-H2O

Client Description	SC-EE10-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Diphenylamine	122394	ND		10
Ethanol, 2-butoxy-, phosphate (3:1)	78513	25	2	2.0
Ethyl methanesulfonate	62500	ND		10
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methanimidamide, N,N-dimethyl-N'-^(4-nitrophenyl)-	1205590	4.6	1	1.0
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Phosphine oxide, triphenyl-	791286	39	2	2.0
Phosphine sulfide, triphenyl-	3878453	6.6	2	2.0
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
Siloxane	73400	16		
Siloxane	73400	20		
Siloxane	73400	6.7		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EE10-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	ND		5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EE10-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0035	J	0.010

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.0011		0.00030
Copper	7440508	0.016		0.0020
Lead	7439921	0.0022	B	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.068	J	0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.39		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	54.6		0.20
Chromium	7440473	0.011		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EE10-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/07/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.22		0.10
Magnesium	7439954	25.3		0.20
Manganese	7439965	0.18		0.010
Molybdenum	7439987	0.056		0.020
Nickel	7440020	ND		0.040
Potassium	7440097	5.5		5.0
Sodium	7440235	116		5.0
Vanadium	7440622	0.0092	J	0.010
Zinc	7440666	0.022		0.020

Matrix : SURF-H2O

Client Description	SC-EW01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10

Matrix : SURF-H2O

Client Description	SC-EW01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
Oxygenated Hydrocarbon	5886108200	5.8		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EW01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	6.7	B	5.0
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	2.3	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	8.6	J	10
Xylenes (total)	1330207	ND		5.0
cis-1,2-Dichloroethene	156592	11	3	3.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EW01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.0050

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	ND		0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	0.0016	J	0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00027	J	0.00030
Copper	7440508	0.0038		0.0020
Lead	7439921	0.0020	B	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.16		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.24		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	47.7		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EW01-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	1.7		0.10
Magnesium	7439954	7.5		0.20
Manganese	7439965	0.50		0.010
Molybdenum	7439987	0.032		0.020
Nickel	7440020	0.099		0.040
Potassium	7440097	ND		5.0
Sodium	7440235	6.2		5.0
Vanadium	7440622	ND		0.010
Zinc	7440666	0.028		0.020

Matrix : SURF-H2O

Client Description	SC-EW02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10

Matrix : SURF-H2O

Client Description	SC-EW02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EW02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	ND		10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	6.4	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EW02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0029	J	0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00036		0.00030
Copper	7440508	0.0038		0.0020
Lead	7439921	0.00078	JB	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.072	J	0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.33		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	82.1		0.20
Chromium	7440473	0.0066	J	0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EW02-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.090	J	0.10
Magnesium	7439954	28.0		0.20
Manganese	7439965	0.047		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	0.013	J	0.040
Potassium	7440097	5.0		5.0
Sodium	7440235	52.4		5.0
Vanadium	7440622	0.0049	J	0.010
Zinc	7440666	0.014	J	0.020

Matrix : SURF-H2O

Client Description	SC-EW03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9012 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.010

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		10
1,2,4-Trichlorobenzene	120821	ND		10
1,2-Dichlorobenzene	95501	ND		10
1,3-Dichlorobenzene	541731	ND		10
1,4-Dichlorobenzene	106467	ND		10
1-Chloronaphthalene	90131	ND		50
1-Naphthylamine	134327	ND		10
2,3,4,6-Tetrachlorophenol	58902	ND		50
2,4,5-Trichlorophenol	95954	ND		50
2,4,6-Trichlorophenol	88062	ND		10
2,4-Dichlorophenol	120832	ND		10
2,4-Dimethylphenol	105679	ND		10
2,4-Dinitrophenol	51285	ND		50
2,4-Dinitrotoluene	121142	ND		10
2,6-Dichlorophenol	87650	ND		10
2,6-Dinitrotoluene	606202	ND		10
2-Chloronaphthalene	91587	ND		10
2-Chlorophenol	95578	ND		10
2-Methylnaphthalene	91576	ND		10
2-Methylphenol	95487	ND		10
2-Naphthylamine	91598	ND		10
2-Nitrophenol	88755	ND		10
2-Picoline	109068	ND		10
3,3'-Dichlorobenzidine	91941	ND		20
3-Methylcholanthrene	56495	ND		10
3-Nitroaniline	99092	ND		50
3/4-Methylphenol	7820600	ND		10
4,6-Dinitro-^2-methylphenol	534521	ND		50
4-Aminobiphenyl	92671	ND		10
4-Bromophenyl^phenyl ether	101553	ND		10
4-Chloro-3-methylphenol	59507	ND		10
4-Chloroaniline	106478	ND		10
4-Chlorophenyl ^phenyl ether	7005723	ND		10
4-Nitroaniline	100016	ND		50
4-Nitrophenol	100027	ND		50
7,12-Dimethylbenz(a)-^anthracene	57976	ND		10
Acenaphthene	83329	ND		10
Acenaphthylene	208968	ND		10
Acetophenone	98862	ND		10
Aniline	62533	ND		10
Anthracene	120127	ND		10
Azobenzene	103333	ND		50
Benzidine	92875	ND		50
Benzo(a)anthracene	56553	ND		10
Benzo(a)pyrene	50328	ND		10
Benzo(b)fluoranthene	205992	ND		10
Benzo(g,h,i)perylene	191242	ND		10
Benzo(k)fluoranthene	207089	ND		10
Benzoic acid	65850	ND		50
Benzyl alcohol	100516	ND		10
Butyl benzyl phthalate	85687	ND		10
Chrysene	218019	ND		10
Di-n-butyl phthalate	84742	ND		10
Di-n-octyl phthalate	117840	ND		10
Dibenz(a,h)anthracene	53703	ND		10
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		10
Diethyl phthalate	84662	ND		10
Dimethyl phthalate	131113	ND		10
Diphenylamine	122394	ND		10
Ethyl methanesulfonate	62500	ND		10

Matrix : SURF-H2O

Client Description	SC-EW03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Fluoranthene	206440	ND		10
Fluorene	86737	ND		10
Hexachlorobenzene	118741	ND		10
Hexachlorobutadiene	87683	ND		10
Hexachlorocyclopentadiene	77474	ND		10
Hexachloroethane	67721	ND		10
Indeno(1,2,3-cd)pyrene	193395	ND		10
Isophorone	78591	ND		10
Methyl methanesulfonate	66273	ND		10
N-Nitroso-di-^n-propylamine	621647	ND		10
N-Nitroso-di-n-butylamine	924163	ND		10
N-Nitrosodiphenylamine	86306	ND		10
N-Nitrosopiperidine	100754	ND		10
Naphthalene	91203	ND		10
Nitrobenzene	98953	ND		10
None Detected	320100	ND		
Pentachlorobenzene	608935	ND		10
Pentachloronitrobenzene	82688	ND		50
Pentachlorophenol	87865	ND		50
Phenacetin	62442	ND		10
Phenanthrene	85018	ND		10
Phenol	108952	ND		10
Pronamide	23950585	ND		10
Pyrene	129000	ND		10
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
TID Compound 16	9382901	ND		
TID Compound 17	9382001	ND		
TID Compound 18	9382101	ND		
TID Compound 19	9382202	ND		
TID Compound 20	9382402	ND		
TID Compound 21	9382502	ND		
TID Compound 22	9382602	ND		
TID Compound 23	9382702	ND		
TID Compound 24	9382801	ND		
TID Compound 25	9382902	ND		
a,a-Dimethylphenethyl-^amine	122098	ND		10
bis(2-Chloroethoxy)^methane	111911	ND		10
bis(2-Chloroethyl) ether	111444	ND		10
bis(2-Chloroisopropyl)^ether	108601	ND		10
bis(2-Ethylhexyl)^phthalate	117817	ND		10
p-Dimethylaminoazobenzene	60117	ND		10

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : SURF-H2O

Client Description	SC-EW03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	0078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	4.3	J	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	6.0	B	5.0
None Detected	320100	ND		
Styrene	100425	ND		5.0
TID Compound 2	9382000	ND		
TID Compound 3	9382100	ND		
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		0.10
4,4'-DDE	72559	ND		0.10
4,4'-DDT	50293	ND		0.10
Aldrin	309002	ND		0.050
Aroclor 1016	12674112	ND		1.0
Aroclor 1221	11104282	ND		1.0
Aroclor 1232	11141165	ND		1.0
Aroclor 1242	53469219	ND		1.0
Aroclor 1248	12672296	ND		1.0

Matrix : SURF-H2O

Client Description	SC-EW03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	ND		1.0
Aroclor 1260	11096825	ND		1.0
Dieldrin	60571	ND		0.10
Endosulfan I	959988	ND		0.050
Endosulfan II	33213659	ND		0.10
Endosulfan sulfate	1031078	ND		0.10
Endrin	72208	ND		0.10
Endrin aldehyde	7421934	ND		0.10
Heptachlor	76448	ND		0.050
Heptachlor epoxide	1024573	ND		0.050
Methoxychlor	72435	ND		0.50
Toxaphene	8001352	ND		5.0
alpha-BHC	319846	ND		0.050
alpha-Chlordane	5103719	ND		0.050
beta-BHC	319857	ND		0.050
delta-BHC	319868	ND		0.050
gamma-BHC (Lindane)	58899	ND		0.050
gamma-Chlordane	5103742	ND		0.050

Analytical Test Method : 7841 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Thallium	7440280	ND		0.010

Analytical Test Method : 7740 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Selenium	7782492	0.0031	J	0.0050

Analytical Test Method : 7470 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.00020

Analytical Test Method : 7060 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Arsenic	7440382	ND		0.0050

Analytical Test Method : 6020 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cadmium	7440439	0.00031		0.00030
Copper	7440508	0.0036		0.0020
Lead	7439921	0.00095	JB	0.0010
Silver	7440224	ND		0.00010

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	0.11		0.10
Antimony	7440360	ND		0.060
Barium	7440393	0.34		0.010
Beryllium	7440417	ND		0.0020
Calcium	7440702	83.5		0.20
Chromium	7440473	ND		0.010
Cobalt	7440484	ND		0.010

Matrix : SURF-H2O

Client Description	SC-EW03-SW-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 6010 **Units :** mg/L **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Iron	7439896	0.11		0.10
Magnesium	7439954	28.2		0.20
Manganese	7439965	0.055		0.010
Molybdenum	7439987	ND		0.020
Nickel	7440020	0.012	J	0.040
Potassium	7440097	5.1		5.0
Sodium	7440235	53.5		5.0
Vanadium	7440622	0.0042	J	0.010
Zinc	7440666	0.013	J	0.020

Section C

Second Ecological Assessment
Crawfish Data

Matrix : TISSUE

Client Description	CR-EC01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	12000	1	1.0
1,3-Cyclooctadiene	1700103	83000	2	2.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Docosene	1599673	2600	2	2.0
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	120000	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	2800	2	2.0
9,17-Octadecadienal, (Z)-	56554359	8200	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	32000	2	2.0
Cholesterol	57885	55000	2	2.0
Chrysene	218019	ND		1300
Cyclobutane, methoxy-	18593334	2200	2	2.0

Matrix : TISSUE

Client Description	CR-EC01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanoic acid	143077	2200	2	2.0
Eicosanoic acid	506309	3600	1	1.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	4100	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	39000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	12000	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-(5-Pyrrolidinopent-3-ynyl)^succinimide N'-oxide	75322962	3700	2	2.0
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octacycloheptadec-8-en-2-one	123693	18000	2	2.0
Octadecanoic acid	57114	29000	2	2.0
Octadecanoic acid, methyl ester	112618	3700	2	2.0
Oleic Acid	112801	190000	2	2.0
Oleic Acid	112801	2900	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	150	J	6400
Pentadecanoic acid	1002842	2600	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	4000	2	2.0
Tetradecanoic acid	544638	3700	2	2.0
Thymidine	50895	5100	2	2.0
Vitamin E	59029	7500	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	180	J	1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	CR-EC01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	2.6	J	10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	260	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	4.7	2	2.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	45	1	1.0
Methylene chloride	75092	5.5		5.0
Siloxane	73400	8.4		
Styrene	100425	ND		5.0
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	1.1	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Undecane	09747	22	1	1.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33

Matrix : TISSUE

Client Description	CR-EC01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	45		33
Aroclor 1254	11097691	61		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	ND		3.3
Heptachlor	76448	ND		1.7
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	105		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	172		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	31900		20.0
Chromium	7440473	ND		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	32.3		2.0
Iron	7439896	137		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.73	B	0.30
Magnesium	7439954	619		20.0
Manganese	7439965	77.4		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2470		500
Selenium	7782492	0.88		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1990		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.36	J	1.0
Zinc	7440666	19.9		2.0

Matrix : TISSUE

Client Description	CR-EC01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene, (Z,Z)-	3806595	1300	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Cyclooctadiene, (Z,Z)-	16327223	18000	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Butanamine, N,N-dimethyl-	927628	3700	2	2.0
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
15-Octadecenoic acid, methyl ester	4764721	3900	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3.3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	100000	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadien-1-ol	1577522	5200	2	2.0
9-Hexadecenoic acid, methyl ester,^(Z)-	1120258	3400	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	32000	2	2.0
Cholesterol	57885	56000	2	2.0
Chrysene	218019	ND		1300

Matrix : TISSUE

Client Description	CR-EC01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyclopentadecanone, 2-hydroxy-	4727188	2200	2	2.0
Cyclopropaneoctanal, 2-octyl-	56196066	60000	1	1.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	2300	2	2.0
Heptadecanoic acid	506127	3000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	40000	2	2.0
Hexane, 2,3,4-trimethyl-	921471	3900	1	1.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	8200	2	2.0
Oleic Acid	112801	1800	1	1.0
Oxacyclotetradecane-2,11-^dione, 13-methyl-	74685362	4400	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	3300	2	2.0
Pentadecanoic acid, 14-methyl-,^methyl ester	5129602	1900	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	4700	2	2.0
Tetradecanoic acid	544638	4600	2	2.0
Thymidine	50895	1500	2	2.0
Urea	57136	3000	2	2.0
Vitamin E	59029	7400	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	CR-EC01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	2800	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 3-methyl-	00637	5.8	1	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Cyclic Hydrocarbon	76904300	7.8		
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	30	1	1.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	30		5.0
Saturated Hydrocarbon: C10-C20	731904300	13		
Siloxane	73400	11		
Styrene	100425	ND		5.0
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33

Matrix : TISSUE

Client Description	CR-EC01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	23	J	33
Aroclor 1254	11097691	35		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	ND		3.3
Heptachlor	76448	ND		1.7
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	59.5		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	148		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	28800		20.0
Chromium	7440473	ND		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	28.0		2.0
Iron	7439896	84.7		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.54	B	0.30
Magnesium	7439954	564		20.0
Manganese	7439965	52.1		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2350		500
Selenium	7782492	0.58		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1860		500
Thallium	7440280	ND		1.6
Vanadium	7440622	ND		1.0
Zinc	7440666	21.4		2.0

Matrix : TISSUE

Client Description	CR-EC01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene, (Z,Z)-	3806595	39000	I	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Cyclooctadiene, (Z,Z)-	16327223	6600	I	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
1-Tetradecanol	112721	26000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	120000	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5,8,11,14-Eicosatetraenoic,^methyl ester, (all-Z)-	2566894	47000	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadien-1-ol	1577522	7600	2	2.0
9-Hexadecenoic acid	2091294	2800	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	84000	2	2.0
Chrysene	218019	ND		1300
Di-n-butyl phthalate	84742	ND		1300

Matrix : TISSUE

Client Description	CR-EC01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanoic acid	143077	3000	2	2.0
Eicosanoic acid	506309	3400	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	2400	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	36000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	7700	2z	2.0
Hexadecanoic acid, methyl ester	112390	2500	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl ester of 2S-(1,2,3,4,4a,^5,6,7,8,8a.alpha!	83037790	4200	1z	1.0
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	31000	2	2.0
Octadecanoic acid, methyl ester	112618	3500	2	2.0
Oleic Acid	112801	18000	1	1.0
Oleic Acid	112801	210000	1	1.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	2700	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	3900	2	2.0
Tetradecanoic acid	544638	3200	2	2.0
Tetradecanoic acid	544638	3500	2	2.0
Thymidine	50895	7400	2	2.0
Vitamin E	59029	8600	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	CR-EC01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	10		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	3600	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	29	2	2.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	33	1	1.0
Methylene chloride	75092	280	E	5.0
Oxygenated Hydrocarbon	5886108200	7.8		
Propanal, 2-methyl-	00269	11	1	1.0
Siloxane	73400	14		
Styrene	100425	ND		5.0
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	1.1	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	12		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33

Matrix : TISSUE

Client Description	CR-EC01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	39		33
Aroclor 1254	11097691	48		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	ND		3.3
Heptachlor	76448	ND		1.7
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	80.1		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	200		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	36200		20.0
Chromium	7440473	ND		1.0
Cobalt	7440484	0.82	J	1.0
Copper	7440508	37.2		2.0
Iron	7439896	114		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.48	B	0.30
Magnesium	7439954	632		20.0
Manganese	7439965	71.7		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2360		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2200		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.40	J	1.0
Zinc	7440666	27.2		2.0

Matrix : TISSUE

Client Description	CR-EC02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	53000	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Hexadecanol	36653824	2800	2	2.0
1-Naphthylamine	134327	ND		1300
13-Tetradecenal	85896317	9000	2	2.0
15-Octadecenoic acid, methyl ester	4764721	13000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	62000	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	130000	2	2.0
9,12-Octadecadienoic acid (Z,Z)-	60333	4400	2	2.0
9-Hexadecenoic acid	2091294	17000	2	2.0
9-Hexadecenoic acid	2091294	2100	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	68000	2	2.0

Matrix : TISSUE

Client Description	CR-EC02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	ND		1300
Decanoic acid	334485	9400	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Eicosanoic acid	506309	2500	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	2400	2	2.0
Heptadecanoic acid	506127	3000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	38000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	7200	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	26000	2	2.0
Oxacyclohexadecan-2-one	106025	2800	1	1.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	2400	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	2500	2	2.0
Tetracosane, 11-decyl-	55429840	3100	2	2.0
Tetradecanoic acid	544638	3400	2	2.0
Thymidine	50895	4400	2	2.0
Vitamin E	59029	5500	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300
p-Mentha-1(7),8(10)-dien-9-ol	29548138	4400	2	2.0

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	CR-EC02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	45		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
2-Pentanone	107879	6.1	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	3200	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Benzeneacetaldehyde	122781	5.1	1	1.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 2-methyl-	00660	25	1	1.0
Butanal, 3-methyl-	00637	43	1	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Dodecane	12779	18	1	1.0
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	14	1	1.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	15		5.0
Oxygenated Hydrocarbon	5886108200	14		
Oxygenated Hydrocarbon	5886108200	16		
Oxygenated Hydrocarbon	5886108200	6.2		
Oxygenated Hydrocarbon	5886108200	7.2		
Oxygenated Hydrocarbon	5886108200	8.5		
Propanal, 2-methyl-	00269	31	1	1.0
Saturated Hydrocarbon: >C20	7319043800	7.2		
Styrene	100425	ND		5.0
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	1.7		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33

Matrix : TISSUE

Client Description	CR-EC02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	88		33
Aroclor 1254	11097691	91		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	2.2	J	3.3
Endrin aldehyde	7421934	2.3	J	3.3
Heptachlor	76448	ND		1.7
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	111		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	251		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	49100		20.0
Chromium	7440473	ND		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	33.8		2.0
Iron	7439896	158		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.86	B	0.30
Magnesium	7439954	848		20.0
Manganese	7439965	144		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	3010		500
Selenium	7782492	1.1		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2680		500
Thallium	7440280	ND	G	1.7
Vanadium	7440622	0.42	J	1.0
Zinc	7440666	28.7		2.0

Matrix : TISSUE

Client Description	CR-EC02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	49000	2	2.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
2-Pyrazolin-5-one, 1-acetyl-^3-methyl-	5203929	3500	1	1.0
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	71000	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Dodecanol	10203324	2600	1	1.0
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	120000	2	2.0
9,12-Octadecadienoic acid,^methyl ester, (E,E)-	2566974	3500	2	2.0
9,17-Octadecadienal, (Z)-	56554359	3700	2	2.0
9-Hexadecenoic acid	2091294	14000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	62000	2	2.0
Chrysene	218019	ND		1300

Matrix : TISSUE

Client Description	CR-EC02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Decanoic acid	334485	6400	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanoic acid	143077	1800	2	2.0
Eicosanoic acid	506309	1800	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Glycerin	56815	9200	2	2.0
Heptadecanoic acid	506127	1600	2	2.0
Heptadecanoic acid	506127	2300	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	35000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octacycloheptadec-8-en-2-one	123693	11000	2	2.0
Octadecanoic acid	57114	22000	2	2.0
Oleic Acid	112801	53000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	1900	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	2000	2	2.0
Tetradecanoic acid	544638	2700	2	2.0
Thymidine	50895	4800	2	2.0
Vitamin E	59029	5300	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300
p-Mentha-1(7),8(10)-dien-9-ol	29548138	3300	1	1.0

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	CR-EC02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	25		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
2-Penten-1-ol, (E)-	00635	9.6	I	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	4600	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	1.6	J	5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Dodecane	12779	10	I	1.0
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	10	I	1.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	16	I	1.0
Methanamine, N,N-dimethyl-	00106	29	I	1.0
Methylene chloride	75092	97		5.0
Pentanal	00641	14	I	1.0
Propanal, 2-methyl-	00269	13	I	1.0
Siloxane	73400	9.4		
Styrene	100425	ND		5.0
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	1.4	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	5.1		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33
Aroclor 1248	12672296	ND		33

Matrix : TISSUE

Client Description	CR-EC02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	31	J	33
Aroclor 1254	11097691	42		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	ND		3.3
Heptachlor	76448	ND		1.7
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	73.9		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	148		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	36000		20.0
Chromium	7440473	ND		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	34.8		2.0
Iron	7439896	111		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.80	B	0.30
Magnesium	7439954	582		20.0
Manganese	7439965	53.6		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2770		500
Selenium	7782492	0.46	J	0.50
Silver	7440224	ND		1.0
Sodium	7440235	2510		500
Thallium	7440280	ND	G	1.9
Vanadium	7440622	ND		1.0
Zinc	7440666	26.4		2.0

Matrix : TISSUE

Client Description	CR-EC02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	60000	2	2.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Dodecanol	112538	24000	2	2.0
1-Naphthylamine	134327	ND		1300
1-Octadecanol	112925	230000	2	2.0
1-Tetradecene	1120361	16000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	5400	2	2.0
9,17-Octadecadienal, (Z)-	56554359	11000	2	2.0
9-Hexadecenoic acid	2091294	4000	2	2.0
9-Hexadecenoic acid, methyl ester,^(Z)-	1120258	3000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Bicyclo[3.1.0]hexan-3-one	471158	61000	1	1.0
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	81000	2	2.0

Matrix : TISSUE

Client Description	CR-EC02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	ND		1300
Cyclopropane, 1-(2-methylene-3-^butenyl)-1-(1-met!	51567078	3600	2z	2.0
Decanoic acid, silver (1+) salt	13126675	12000	1	1.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	3000	2	2.0
Heptadecanoic acid	506127	3100	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	42000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	8300	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	35000	2	2.0
Octadecanoic acid, methyl ester	112618	4400	2	2.0
Octanoic acid	124072	4300	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	3100	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Siloxane	73400	2900		
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	3400	2	2.0
Tetradecanoic acid	544638	5100	2	2.0
Thymidine	50895	5900	2	2.0
Vitamin E	59029	7900	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		3.3
4,4'-DDE	72559	ND		3.3
4,4'-DDT	50293	ND		3.3
Aldrin	309002	ND		1.7
Aroclor 1016	12674112	ND		33
Aroclor 1221	11104282	ND		33
Aroclor 1232	11141165	ND		33
Aroclor 1242	53469219	ND		33

Matrix : TISSUE

Client Description	CR-EC02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1248	12672296	ND		33
Aroclor 1254	11097691	ND		33
Aroclor 1260	11096825	ND		33
Dieldrin	60571	ND		3.3
Endosulfan I	959988	ND		1.7
Endosulfan II	33213659	ND		3.3
Endosulfan sulfate	1031078	ND		3.3
Endrin	72208	ND		3.3
Endrin aldehyde	7421934	2.4	J	3.3
Endrin aldehyde	7421934	3.5		3.3
Heptachlor	76448	ND		1.7
Heptachlor epoxide	1024573	ND		1.7
Methoxychlor	72435	ND		17
Toxaphene	8001352	ND		170
alpha-BHC	319846	ND		1.7
alpha-Chlordane	5103719	ND		1.7
beta-BHC	319857	ND		1.7
delta-BHC	319868	ND		1.7
gamma-BHC (Lindane)	58899	ND		1.7
gamma-Chlordane	5103742	ND		1.7

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	75.0		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	234		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	ND		0.50
Calcium	7440702	42800		20.0
Chromium	7440473	ND		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	39.5		2.0
Iron	7439896	143		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.64	B	0.30
Magnesium	7439954	803		20.0
Manganese	7439965	205		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2970		500
Selenium	7782492	0.84		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2680		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.67	J	1.0
Zinc	7440666	29.6		2.0

Matrix : TISSUE

Client Description	SC-EE01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,13-Tetradecadiene	21964498	2300	1	1.0
1,2,4,5-Tetrachloro-^benzene	95943	ND		330
1,2,4-Trichlorobenzene	120821	ND		330
1,2-Dichlorobenzene	95501	ND		330
1,3-Dichlorobenzene	541731	ND		330
1,4-Dichlorobenzene	106467	ND		330
1,4-Undecadiene, (E)-	55976131	21000	1	1.0
1-Chloronaphthalene	90131	ND		2500
1-Hentetracontanol	40710427	2200	2	2.0
1-Naphthylamine	134327	ND		330
2,3,4,6-Tetrachlorophenol	58902	ND		1600
2,4(1H,3H)-Pyrimidinedione,^1-2-deoxy-.alpha.-D-e!	4449438	5500	2z	2.0
2,4,5-Trichlorophenol	95954	ND		1600
2,4,6-Trichlorophenol	88062	ND		330
2,4-Dichlorophenol	120832	ND		330
2,4-Dimethylphenol	105679	ND		330
2,4-Dinitrophenol	51285	ND		1600
2,4-Dinitrotoluene	121142	ND		330
2,6-Dichlorophenol	87650	ND		330
2,6-Dinitrotoluene	606202	ND		330
2-Chloronaphthalene	91587	ND		330
2-Chlorophenol	95578	ND		330
2-Methylnaphthalene	91576	ND		330
2-Methylphenol	95487	ND		330
2-Naphthylamine	91598	ND		330
2-Nitrophenol	88755	ND		330
2-Picoline	109068	ND		330
3,3'-Dichlorobenzidine	91941	ND		660
3-Decen-1-ol, (E)-	10339603	2300	1	1.0
3-Methylcholanthrene	56495	ND		330
3-Nitroaniline	99092	ND		1600
3-Tetradecyne	60212320	3200	2	2.0
3/4-Methylphenol	7820600	79	J	330
4,6-Dinitro-^2-methylphenol	534521	ND		1600
4-Aminobiphenyl	92671	ND		330
4-Bromophenyl^phenyl ether	101553	ND		330
4-Chloro-3-methylphenol	59507	ND		330
4-Chloroaniline	106478	ND		330
4-Chlorophenyl ^phenyl ether	7005723	ND		330
4-Nitroaniline	100016	ND		1600
4-Nitrophenol	100027	ND		1600
5,8,11,14-Eicosatetraenoic,^methyl ester, (all-Z)-	2566894	5500	1	1.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		330
7-Heptadecene, 1-chloro-	56554780	2400	1	1.0
8,11-Octadecadienoic acid,^methyl ester	56599587	2600	2	2.0
9,17-Octadecadienal, (Z)-	56554359	2400	2	2.0
9-Octadecenal, (Z)-	2423101	12000	1	1.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	21000	2	2.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	3000	2	2.0
Acenaphthene	83329	ND		330
Acenaphthylene	208968	ND		330
Acetophenone	98862	ND		330
Aniline	62533	ND		330
Anthracene	120127	ND		330
Azobenzene	103333	ND		2500
Benzidine	92875	ND		2500
Benzo(a)anthracene	56553	ND		330
Benzo(a)pyrene	50328	ND		330
Benzo(b)fluoranthene	205992	ND		330
Benzo(g,h,i)perylene	191242	ND		330
Benzo(k)fluoranthene	207089	ND		330

Matrix : TISSUE

Client Description	SC-EE01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzoic acid	65850	ND		2500
Benzyl alcohol	100516	ND		330
Bicyclo[2.2.1]heptane, 2-methyl-	15185112	760	1	1.0
Butyl benzyl phthalate	85687	ND		330
Cholesterol	57885	19000	2	2.0
Chrysene	218019	ND		330
Cyclodecene	3618120	3000	2	2.0
Di-n-butyl phthalate	84742	ND		330
Di-n-octyl phthalate	117840	ND		330
Dibenz(a,h)anthracene	53703	ND		330
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		330
Diethyl phthalate	84662	ND		330
Dimethyl phthalate	131113	ND		330
Diphenylamine	122394	ND		330
Ethyl methanesulfonate	62500	ND		330
Fluoranthene	206440	ND		330
Fluorene	86737	ND		330
Heptadecanoic acid	506127	3000	2	2.0
Heptadecanoic acid	506127	7800	2	2.0
Hexachlorobenzene	118741	ND		330
Hexachlorobutadiene	87683	ND		330
Hexachlorocyclopentadiene	77474	ND		330
Hexachloroethane	67721	ND		330
Hexadecanoic acid	57103	36000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		330
Isophorone	78591	ND		330
Methyl methanesulfonate	66273	ND		330
N-Nitroso-di-^n-propylamine	621647	ND		330
N-Nitroso-di-n-butylamine	924163	ND		330
N-Nitrosodiphenylamine	86306	ND		330
N-Nitrosopiperidine	100754	ND		330
Naphthalene	91203	ND		330
Nitrobenzene	98953	ND		330
Octadecanoic acid, methyl ester	112618	920	2	2.0
Oleic Acid	112801	2600	2	2.0
Oxacycloheptadecan-2-one	109295	34000	2	2.0
Pentachlorobenzene	608935	ND		330
Pentachloronitrobenzene	82688	ND		1600
Pentachlorophenol	87865	ND		1600
Pentadecanoic acid	1002842	3000	2	2.0
Pentadecanoic acid	1002842	3500	2	2.0
Phenacetin	62442	ND		330
Phenanthrene	85018	ND		330
Phenol	108952	210	J	330
Pronamide	23950585	ND		330
Pyrene	129000	ND		330
Tetradecanoic acid	544638	4800	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		330
bis(2-Chloroethoxy)^methane	111911	ND		330
bis(2-Chloroethyl) ether	111444	ND		330
bis(2-Chloroisopropyl)^ether	108601	ND		330
bis(2-Ethylhexyl)^phthalate	117817	ND		330
p-Dimethylaminoazobenzene	60117	ND		330

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	340	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bicyclo[4.1.0]heptan-3-one,^4,7,7-trimethyl-, [1R!	4176016	15	Iz	1.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Cyclic Hydrocarbon	76904300	12		
Cyclic Hydrocarbon	76904300	14		
Cyclic Hydrocarbon	76904300	24		
Cyclic Hydrocarbon	76904300	8.1		
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	10		5.0
Siloxane	73400	11		
Siloxane	73400	30		
Styrene	100425	ND		5.0
Tetrachloroethene	127184	2.8	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	12		
Unknown	57200	14		
Unknown	57200	15		
Unknown	57200	16		
Unknown	57200	8.6		
Unknown	57200	9.1		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330
Aroclor 1254	11097691	1300		330
Aroclor 1254	11097691	1500		330

Matrix : TISSUE

Client Description	SC-EE01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	ND		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	62.1		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	60.3		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	1.3		0.50
Calcium	7440702	17100		20.0
Chromium	7440473	1.9		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	99.3		2.0
Iron	7439896	100		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.4		0.30
Magnesium	7439954	379		20.0
Manganese	7439965	10.2		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2150		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1740		500
Thallium	7440280	ND		1.3
Vanadium	7440622	ND		1.0
Zinc	7440666	23.1		2.0

Matrix : TISSUE

Client Description	SC-EE01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
(+-)-15-Hexadecanolide	95338366	91000	2	2.0
1,2,4,5-Tetrachloro-^benzene	95943	ND		330
1,2,4-Trichlorobenzene	120821	ND		330
1,2-Dichlorobenzene	95501	ND		330
1,3-Dichlorobenzene	541731	ND		330
1,4-Dichlorobenzene	106467	ND		330
1-Chloronaphthalene	90131	ND		2500
1-Naphthylamine	134327	ND		330
1-Octadecene	112889	400	1	1.0
14-Pentadecenoic acid	17351347	220	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		1600
2,4,5-Trichlorophenol	95954	ND		1600
2,4,6-Trichlorophenol	88062	ND		330
2,4-Dichlorophenol	120832	ND		330
2,4-Dimethylphenol	105679	ND		330
2,4-Dinitrophenol	51285	ND		1600
2,4-Dinitrotoluene	121142	ND		330
2,6-Dichlorophenol	87650	ND		330
2,6-Dinitrotoluene	606202	ND		330
2-Chloronaphthalene	91587	ND		330
2-Chlorophenol	95578	ND		330
2-Methylnaphthalene	91576	ND		330
2-Methylphenol	95487	ND		330
2-Naphthylamine	91598	ND		330
2-Nitrophenol	88755	ND		330
2-Picoline	109068	ND		330
3,3'-Dichlorobenzidine	91941	ND		660
3-Methylcholanthrene	56495	ND		330
3-Nitroaniline	99092	ND		1600
3/4-Methylphenol	7820600	97	J	330
4,6-Dinitro-^2-methylphenol	534521	ND		1600
4-Aminobiphenyl	92671	ND		330
4-Bromophenyl^phenyl ether	101553	ND		330
4-Chloro-3-methylphenol	59507	ND		330
4-Chloroaniline	106478	ND		330
4-Chlorophenyl ^phenyl ether	7005723	ND		330
4-Nitroaniline	100016	ND		1600
4-Nitrophenol	100027	ND		1600
7,12-Dimethylbenz(a)-^anthracene	57976	ND		330
9,17-Octadecadienal, (Z)-	56554359	10000	1	1.0
Acenaphthene	83329	ND		330
Acenaphthylene	208968	ND		330
Acetophenone	98862	ND		330
Aniline	62533	ND		330
Anthracene	120127	ND		330
Azobenzene	103333	ND		2500
Benz[a]anthracene-7-carboxalehyde,^12-methyl-	13345614	1800	1	1.0
Benzidine	92875	ND		2500
Benzo(a)anthracene	56553	ND		330
Benzo(a)pyrene	50328	ND		330
Benzo(b)fluoranthene	205992	ND		330
Benzo(g,h,i)perylene	191242	ND		330
Benzo(k)fluoranthene	207089	ND		330
Benzoic acid	65850	ND		2500
Benzyl alcohol	100516	ND		330
Bicyclo[8.2.0]dodeca-3,7-diene,^11,11-dimethyl-	62338287	3200	1	1.0
Butyl benzyl phthalate	85687	ND		330
Cholesterol	57885	29000	2	2.0
Chrysene	218019	ND		330
Cyclohexane, 1,5-diethenyl-3-^methyl-2-methylene-!	74742351	3100	2z	2.0
Cyclohexane, 1,5-diethenyl-3-^methyl-2-methylene-!	74742351	3300	2z	2.0

Matrix : TISSUE

Client Description	SC-EE01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Decanoic acid	334485	1600	1	1.0
Di-n-butyl phthalate	84742	ND		330
Di-n-octyl phthalate	117840	580		330
Dibenz(a,h)anthracene	53703	ND		330
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		330
Diethyl phthalate	84662	ND		330
Dimethyl phthalate	131113	ND		330
Diphenylamine	122394	ND		330
Ergost-5-en-3-ol, (3.beta.)-	4651518	1600	2	2.0
Ergost-5-en-3-ol, (3.beta.)-	4651518	1900	2	2.0
Ethyl methanesulfonate	62500	ND		330
Fluoranthene	206440	ND		330
Fluorene	86737	ND		330
Hexachlorobenzene	118741	ND		330
Hexachlorobutadiene	87683	ND		330
Hexachlorocyclopentadiene	77474	ND		330
Hexachloroethane	67721	ND		330
Indeno(1,2,3-cd)pyrene	193395	ND		330
Isophorone	78591	ND		330
Methyl methanesulfonate	66273	ND		330
N-Nitroso-di-^n-propylamine	621647	ND		330
N-Nitroso-di-n-butylamine	924163	ND		330
N-Nitrosodiphenylamine	86306	ND		330
N-Nitrosopiperidine	100754	ND		330
Naphthalene	91203	ND		330
Nitrobenzene	98953	ND		330
Nonadecanoic acid	646300	340	2	2.0
Octadecanedioic acid	871705	220	1	1.0
Octadecanedioic acid	871705	300	1	1.0
Octadecanoic acid	57114	680	2	2.0
Oleic Acid	112801	940	2	2.0
Oxirane, Tetradecyl-	7320378	2100	1	1.0
Pentachlorobenzene	608935	ND		330
Pentachloronitrobenzene	82688	ND		1600
Pentachlorophenol	87865	ND		1600
Pentadecanoic acid	1002842	2800	1	1.0
Pentadecanoic acid	1002842	3400	2	2.0
Phenacetin	62442	ND		330
Phenanthrene	85018	ND		330
Phenol	108952	280	J	330
Pronamide	23950585	ND		330
Pyrene	129000	ND		330
Saturated Hydrocarbon: >C20	7319043800	1800		
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	3200	2	2.0
Tetradecanoic acid	544638	5400	2	2.0
Tridecanoic acid	638539	2100	1	1.0
Undecane, 6-azido-6-pentyl-	51677328	4700	1	1.0
a,a-Dimethylphenethyl-^amine	122098	ND		330
bis(2-Chloroethoxy)^methane	111911	ND		330
bis(2-Chloroethyl) ether	111444	ND		330
bis(2-Chloroisopropyl)^ether	108601	ND		330
bis(2-Ethylhexyl)^phthalate	117817	ND		330
p-Dimethylaminoazobenzene	60117	ND		330

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	10		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	28	1	1.0
Acetone	67641	4200	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Decane, 3-methyl-	13151343	14	1	1.0
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Dodecane	12779	18	1	1.0
Ethanamine, N-methyl-	00105	8.4	1	1.0
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	20	1	1.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	60	1	1.0
Methylene chloride	75092	36		5.0
Nonane, 3,7-dimethyl-	09738	9.1	1	1.0
Pentane	109660	26	1	1.0
Saturated Hydrocarbon: C10-C20	731904300	21		
Saturated Hydrocarbon: C10-C20	731904300	8.6		
Siloxane	73400	26		
Styrene	100425	ND		5.0
Tetrachloroethene	127184	1.9	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	7.5		
Unknown	57200	9.0		
Unsaturated Hydrocarbon	4628492500	7.8		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
cis-3-Butyl-4-vinyl-cyclopentene	08359	19	1	1.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330

Matrix : TISSUE

Client Description	SC-EE01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	1100		330
Aroclor 1254	11097691	1200		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	ND		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	97.8		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	144		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	1.4		0.50
Calcium	7440702	36900		20.0
Chromium	7440473	3.1		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	103		2.0
Iron	7439896	135		10.0
Lead	7439921	ND		5.0
Lead	7439921	2.1		0.30
Magnesium	7439954	616		20.0
Manganese	7439965	18.5		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.2	J	4.0
Potassium	7440097	2270		500
Selenium	7782492	1.5		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1830		500
Thallium	7440280	ND	G	1.4
Vanadium	7440622	0.43	J	1.0
Zinc	7440666	27.9		2.0

Matrix : TISSUE

Client Description	SC-EE01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0:00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Dichlorobenzene	541731	ND		1300
1,4-Cyclooctadiene, (Z,Z)-	16327223	24000	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
1-Pentadecanol	629765	4300	2	2.0
1-Pentene, 3-methyl-	760203	12000	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Octadecyne	61886644	2700	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5.alpha.-Stigmast-3-one-	83465	3600	1	1.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12,15-Octadecatrienoic acid,-^methyl ester	301008	6800	2	2.0
9,17-Octadecadienal, (Z)-	56554359	15000	2	2.0
9-Hexadecenoic acid, methyl ester,^(Z)-	1120258	4800	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesta-5,22-dien-3-ol, (3.beta.)-	34347289	2700	1	1.0
Cholesterol	57885	64000	2	2.0

Matrix : TISSUE

Client Description	SC-EE01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	ND		1300
Cyclopentadecanone, 2-hydroxy-	4727188	3200	2	2.0
Decanoic acid	334485	7300	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	3100	1	1.0
Heptadecanoic acid	506127	4300	2	2.0
Heptadecanoic acid	506127	7000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	68000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	7500	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	10000	2	2.0
Octadecanoic acid, 2-hydroxy-^1-(hydroxymethyl)e!	621614	4300	2z	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	5000	2	2.0
Pentadecanoic acid	1002842	5200	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	250	J	1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	7800	2	2.0
Thymidine	50895	2600	2	2.0
Vitamin E	59029	6300	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	330	J	1300
p-Dimethylaminoazobenzene	60117	ND		1300
p-Mentha-1(7),8(10)-dien-9-ol	29548138	2700	2	2.0

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	1100	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 2-methyl-	00660	7.4	1	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Cyclic Hydrocarbon	76904300	15		
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	16	1	1.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	45		5.0
Nonane, 2,6-dimethyl-	09735	21	1	1.0
Octane, 2,3,7-trimethyl-	09740	12	1	1.0
Pentane	109660	12	1	1.0
Styrene	100425	ND		5.0
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	2.0	J	5.0
Toluene	108883	1.0	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	10		
Unknown	57200	13		
Unknown	57200	18		
Unknown	57200	8.7		
Unknown	57200	9.8		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330

Matrix : TISSUE

Client Description	SC-EE01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	1300		330
Aroclor 1254	11097691	1500		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	ND		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	78.7		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	0.52	J	1.0
Barium	7440393	154		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	2.3		0.50
Calcium	7440702	55100		20.0
Chromium	7440473	2.4		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	104		2.0
Iron	7439896	178		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.9		0.30
Magnesium	7439954	722		20.0
Manganese	7439965	18.6		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2160		500
Selenium	7782492	0.92		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2010		500
Thallium	7440280	ND		1.3
Vanadium	7440622	ND		1.0
Zinc	7440666	26.4		2.0

Matrix : TISSUE

Client Description	SC-EE02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	24000	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4,8-Dodecatriene, (E,E,E)-	24252855	6700	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Hexadecanol	36653824	4100	2	2.0
1-Naphthylamine	134327	ND		1300
15-Tetracosenoic acid, methyl^ester, (Z)-	2733882	21000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3,9-Dodecadiene	54764657	4200	1	1.0
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,17-Octadecadienal, (Z)-	56554359	18000	2	2.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	76000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	150	J	1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Bicyclo[4.1.0]heptane-7,7-^dicarbonitrile, 1-meth!	74764537	8000	1z	1.0
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	93000	2	2.0
Chrysene	218019	240	J	1300

Matrix : TISSUE

Client Description	SC-EE02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyclooctene, 3-ethenyl-	2213607	6300	2	2.0
Cyclopentadecanone, 2-hydroxy-	4727188	5500	2	2.0
Cyclopropane, 1-ethyl-1-methyl-	53778431	15000	1	1.0
Decanoic acid	334485	19000	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ergost-7-en-3-ol, (3,.beta.)-	26047314	5800	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	560	J	1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	11000	2	2.0
Heptadecanoic acid	506127	16000	2	2.0
Heptadecanoic acid	506127	8900	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	93000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	7900	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	12000	2	2.0
Octadecanoic acid, 2-hydroxy-^1-(hydroxymethyl)e!	621614	6100	1z	1.0
Oxacycloheptadecan-2-one	109295	96000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	13000	2	2.0
Pentadecanoic acid	1002842	7500	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	240	J	1300
Phenol	108952	240	J	1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	18000	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	54		10
2-Chloroethyl vinyl ether	110758	ND		–
2-Heptanone	02658	14	I	1.0
2-Hexanone	591786	ND		10
2-Nonanone	06816	14	I	1.0
2-Pentanone	107879	8.8	I	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	1300	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 2-methyl-	00660	17	I	1.0
Butanal, 3-methyl-	00637	53	I	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	21		5.0
Octadecane, 2,6-dimethyl-	75163972	7.2	I	1.0
Oxygenated Hydrocarbon	5886108200	260		
Propanal, 2-methyl-	00269	14	I	1.0
Saturated Hydrocarbon: >C20	7319043800	7.9		
Styrene	100425	ND		5.0
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	1.2	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Undecane	09747	22	I	1.0
Undecane, 3,8-dimethyl-	15604	8.4	I	1.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330

Matrix : TISSUE

Client Description	SC-EE02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	2300	M	330
Aroclor 1254	11097691	3800		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	79		17
Heptachlor	76448	81		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	205		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	267		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	8.0		0.50
Calcium	7440702	54200		20.0
Chromium	7440473	3.6		1.0
Cobalt	7440484	1.2		1.0
Copper	7440508	83.2		2.0
Iron	7439896	261		10.0
Lead	7439921	5.6		5.0
Lead	7439921	3.1		0.30
Magnesium	7439954	985		20.0
Manganese	7439965	52.7		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	2.1	J	4.0
Potassium	7440097	2280		500
Selenium	7782492	0.46	J	0.50
Silver	7440224	0.32	J	1.0
Sodium	7440235	1870		500
Thallium	7440280	ND	G	1.7
Vanadium	7440622	1.0		1.0
Zinc	7440666	29.9		2.0

Matrix : TISSUE

Client Description	SC-EE02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	19000	I	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4,8-Dodecatriene, (E,E,E)-	24252855	4000	I	1.0
1,4-Cyclooctadiene, (Z,Z)-	16327223	3800	I	1.0
1,4-Dichlorobenzene	106467	ND		1300
1,9-Decadiene	1647161	3000	I	1.0
1-Chloronaphthalene	90131	ND		10000
1-Hentetracontanol	40710427	7200	I	1.0
1-Naphthylamine	134327	ND		1300
1-Nonadecene	18435455	5100	2	2.0
14-Pentadecenoic acid	17351347	3200	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	9000	2	2.0
3-Undecen-1-yne, (Z)-	74744324	3200	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (z,z)-,^2,3-dihydroxypr!	2277283	15000	2z	2.0
9-Hexadecenoic acid	2091294	61000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300

Matrix : TISSUE

Client Description	SC-EE02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Bicyclo[3.1.0]hexan-3-one	471158	55000	2	2.0
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	54000	2	2.0
Chrysene	218019	160	J	1300
Cyclodecene	3618120	3800	2	2.0
Cyclopentadecanone, 2-hydroxy-	4727188	12000	2	2.0
Cyclopentadecanone, 2-hydroxy-	4727188	3200	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	510	J	1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	8000	2	2.0
Heptadecanoic acid	506127	9000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanedioic acid	505544	3400	1	1.0
Hexadecanoic acid	57103	64000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	8800	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	5400	2	2.0
Pentadecanoic acid	1002842	8100	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	210	J	1300
Phenol	108952	150	J	1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	11000	2	2.0
Vitamin E	59029	6500	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	7.9	J	10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	1200	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 2-methyl-	00660	9.3	I	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Cyclohexanone, 5-methyl-2-(1-^methylethenyl)-, tr!	29606799	5.5	Iz	1.0
Cyclopentane, methyl-	00547	5.8	I	1.0
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Dodecane	12779	7.0	I	1.0
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	23	I	1.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	72		5.0
Pentanal	00641	20	I	1.0
Propanal, 2-methyl-	00269	15	I	1.0
Siloxane	73400	6.2		
Styrene	100425	ND		5.0
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	3.0	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Undecane	09747	85	I	1.0
Unsaturated Hydrocarbon	4628492500	6.8		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		16
4,4'-DDE	72559	ND		16
4,4'-DDT	50293	ND		16
Aldrin	309002	ND		8.5
Aroclor 1016	12674112	ND		160
Aroclor 1221	11104282	ND		160
Aroclor 1232	11141165	ND		160
Aroclor 1242	53469219	ND		160
Aroclor 1248	12672296	ND		160

Matrix : TISSUE

Client Description	SC-EE02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	1700	M	160
Aroclor 1254	11097691	2100		160
Aroclor 1260	11096825	ND		160
Dieldrin	60571	ND		16
Endosulfan I	959988	ND		8.5
Endosulfan II	33213659	ND		16
Endosulfan sulfate	1031078	ND		16
Endrin	72208	ND		16
Endrin aldehyde	7421934	ND		16
Heptachlor	76448	77		8.5
Heptachlor	76448	79		8.5
Heptachlor epoxide	1024573	ND		8.5
Methoxychlor	72435	ND		85
Toxaphene	8001352	ND		850
alpha-BHC	319846	ND		8.5
alpha-Chlordane	5103719	ND		8.5
beta-BHC	319857	ND		8.5
delta-BHC	319868	ND		8.5
gamma-BHC (Lindane)	58899	ND		8.5
gamma-Chlordane	5103742	ND		8.5

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	140		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	135		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	6.5		0.50
Calcium	7440702	38300		20.0
Chromium	7440473	2.4		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	85.3		2.0
Iron	7439896	200		10.0
Lead	7439921	ND		5.0
Lead	7439921	2.3		0.30
Magnesium	7439954	722		20.0
Manganese	7439965	26.6		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.3	J	4.0
Potassium	7440097	2110		500
Selenium	7782492	0.72		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1700		500
Thallium	7440280	ND	G	1.4
Vanadium	7440622	0.61	J	1.0
Zinc	7440666	27.5		2.0

Matrix : TISSUE

Client Description	SC-EE02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Dichlorobenzene	541731	ND		1300
1,4-Cyclooctadiene, (Z,Z)-	16327223	1600	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Hentetracontanol	40710427	2400	1	1.0
1-Heptadecene	6765395	3900	2	2.0
1-Naphthylamine	134327	ND		1300
1-Pentene, 3-methyl-	760203	6000	1	1.0
13-Tetradecenal	85896317	3500	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	52000	2	2.0
9,17-Octadecadienal, (Z)-	56554359	16000	1	1.0
9-Hexadecenoic acid	2091294	6000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Bicyclo[3.1.0]hexan-3-one	471158	50000	1	1.0
Bicyclo[5.1.0]oct-3-ene	659847	19000	1	1.0
Butyl benzyl phthalate	85687	ND		1300

Matrix : TISSUE

Client Description	SC-EE02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cholesta-5,22-dien-3-ol, (3.beta.)-	34347289	3400	1	1.0
Cholesterol	57885	45000	2	2.0
Chrysene	218019	ND		1300
Cyclododecene, (E)-	1486755	2400	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ergost-5-en-3-ol, (3.beta.)-	4651518	2200	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	230	J	1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	2100	1	1.0
Heptadecanoic acid	506127	3000	2	2.0
Heptadecanoic acid	506127	5000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	40000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	5900	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	9400	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	1800	2	2.0
Pentadecanoic acid	1002842	4100	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	140	J	1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	2700	2	2.0
Tetradecanoic acid	544638	5800	2	2.0
Vitamin E	59029	2900	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	ND		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	240	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	6.4		5.0
Pentanal	00641	12	I	1.0
Propanal, 2-methyl-	00269	9.9	I	1.0
Styrene	100425	ND		5.0
TID Compound 4	9382200	ND		
TID Compound 5	9382300	ND		
TID Compound 6	9382400	ND		
TID Compound 7	9382500	ND		
TID Compound 8	9382600	ND		
TID Compound 9	9382700	ND		
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Undecane	09747	10	I	1.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330

Matrix : TISSUE

Client Description	SC-EE02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	2400	M	330
Aroclor 1254	11097691	3400		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	75		17
Heptachlor	76448	77		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/12/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	200		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	0.62	J	1.0
Barium	7440393	199		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	6.2		0.50
Calcium	7440702	35300		20.0
Chromium	7440473	2.6		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	77.1		2.0
Iron	7439896	270		10.0
Lead	7439921	7.1		5.0
Lead	7439921	1.6		0.30
Magnesium	7439954	738		20.0
Manganese	7439965	35.1		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.3	J	4.0
Potassium	7440097	1980		500
Selenium	7782492	1.7		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1610		500
Thallium	7440280	ND	G	1.8
Vanadium	7440622	0.86	J	1.0
Zinc	7440666	26.6		2.0

Matrix : TISSUE

Client Description	SC-EE03-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene, (Z,Z)-	3806595	33000	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
2(1H)-Naphthalenone, octahydro-,^trans-	16021082	57000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Decen-1-ol, (Z)-	10340224	2200	1	1.0
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5-Octadecene, (E)-	7206215	12000	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	78000	2	2.0
9-Hexadecenoic acid	2091294	4200	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesta-5,22-dien-3-ol, (3.beta.)-	34347289	3000	2	2.0
Cholesterol	57885	65000	2	2.0
Chrysene	218019	ND		1300
Cyclohexanone, 6-furfurylidene-^2,3-dimethyl-2-ph!	17429571	4300	1z	1.0

Matrix : TISSUE

Client Description	SC-EE03-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyclopropane, 1,1-dimethyl-2-(2-^methyl-2-propenyl	69147031	6800	1z	1.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethanol, 2-(9,12-octadecadienyloxy)-,^(Z,Z)-	17367087	13000	2	2.0
Ethanol, 2-(tetradecyloxy)-	2136701	4900	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	7300	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	53000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et	23470000	6700	2z	2.0
Hexadecanoic acid, methyl ester	112390	8600	2	2.0
Hexanoic acid, 4-methyl-	1561111	2800	1	1.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	16000	2	2.0
Oleic Acid	112801	29000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	3900	2	2.0
Pentadecanoic acid	1002842	4400	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	160	J	1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	6500	2	2.0
Thymidine	50895	2300	2	2.0
Vitamin E	59029	5500	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0
1,2-Dichloropropane	78875	ND		5.0

Matrix : TISSUE

Client Description	SC-EE03-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1-Butanol, 3-methyl-	00791	300	1	1.0
2-Butanone (MEK)	078933	290	E	10
2-Chloroethyl vinyl ether	110758	ND		–
2-Heptanone	02658	29	1	1.0
2-Hexanone	591786	ND		10
2-Nonanone	06816	140	1	1.0
2-Pentanone	107879	35	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	65	1	1.0
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	83	1	1.0
Acetic acid, methyl ester	00299	36	1	1.0
Acetone	67641	1800	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bicyclo[3.2.0]hept-6-ene	00931	30	1	1.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 2-methyl-	00660	44	1	1.0
Butanal, 3-methyl-	00637	150	1	1.0
Butane, 2-methyl-	00271	12	1	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	110	1	1.0
Methylene chloride	75092	7.8		5.0
Oxygenated Hydrocarbon	5886108200	12		
Oxygenated Hydrocarbon	5886108200	1400		
Propanal, 2-methyl-	00269	48	1	1.0
Styrene	100425	ND		5.0
Tetrachloroethene	127184	ND		5.0
Toluene	108883	1.1	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		16
4,4'-DDE	72559	ND		16
4,4'-DDT	50293	ND		16
Aldrin	309002	ND		8.5
Aroclor 1016	12674112	ND		160
Aroclor 1221	11104282	ND		160
Aroclor 1232	11141165	ND		160
Aroclor 1242	53469219	ND		160
Aroclor 1248	12672296	ND		160
Aroclor 1254	11097691	510		160

Matrix : TISSUE

Client Description	SC-EE03-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	760		160
Aroclor 1260	11096825	ND		160
Dieldrin	60571	ND		16
Endosulfan I	959988	ND		8.5
Endosulfan II	33213659	ND		16
Endosulfan sulfate	1031078	ND		16
Endrin	72208	ND		16
Endrin aldehyde	7421934	ND		16
Heptachlor	76448	15		8.5
Heptachlor	76448	16		8.5
Heptachlor epoxide	1024573	ND		8.5
Methoxychlor	72435	ND		85
Toxaphene	8001352	ND		850
alpha-BHC	319846	ND		8.5
alpha-Chlordane	5103719	ND		8.5
beta-BHC	319857	ND		8.5
delta-BHC	319868	ND		8.5
gamma-BHC (Lindane)	58899	ND		8.5
gamma-Chlordane	5103742	ND		8.5

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	119		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	157		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	1.7		0.50
Calcium	7440702	46200		20.0
Chromium	7440473	4.1		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	90.8		2.0
Iron	7439896	203		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.3		0.30
Magnesium	7439954	977		20.0
Manganese	7439965	56.4		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2290		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1900		500
Thallium	7440280	ND	G	2.1
Vanadium	7440622	0.51	J	1.0
Zinc	7440666	27.1		2.0

Matrix : TISSUE

Client Description	SC-EE03-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Hentetracontanol	40710427	8400	2	2.0
1-Heptadecene	6765395	9900	2	2.0
1-Naphthylamine	134327	ND		1300
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2,6-Octadienal, 3,7-dimethyl, (E)-	141275	5600	1	1.0
2-Bicyclo[4.3.1]decan-10-one	20440215	11000	1	1.0
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Bicyclo[3.1.0]hexan-3-one	471158	51000	2	2.0
Bicyclo[5.1.0]oct-3-ene	659847	36000	2	2.0
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	80000	2	2.0
Chrysene	218019	ND		1300
Cyclododecene, (Z)-	1129891	7400	2	2.0
Cyclopentadecanone, 2-hydroxy-	4727188	7100	2	2.0

Matrix : TISSUE

Client Description	SC-EE03-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ergost-5-en-3-ol, (3.beta.)-	4651518	3400	2	2.0
Ergosta-5,22-dien-3-ol,^(3.beta.,^22E,24S)-	17472785	4100	1	1.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	150	J	1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	11000	2	2.0
Heptadecanoic acid	506127	12000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	6800	2z	2.0
Hexadecanoic acid, methyl ester	112390	5400	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Nonadecanoic acid	646300	3200	2	2.0
Octadecanoic acid	57114	19000	2	2.0
Oleic Acid	112801	110000	2	2.0
Oxacyclohexadecan-2-one, 16-methyl-	4459578	53000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	5600	2	2.0
Pentadecanoic acid	1002842	7000	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	310	J	1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Spiro[4.5]decan-1-one	4728910	7000	2	2.0
Stigmast-5-en-3-ol-, (3.beta.,24S)-	83476	3300	2	2.0
Tetradecanoic acid	544638	73000	2	2.0
Tetradecanoic acid	544638	8100	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE03-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
1-Butanol, 3-methyl-	00791	250	1	1.0
2-Butanone (MEK)	078933	240	E	10
2-Chloroethyl vinyl ether	110758	ND		--
2-Heptanone	02658	12	1	1.0
2-Hexanone	591786	ND		10
2-Nonanone	06816	29	1	1.0
2-Pentanone	107879	24	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	16	1	1.0
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	18	1	1.0
Acetic acid, methyl ester	00299	40	1	1.0
Acetone	67641	1400	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 2-methyl-	00660	30	1	1.0
Butanal, 3-methyl-	00637	120	1	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Cyclic Hydrocarbon	76904300	8.3		
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	54	1	1.0
Methylene chloride	75092	7.2		5.0
Oxygenated Hydrocarbon	5886108200	17		
Oxygenated Hydrocarbon	5886108200	720		
Propanal, 2-methyl-	00269	23	1	1.0
Styrene	100425	ND		5.0
Tetrachloroethene	127184	ND		5.0
Toluene	108883	2.2	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Unknown	57200	10		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		13
4,4'-DDE	72559	ND		13
4,4'-DDT	50293	ND		13
Aldrin	309002	ND		6.8
Aroclor 1016	12674112	ND		130
Aroclor 1221	11104282	ND		130
Aroclor 1232	11141165	ND		130
Aroclor 1242	53469219	ND		130
Aroclor 1248	12672296	ND		130

Matrix : TISSUE

Client Description	SC-EE03-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	450		130
Aroclor 1254	11097691	520		130
Aroclor 1260	11096825	ND		130
Dieldrin	60571	ND		13
Endosulfan I	959988	ND		6.8
Endosulfan II	33213659	ND		13
Endosulfan sulfate	1031078	ND		13
Endrin	72208	ND		13
Endrin aldehyde	7421934	ND		13
Heptachlor	76448	12	M	6.8
Heptachlor	76448	13		6.8
Heptachlor epoxide	1024573	ND		6.8
Methoxychlor	72435	ND		68
Toxaphene	8001352	ND		680
alpha-BHC	319846	ND		6.8
alpha-Chlordane	5103719	ND		6.8
beta-BHC	319857	ND		6.8
delta-BHC	319868	ND		6.8
gamma-BHC (Lindane)	58899	ND		6.8
gamma-Chlordane	5103742	ND		6.8

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	108		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	191		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	2.3		0.50
Calcium	7440702	42200		20.0
Chromium	7440473	3.8		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	108		2.0
Iron	7439896	181		10.0
Lead	7439921	ND		5.0
Lead	7439921	2.5		0.30
Magnesium	7439954	922		20.0
Manganese	7439965	69.0		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	2.1	J	4.0
Potassium	7440097	2480		500
Selenium	7782492	0.51		0.50
Silver	7440224	ND		1.0
Sodium	7440235	2030		500
Thallium	7440280	ND	G	1.9
Vanadium	7440622	0.51	J	1.0
Zinc	7440666	133		2.0

Matrix : TISSUE

Client Description	SC-EE03-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	7000	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4,8-Dodecatriene, (E,E,E)-	24252855	3900	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Heptadecene	6765395	7900	2	2.0
1-Naphthylamine	134327	ND		1300
1-Octadecene	112889	1400	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	150	J	1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5,8,11,14-Eicosatetraenoic acid,^ethyl ester, (a!	1808260	18000	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	60000	2	2.0
9,17-Octadecadienal, (Z)-	56554359	13000	1	1.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	6500	2	2.0
9-Octadecynoic acid, methyl ester	1120327	5600	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesta-5,22-dien-3-ol, (3.beta.)-	34347289	5600	2	2.0

Matrix : TISSUE

Client Description	SC-EE03-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cholesterol	57885	84000	2	2.0
Chrysene	218019	ND		1300
Cyclohexane, 1,5-diethenyl-3-^methyl-2-methylene-!	74742351	15000	1z	1.0
Decanoic acid	334485	11000	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ergost-5-en-3-ol, (3.beta.)-	4651518	4500	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heneicosane, 11-cyclopentyl-	6703817	8300	2	2.0
Heptadecanoic acid	506127	10000	2	2.0
Heptadecanoic acid	506127	11000	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	69000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	6800	2z	2.0
Hexadecanoic acid, methyl ester	112390	5300	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	6400	2	2.0
Pentadecanoic acid	1002842	6900	2	2.0
Pentane, 3-methylene-	760214	8500	1	1.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	500	J	1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	9000	2	2.0
Thymidine	50895	2100	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EE03-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
1-Hexene, 4,5-dimethyl-	02379	9.7	1	1.0
2-Butanone (MEK)	078933	14		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Heptanone	02658	26	1	1.0
2-Hexanone	591786	ND		10
2-Nonanone	821556	16	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	48	1	1.0
Acetone	67641	1200	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bicyclo[3.2.0]hept-6-ene	00931	16	1	1.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	1.1	J	5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Cyclic Hydrocarbon	76904300	9.5		
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	24	1	1.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	32		5.0
Octane, 2,3,7-trimethyl-	09740	9.2	1	1.0
Oxygenated Hydrocarbon	5886108200	14		
Oxygenated Hydrocarbon	5886108200	9.8		
Propanal, 2-methyl-	00269	13	1	1.0
Styrene	100425	ND		5.0
Tetrachloroethene	127184	ND		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Tricyclo[3.2.1.02,4]octane, 8-^methylene-, (1.alp!	03294	42	1z	1.0
Undecane	1120214	56	1	1.0
Unknown	57200	13		
Unknown	57200	8.5		
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		13
4,4'-DDE	72559	ND		13
4,4'-DDT	50293	ND		13
Aldrin	309002	ND		6.8
Aroclor 1016	12674112	ND		130
Aroclor 1221	11104282	ND		130
Aroclor 1232	11141165	ND		130
Aroclor 1242	53469219	ND		130
Aroclor 1248	12672296	ND		130

Matrix : TISSUE

Client Description	SC-EE03-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	480	M	130
Aroclor 1254	11097691	490		130
Aroclor 1260	11096825	ND		130
Dieldrin	60571	ND		13
Endosulfan I	959988	ND		6.8
Endosulfan II	33213659	ND		13
Endosulfan sulfate	1031078	ND		13
Endrin	72208	ND		13
Endrin aldehyde	7421934	ND		13
Heptachlor	76448	12		6.8
Heptachlor epoxide	1024573	ND		6.8
Methoxychlor	72435	ND		68
Toxaphene	8001352	ND		680
alpha-BHC	319846	ND		6.8
alpha-Chlordane	5103719	ND		6.8
beta-BHC	319857	ND		6.8
delta-BHC	319868	ND		6.8
gamma-BHC (Lindane)	58899	ND		6.8
gamma-Chlordane	5103742	ND		6.8

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/15/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	76.1		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	0.72	J	1.0
Barium	7440393	140		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	1.1		0.50
Calcium	7440702	31700		20.0
Chromium	7440473	3.5		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	96.5		2.0
Iron	7439896	131		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.3		0.30
Magnesium	7439954	602		20.0
Manganese	7439965	31.7		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.3	J	4.0
Potassium	7440097	2280		500
Selenium	7782492	ND		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1870		500
Thallium	7440280	ND	G	1.4
Vanadium	7440622	0.45	J	1.0
Zinc	7440666	23.5		2.0

Matrix : TISSUE

Client Description	SC-EE04-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330
Aroclor 1254	11097691	1400		330
Aroclor 1254	11097691	1600		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	41		17
Heptachlor	76448	42		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/14/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	127		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	185		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	3.5		0.50
Calcium	7440702	65100		20.0
Chromium	7440473	4.9		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	82.0		2.0
Iron	7439896	218		10.0
Lead	7439921	ND		5.0
Lead	7439921	2.3		0.30
Magnesium	7439954	914		20.0
Manganese	7439965	67.3		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.8	J	4.0
Potassium	7440097	2260		500
Selenium	7782492	0.67		0.50
Silver	7440224	ND		1.0
Sodium	7440235	1900		500
Thallium	7440280	ND	G	2.1
Vanadium	7440622	0.51	J	1.0
Zinc	7440666	26.9		2.0

Matrix : TISSUE

Client Description	SC-EE05-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330
Aroclor 1248	12672296	ND		330
Aroclor 1254	11097691	470		330
Aroclor 1254	11097691	500		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	ND		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	42.7		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	51.0		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	4.8		0.50
Calcium	7440702	14100		20.0
Chromium	7440473	4.0		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	58.3		2.0
Iron	7439896	99.8		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.4	B	0.30
Magnesium	7439954	360		20.0
Manganese	7439965	39.5		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.4	J	4.0
Potassium	7440097	2340		500
Selenium	7782492	ND		0.50
Silver	7440224	1.3		1.0
Sodium	7440235	2660		500
Thallium	7440280	ND		1.6
Vanadium	7440622	ND		1.0
Zinc	7440666	24.5		2.0

Matrix : TISSUE

Client Description	SC-EE05-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
15-Tetracosenoic acid, methyl^ester, (Z)-	2733882	1300	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
2-Pyrrolidinone	616455	5500	2	2.0
3,3'-Dichlorobenzidine	91941	ND		2600
3-Decen-1-ol, (Z)-	10340224	31000	2	2.0
3-Heptadecen-5-yne, (Z)-	74744551	7300	2	2.0
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Penten-2-one, 4-methyl-	141797	6200	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
7-Oxabicyclo[4.1.0]heptane, 3-^oxyranyl-	106876	9000	1	1.0
9,12-Octadecadienoic acid (Z,Z)-	60333	2000	2	2.0
9,12-Octadecadienoic acid (Z,Z)-	60333	62000	2	2.0
9,17-Octadecadienal, (Z)-	56554359	8200	2	2.0
9-Eicosene, (E)-	74685293	4400	2	2.0
9-Hexadecenoic acid	2091294	30000	2	2.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	3600	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000

Matrix : TISSUE

Client Description	SC-EE05-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	56000	2	2.0
Chrysene	218019	ND		1300
Cyclobuta[1,2:3,4]dicyclooctene,^1,2,5,6,6a,6b,7,!	61277449	7100	2z	2.0
Cyclopentane, (3-methylbutyl)-	1005681	6700	2	2.0
Decanoic acid	334485	3100	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heneicosane, 11-cyclopentyl-	6703817	2600	2	2.0
Heptadecanoic acid	506127	3800	2	2.0
Heptadecanoic acid	506127	4100	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	51000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	8300	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	3400	2	2.0
Pentadecanoic acid, methyl ester	7132641	2400	1	1.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	4200	2	2.0
Vitamin E	59029	4500	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330

Matrix : TISSUE

Client Description	SC-EE05-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1248	12672296	ND		330
Aroclor 1254	11097691	500		330
Aroclor 1254	11097691	540		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	ND		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	51.1		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	123		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	4.4		0.50
Calcium	7440702	27400		20.0
Chromium	7440473	3.4		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	66.3		2.0
Iron	7439896	199		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.5		0.30
Magnesium	7439954	791		20.0
Manganese	7439965	75.7		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.2	J	4.0
Potassium	7440097	2310		500
Selenium	7782492	0.44	J	0.50
Silver	7440224	1.7		1.0
Sodium	7440235	1900		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.40	J	1.0
Zinc	7440666	27.5		2.0

Matrix : TISSUE

Client Description	SC-EE05-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Dichlorobenzene	541731	ND		1300
1,4-Cyclooctadiene, (Z,Z)-	16327223	6700	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Dodecyne	765037	7200	1	1.0
1-Naphthylamine	134327	ND		1300
10-Undecen-1-ol	112436	44000	1	1.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Penten-2-one, 4-methyl-	141797	5800	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5,8,11,14-Eicosatetraenoic,^methyl ester, (all-Z)-	2566894	6900	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9-Octadecenoic acid (Z)-, methyl^ester	112629	4200	2	2.0
9-Octadecenoic acod (Z)-, 2,3-^dihydroxypropyl es!	111035	13000	2z	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	73000	2	2.0
Chrysene	218019	ND		1300
Cyclopentadecanone, 2-hydroxy-	4727188	1800	2	2.0

Matrix : TISSUE

Client Description	SC-EE05-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanamide, N,N-bis(2-hydroxyethyl)-	120401	4900	2	2.0
Ethanol, 2-(9,12-octadecadienyloxy)-,^(Z,Z)-	17367087	8700	2	2.0
Ethanol, 2-(tetradecyloxy)-	2136701	4100	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	3000	2	2.0
Heptadecanoic acid	506127	6900	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanedioic acid	505544	3000	1	1.0
Hexadecanoic acid	57103	38000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Naphthalene, 1,2,3,4-tetrachloro-	20020024	1400	2	2.0
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	5300	2	2.0
Oleic Acid	112801	5300	2	2.0
Oleic Acid	112801	59000	1	1.0
Oxacycloheptadecan-2-one	109295	34000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	3800	2	2.0
Pentanoic acid	109524	4200	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	4400	2	2.0
Vitamin E	59029	8000	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		33
4,4'-DDE	72559	ND		33
4,4'-DDT	50293	ND		33
Aldrin	309002	ND		17
Aroclor 1016	12674112	ND		330
Aroclor 1221	11104282	ND		330
Aroclor 1232	11141165	ND		330
Aroclor 1242	53469219	ND		330

Matrix : TISSUE

Client Description	SC-EE05-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1248	12672296	ND		330
Aroclor 1254	11097691	800		330
Aroclor 1260	11096825	ND		330
Dieldrin	60571	ND		33
Endosulfan I	959988	ND		17
Endosulfan II	33213659	ND		33
Endosulfan sulfate	1031078	ND		33
Endrin	72208	ND		33
Endrin aldehyde	7421934	ND		33
Heptachlor	76448	ND		17
Heptachlor epoxide	1024573	ND		17
Methoxychlor	72435	ND		170
Toxaphene	8001352	ND		1700
alpha-BHC	319846	ND		17
alpha-Chlordane	5103719	ND		17
beta-BHC	319857	ND		17
delta-BHC	319868	ND		17
gamma-BHC (Lindane)	58899	ND		17
gamma-Chlordane	5103742	ND		17

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	74.8		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND	G	1.0
Barium	7440393	174		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	4.6		0.50
Calcium	7440702	42400		20.0
Chromium	7440473	2.7		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	67.8		2.0
Iron	7439896	188		10.0
Lead	7439921	ND		5.0
Lead	7439921	2.0	B	0.30
Magnesium	7439954	902		20.0
Manganese	7439965	120		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	2.0	J	4.0
Potassium	7440097	2330		500
Selenium	7782492	0.98		0.50
Silver	7440224	0.83	J	1.0
Sodium	7440235	2010		500
Thallium	7440280	ND	G	1.9
Vanadium	7440622	0.32	J	1.0
Zinc	7440666	26.1		2.0

Matrix : TISSUE

Client Description	SC-EW01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Hexadecanol	36653824	4000	2	2.0
1-Naphthylamine	134327	ND		1300
10-Heptadecen-8-ynoic acid,^methyl ester, (E)-	16714855	8800	2	2.0
10-Undecen-4-one, 2,2,6,6-^tetramethyl-	42565491	9400	1	1.0
16-Octadecenal	56554871	1800	2	2.0
2(1H)-Naphthalenone, octahydro-,^trans-	16021082	39000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadien-1-ol	1577522	5000	2	2.0
9-Hexadecenoic acid	2091294	30000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	97000	2	2.0
Chrysene	218019	ND		1300
Cyclohexane, 1,5-diethenyl-3-^methyl-2-methylene-!	74742351	7900	2z	2.0

Matrix : TISSUE

Client Description	SC-EW01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyclopentadecanone, 2-hydroxy-	4727188	3200	2	2.0
Decanoic acid	334485	7200	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanoic acid	143077	11000	2	2.0
Ergosta-5,22-dien-3-ol,^(3.beta.,^22E,24S)-	17472785	5800	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	3800	2	2.0
Heptadecanoic acid	506127	4300	2	2.0
Heptadecanoic acid	506127	5900	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	30000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	7900	2	2.0
Oleic Acid	112801	55000	1	1.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Pentadecanoic acid	1002842	2600	2	2.0
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	6000	1	1.0
Tetradecanoic acid	544638	6700	2	2.0
Tridecanoic acid	638539	10000	2	2.0
Tridecanoic acid	638539	4800	2	2.0
Vitamin E	59029	6900	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EW01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	17		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
4,7-Methano-1H-indene, octahydro-	05691	120	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-Butyl-1,4-cycloheptadiene	08376	37	1	1.0
Acetone	67641	2800	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bicyclo[3.1.0]hexane, 4-methylene^-1-(1-methyleth!	05645	20	1z	1.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	1.1	J	5.0
Chloromethane	74873	ND		10
Cyclopentane, methyl-	00547	12	1	1.0
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	35	1	1.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	73	1	1.0
Methylene chloride	75092	61		5.0
Oxygenated Hydrocarbon	5886108200	13		
Oxygenated Hydrocarbon	5886108200	26		
Pentane	109660	23	1	1.0
Propanal, 2-methyl-	00269	19	1	1.0
Siloxane	73400	5.9		
Styrene	100425	ND		5.0
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	19		5.0
Toluene	108883	2.0	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Tricyclo[3.2.1.02,4]octane, 8-^methylene-, (1.alp!	03294	69	1z	1.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		66
4,4'-DDE	72559	ND		66
4,4'-DDT	50293	ND		66
Aldrin	309002	ND		34
Aroclor 1016	12674112	ND		660
Aroclor 1221	11104282	ND		660
Aroclor 1232	11141165	ND		660
Aroclor 1242	53469219	ND		660
Aroclor 1248	12672296	ND		660

Matrix : TISSUE

Client Description	SC-EW01-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	2600		660
Aroclor 1254	11097691	3300		660
Aroclor 1260	11096825	ND		660
Dieldrin	60571	ND		66
Endosulfan I	959988	ND		34
Endosulfan II	33213659	ND		66
Endosulfan sulfate	1031078	ND		66
Endrin	72208	ND		66
Endrin aldehyde	7421934	ND		66
Heptachlor	76448	ND		34
Heptachlor epoxide	1024573	ND		34
Methoxychlor	72435	ND		340
Toxaphene	8001352	ND		3400
alpha-BHC	319846	ND		34
alpha-Chlordane	5103719	ND		34
beta-BHC	319857	ND		34
delta-BHC	319868	ND		34
gamma-BHC (Lindane)	58899	ND		34
gamma-Chlordane	5103742	ND		34

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	30.6		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	19.7		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	2.9		0.50
Calcium	7440702	7030		20.0
Chromium	7440473	2.7		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	50.5		2.0
Iron	7439896	50.5		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.91	B	0.30
Magnesium	7439954	337		20.0
Manganese	7439965	14.2		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2550		500
Selenium	7782492	ND		0.50
Silver	7440224	0.65	J	1.0
Sodium	7440235	1940		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.30	J	1.0
Zinc	7440666	20.1		2.0

Matrix : TISSUE

Client Description	SC-EW01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	3300	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Cyclononadiene	27538121	14000	1	1.0
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
10-Heptadecen-8-ynoic acid,^methyl ester, (E)-	16714855	47000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Bicyclo[4.3.1]decan-10-one	20440215	27000	1	1.0
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
8-Oxabicyclo[5.1.0]octane	286453	8100	1	1.0
9,17-Octadecadienal, (Z)-	56554359	8300	2	2.0
9-Hexadecenoic acid	2091294	17000	2	2.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	4500	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesta-5,22-dien-3-ol, (3.beta.)-	34347289	4400	2	2.0
Cholesterol	57885	74000	2	2.0

Matrix : TISSUE

Client Description	SC-EW01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	ND		1300
Cyclohexane, 1,5-diethenyl-3-^methyl-2-methylene-!	74742351	30000	2z	2.0
Decanoic acid	334485	5700	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	6300	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	27000	2	2.0
Hexadecanoic acid	57103	3600	1	1.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	7700	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	26000	2	2.0
Oleic Acid	112801	18000	2	2.0
Oleic Acid	112801	180000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	3600	2	2.0
Tetradecanoic acid	544638	3700	2	2.0
Tridecanoic acid	638539	3300	2	2.0
Tridecanoic acid	638539	7200	2	2.0
Undecane	1120214	3800	1	1.0
Vitamin E	59029	3500	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	660	J	1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EW01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
1,3,7-Octatriene, 3,7-dimethyl-	05714	3.7	1	1.0
2-Butanone (MEK)	078933	15		10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
2-Nonanone	06816	9.8	1	1.0
3-[(Z)-1-Butenyl]-4-^vinylcyclopentene	07938	13	1	1.0
4,7-Methano-1H-indene, octahydro-	05691	98	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
Acetone	67641	1100	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bicyclo[4.1.0] heptane, 7-methylene-	01917	5.1	1	1.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	1.0	J	5.0
Chloromethane	74873	ND		10
Cyclopentane, methyl-	00547	7.5	1	1.0
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	29	1	1.0
Iodomethane	74884	ND		5.0
Methylene chloride	75092	24		5.0
Oxygenated Hydrocarbon	5886108200	12		
Oxygenated Hydrocarbon	5886108200	27		
Propanal, 2-methyl-	00269	16	1	1.0
Styrene	100425	ND		5.0
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	9.2		5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		66
4,4'-DDE	72559	ND		66
4,4'-DDT	50293	ND		66
Aldrin	309002	ND		34
Aroclor 1016	12674112	ND		660
Aroclor 1221	11104282	ND		660
Aroclor 1232	11141165	ND		660
Aroclor 1242	53469219	ND		660
Aroclor 1248	12672296	ND		660

Matrix : TISSUE

Client Description	SC-EW01-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	2100		660
Aroclor 1254	11097691	2600		660
Aroclor 1260	11096825	ND		660
Dieldrin	60571	ND		66
Endosulfan I	959988	ND		34
Endosulfan II	33213659	ND		66
Endosulfan sulfate	1031078	ND		66
Endrin	72208	ND		66
Endrin aldehyde	7421934	ND		66
Heptachlor	76448	ND		34
Heptachlor epoxide	1024573	ND		34
Methoxychlor	72435	ND		340
Toxaphene	8001352	ND		3400
alpha-BHC	319846	ND		34
alpha-Chlordane	5103719	ND		34
beta-BHC	319857	ND		34
delta-BHC	319868	ND		34
gamma-BHC (Lindane)	58899	ND		34
gamma-Chlordane	5103742	ND		34

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	25.6		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	50.2		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	3.3		0.50
Calcium	7440702	17600		20.0
Chromium	7440473	0.99	J	1.0
Cobalt	7440484	ND		1.0
Copper	7440508	65.3		2.0
Iron	7439896	50.0		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.81	B	0.30
Magnesium	7439954	376		20.0
Manganese	7439965	19.4		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.0	J	4.0
Potassium	7440097	1990		500
Selenium	7782492	ND		0.50
Silver	7440224	0.82	J	1.0
Sodium	7440235	1890		500
Thallium	7440280	ND		1.6
Vanadium	7440622	ND		1.0
Zinc	7440666	23.4		2.0

Matrix : TISSUE

Client Description	SC-EW01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,13-Tetradecadiene	21964498	15000	2	2.0
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	31000	2	2.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1,4-Methanobenzocyclodecene,^1,2,3,4,4a,5,8,9,12,!	74708739	4100	2z	2.0
1,4-Undecadiene, (E)-	55976131	47000	2	2.0
1-Chloronaphthalene	90131	ND		10000
1-Naphthylamine	134327	ND		1300
10-Heptadecen-8-ynoic acid,^methyl ester, (E)-	16714855	38000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	110000	2	2.0
9,17-Octadecadienal, (Z)-	56554359	3200	2	2.0
9-Octadecenoic acid (Z)-, methyl^ester	112629	3200	2	2.0
9-Oxabicyclo[6.1.0]nonane	286624	3000	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Bicyclo[5.1.0]oct-3-ene	659847	3900	2	2.0
Butyl benzyl phthalate	85687	ND		1300

Matrix : TISSUE

Client Description	SC-EW01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cholesterol	57885	66000	2	2.0
Chrysene	218019	ND		1300
Cyclotetradecane	295170	21000	2	2.0
Decanoic acid	334485	4600	2	2.0
Decanoic acid	334485	7400	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanoic acid	143077	3000	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Glycerin	56815	2300	2	2.0
Heptadecanoic acid	506127	3200	2	2.0
Heptadecanoic acid	506127	4400	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	28000	2	2.0
Hexadecanoic acid, 2-hydroxy-1-^(hydroxymethyl)et!	23470000	4700	2z	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	25000	2	2.0
Oleic Acid	112801	57000	2	2.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	4900	2	2.0
Thymidine	50895	4200	2	2.0
Urea	57136	3600	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EW01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	8.8	J	10
2-Chloroethyl vinyl ether	110758	ND		--
2-Hexanone	591786	ND		10
2-Nonanone	06816	14	1	1.0
4,7-Methano-1H-indene, octahydro-	05691	68	1	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-Butyl-1,4-cycloheptadiene	08376	17	1	1.0
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	35	1	1.0
Acetone	67641	1400	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	1.0	J	5.0
Chloromethane	74873	ND		10
Cyclopentane, methyl-	00547	14	1	1.0
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		--
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexane	110543	55	1	1.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	57	1	1.0
Methylene chloride	75092	70		5.0
Oxygenated Hydrocarbon	5886108200	6.6		
Pentane	109660	23	1	1.0
Styrene	100425	ND		5.0
TID Compound 10	9382201	ND		
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	17		5.0
Toluene	108883	1.6	J	5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		66
4,4'-DDE	72559	ND		66
4,4'-DDT	50293	ND		66
Aldrin	309002	ND		34
Aroclor 1016	12674112	ND		660
Aroclor 1221	11104282	ND		660
Aroclor 1232	11141165	ND		660
Aroclor 1242	53469219	ND		660
Aroclor 1248	12672296	ND		660

Matrix : TISSUE

Client Description	SC-EW01-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	3100		660
Aroclor 1254	11097691	3400		660
Aroclor 1260	11096825	ND		660
Dieldrin	60571	ND		66
Endosulfan I	959988	ND		34
Endosulfan II	33213659	ND		66
Endosulfan sulfate	1031078	ND		66
Endrin	72208	ND		66
Endrin aldehyde	7421934	ND		66
Heptachlor	76448	ND		34
Heptachlor epoxide	1024573	ND		34
Methoxychlor	72435	ND		340
Toxaphene	8001352	ND		3400
alpha-BHC	319846	ND		34
alpha-Chlordane	5103719	ND		34
beta-BHC	319857	ND		34
delta-BHC	319868	ND		34
gamma-BHC (Lindane)	58899	ND		34
gamma-Chlordane	5103742	ND		34

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	36.6		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	29.6		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	1.7		0.50
Calcium	7440702	9020		20.0
Chromium	7440473	1.0		1.0
Cobalt	7440484	ND		1.0
Copper	7440508	62.2		2.0
Iron	7439896	79.4		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.80	B	0.30
Magnesium	7439954	336		20.0
Manganese	7439965	20.1		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2260		500
Selenium	7782492	ND		0.50
Silver	7440224	0.77	J	1.0
Sodium	7440235	1720		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.45	J	1.0
Zinc	7440666	22.6		2.0

Matrix : TISSUE

Client Description	SC-EW02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene, (Z,Z)-	3806595	18000	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Heptadecanol	1454859	10000	2	2.0
1-Hexadecanol, 3,7,11,15-^tetramethyl-	645727	3900	2	2.0
1-Naphthylamine	134327	ND		1300
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Penten-2-one, 4-methyl-	141797	11000	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5,8,11,14-Eicosatetraenoic,^methyl ester, (all-Z)-	2566894	23000	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	3100	2	2.0
9,17-Octadecadienal, (Z)-	56554359	4500	2	2.0
9-Hexadecenoic acid	2091294	3300	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	3800	J	10000
Benzyl alcohol	100516	ND		1300
Bicyclo[3.1.0]hexan-3-one	471158	70000	1	1.0
Butyl benzyl phthalate	85687	ND		1300
Cholesterol	57885	80000	2	2.0

Matrix : TISSUE

Client Description	SC-EW02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Chrysene	218019	ND		1300
Cyclohexane, 1-(1,5-dimethylhexyl)-^4-(4-methylpe!	56009202	3700	1z	1.0
Cyclopentadecanone, 2-hydroxy-	4727188	2700	2	2.0
Cyclopropane, 1,1-dimethyl-2-(2-^methyl-2-propeny!	69147031	12000	1z	1.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanoic acid	143077	7100	2	2.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	4100	2	2.0
Heptadecanoic acid	506127	6600	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	30000	2	2.0
Hexadecanoic acid	57103	7000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Nonadecanoic acid	646300	2800	2	2.0
Octadecanoic acid	57114	19000	2	2.0
Oleic Acid	112801	120000	1	1.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	7000	2	2.0
Thymidine	50895	3800	2	2.0
Tridecanoic acid	638539	17000	2	2.0
Tridecanoic acid	638539	7100	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		66
4,4'-DDE	72559	ND		66
4,4'-DDT	50293	ND		66
Aldrin	309002	ND		34
Aroclor 1016	12674112	ND		660
Aroclor 1221	11104282	ND		660
Aroclor 1232	11141165	ND		660
Aroclor 1242	53469219	ND		660

Matrix : TISSUE

Client Description	SC-EW02-BT-201
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1248	12672296	ND		660
Aroclor 1254	11097691	1500		660
Aroclor 1254	11097691	1600		660
Aroclor 1260	11096825	ND		660
Dieldrin	60571	ND		66
Endosulfan I	959988	ND		34
Endosulfan II	33213659	ND		66
Endosulfan sulfate	1031078	ND		66
Endrin	72208	ND		66
Endrin aldehyde	7421934	ND		66
Heptachlor	76448	ND		34
Heptachlor epoxide	1024573	ND		34
Methoxychlor	72435	ND		340
Toxaphene	8001352	ND		3400
alpha-BHC	319846	ND		34
alpha-Chlordane	5103719	ND		34
beta-BHC	319857	ND		34
delta-BHC	319868	ND		34
gamma-BHC (Lindane)	58899	ND		34
gamma-Chlordane	5103742	ND		34

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	94.9		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	117		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	2.9		0.50
Calcium	7440702	30100		20.0
Chromium	7440473	2.3		1.0
Cobalt	7440484	1.0		1.0
Copper	7440508	58.2		2.0
Iron	7439896	204		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.6	B	0.30
Magnesium	7439954	556		20.0
Manganese	7439965	376		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	1.9	J	4.0
Potassium	7440097	2820		500
Selenium	7782492	0.85		0.50
Silver	7440224	0.43	J	1.0
Sodium	7440235	2320		500
Thallium	7440280	ND	G	2.7
Vanadium	7440622	0.73	J	1.0
Zinc	7440666	32.4		2.0

Matrix : TISSUE

Client Description	SC-EW02-BT-202
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		66
4,4'-DDE	72559	ND		66
4,4'-DDT	50293	ND		66
Aldrin	309002	ND		34
Aroclor 1016	12674112	ND		660
Aroclor 1221	11104282	ND		660
Aroclor 1232	11141165	ND		660
Aroclor 1242	53469219	ND		660
Aroclor 1248	12672296	ND		660
Aroclor 1254	11097691	1800		660
Aroclor 1254	11097691	2000		660
Aroclor 1260	11096825	ND		660
Dieldrin	60571	ND		66
Endosulfan I	959988	ND		34
Endosulfan II	33213659	ND		66
Endosulfan sulfate	1031078	ND		66
Endrin	72208	ND		66
Endrin aldehyde	7421934	ND		66
Heptachlor	76448	ND		34
Heptachlor epoxide	1024573	ND		34
Methoxychlor	72435	ND		340
Toxaphene	8001352	ND		3400
alpha-BHC	319846	ND		34
alpha-Chlordane	5103719	ND		34
beta-BHC	319857	ND		34
delta-BHC	319868	ND		34
gamma-BHC (Lindane)	58899	ND		34
gamma-Chlordane	5103742	ND		34

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	76.6		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	138		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	1.6		0.50
Calcium	7440702	37300		20.0
Chromium	7440473	0.93	J	1.0
Cobalt	7440484	ND		1.0
Copper	7440508	51.1		2.0
Iron	7439896	121		10.0
Lead	7439921	ND		5.0
Lead	7439921	0.85	B	0.30
Magnesium	7439954	666		20.0
Manganese	7439965	65.6		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2320		500
Selenium	7782492	1.1		0.50
Silver	7440224	0.38	J	1.0
Sodium	7440235	1760		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.32	J	1.0
Zinc	7440666	22.9		2.0

Matrix : TISSUE

Client Description	SC-EW02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 9010/9012 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cyanide	5955700	ND		0.50

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2,4,5-Tetrachloro-^benzene	95943	ND		1300
1,2,4-Trichlorobenzene	120821	ND		1300
1,2-Dichlorobenzene	95501	ND		1300
1,3-Cyclooctadiene	1700103	20000	1	1.0
1,3-Dichlorobenzene	541731	ND		1300
1,4-Dichlorobenzene	106467	ND		1300
1-Chloronaphthalene	90131	ND		10000
1-Heptadecanol	1454859	10000	2	2.0
1-Naphthylamine	134327	ND		1300
1-Tetradecanol	112721	16000	2	2.0
2(1H)-Naphthalenone, octahydro-,^trans-	16021082	29000	2	2.0
2,3,4,6-Tetrachlorophenol	58902	ND		6400
2,4,5-Trichlorophenol	95954	ND		6400
2,4,6-Trichlorophenol	88062	ND		1300
2,4-Dichlorophenol	120832	ND		1300
2,4-Dimethylphenol	105679	ND		1300
2,4-Dinitrophenol	51285	ND		6400
2,4-Dinitrotoluene	121142	ND		1300
2,6-Dichlorophenol	87650	ND		1300
2,6-Dinitrotoluene	606202	ND		1300
2-Chloronaphthalene	91587	ND		1300
2-Chlorophenol	95578	ND		1300
2-Docosene	1599673	2500	2	2.0
2-Methylnaphthalene	91576	ND		1300
2-Methylphenol	95487	ND		1300
2-Naphthylamine	91598	ND		1300
2-Nitrophenol	88755	ND		1300
2-Picoline	109068	ND		1300
3,3'-Dichlorobenzidine	91941	ND		2600
3-Methylcholanthrene	56495	ND		1300
3-Nitroaniline	99092	ND		6400
3-Nonen-1-ol, (E)-	10339614	6600	2	2.0
3/4-Methylphenol	7820600	ND		1300
4,6-Dinitro-^2-methylphenol	534521	ND		6400
4-Aminobiphenyl	92671	ND		1300
4-Bromophenyl^phenyl ether	101553	ND		1300
4-Chloro-3-methylphenol	59507	ND		1300
4-Chloroaniline	106478	ND		1300
4-Chlorophenyl ^phenyl ether	7005723	ND		1300
4-Nitroaniline	100016	ND		6400
4-Nitrophenol	100027	ND		6400
5,8,11,14-Eicosatetraenoic,^methyl ester, (all-Z)-	2566894	29000	2	2.0
7,12-Dimethylbenz(a)-^anthracene	57976	ND		1300
9,12-Octadecadienoic acid (Z,Z)-	60333	86000	2	2.0
9,17-Octadecadienal, (Z)-	56554359	2800	2	2.0
Acenaphthene	83329	ND		1300
Acenaphthylene	208968	ND		1300
Acetophenone	98862	ND		1300
Aniline	62533	ND		1300
Anthracene	120127	ND		1300
Azobenzene	103333	ND		10000
Benzidine	92875	ND		10000
Benzo(a)anthracene	56553	ND		1300
Benzo(a)pyrene	50328	ND		1300
Benzo(b)fluoranthene	205992	ND		1300
Benzo(g,h,i)perylene	191242	ND		1300
Benzo(k)fluoranthene	207089	ND		1300
Benzoic acid	65850	ND		10000
Benzyl alcohol	100516	ND		1300
Butyl benzyl phthalate	85687	ND		1300
Cholesta-5,22-dien-3-ol, (3.beta.)-	34347289	3900	2	2.0

Matrix : TISSUE

Client Description	SC-EW02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8270 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Cholesterol	57885	34000	2	2.0
Chrysene	218019	ND		1300
Decanoic acid	334485	5900	2	2.0
Di-n-butyl phthalate	84742	ND		1300
Di-n-octyl phthalate	117840	ND		1300
Dibenz(a,h)anthracene	53703	ND		1300
Dibenz(a,j)acridine	224420	ND		--
Dibenzofuran	132649	ND		1300
Diethyl phthalate	84662	ND		1300
Dimethyl phthalate	131113	ND		1300
Diphenylamine	122394	ND		1300
Dodecanamide, N,N-bis(2-hydroxyethyl)-	120401	7100	2	2.0
Dodecanoic acid	143077	7600	1	1.0
Ethane, isocyano-	624793	3200	1	1.0
Ethyl methanesulfonate	62500	ND		1300
Fluoranthene	206440	ND		1300
Fluorene	86737	ND		1300
Heptadecanoic acid	506127	3600	2	2.0
Heptadecanoic acid	506127	5700	2	2.0
Hexachlorobenzene	118741	ND		1300
Hexachlorobutadiene	87683	ND		1300
Hexachlorocyclopentadiene	77474	ND		1300
Hexachloroethane	67721	ND		1300
Hexadecanoic acid	57103	28000	2	2.0
Indeno(1,2,3-cd)pyrene	193395	ND		1300
Isophorone	78591	ND		1300
Methyl methanesulfonate	66273	ND		1300
N-Nitroso-di-^n-propylamine	621647	ND		1300
N-Nitroso-di-n-butylamine	924163	ND		1300
N-Nitrosodiphenylamine	86306	ND		1300
N-Nitrosopiperidine	100754	ND		1300
Naphthalene	91203	ND		1300
Nitrobenzene	98953	ND		1300
Octadecanoic acid	57114	19000	2	2.0
Oleic Acid	112801	3000	1	1.0
Pentachlorobenzene	608935	ND		1300
Pentachloronitrobenzene	82688	ND		6400
Pentachlorophenol	87865	ND		6400
Phenacetin	62442	ND		1300
Phenanthrene	85018	ND		1300
Phenol	108952	ND		1300
Pronamide	23950585	ND		1300
Pyrene	129000	ND		1300
Tetradecanoic acid	544638	3000	2	2.0
Tetradecanoic acid	544638	4100	2	2.0
Thymidine	50895	2400	2	2.0
Tridecanoic acid	638539	3200	2	2.0
Vitamin E	59029	4700	2	2.0
a,a-Dimethylphenethyl-^amine	122098	ND		1300
bis(2-Chloroethoxy)^methane	111911	ND		1300
bis(2-Chloroethyl) ether	111444	ND		1300
bis(2-Chloroisopropyl)^ether	108601	ND		1300
bis(2-Ethylhexyl)^phthalate	117817	ND		1300
p-Dimethylaminoazobenzene	60117	ND		1300

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,1,1,2-Tetrachloroethane	630206	ND		5.0
1,1,1-Trichloroethane	71556	ND		5.0
1,1,2,2-Tetrachloroethane	79345	ND		5.0
1,1,2-Trichloroethane	79005	ND		5.0
1,1-Dichloroethane	75343	ND		5.0
1,1-Dichloroethene	75354	ND		5.0
1,2,3-Trichloropropane	96184	ND		5.0
1,2-Dichloroethane	107062	ND		5.0

Matrix : TISSUE

Client Description	SC-EW02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8240 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
1,2-Dichloropropane	78875	ND		5.0
2-Butanone (MEK)	078933	28		10
2-Chloroethyl vinyl ether	110758	ND		–
2-Hexanone	591786	ND		10
2-Nonanone	06816	5.9	I	1.0
4-Methyl-2-pentanone ^(MIBK)	00108101	ND		10
6-Butyl-1,4-cycloheptadiene	08376	13	I	1.0
6-[(Z)-1-Butenyl]-1,4-cycloheptadiene	07946	22	I	1.0
Acetone	67641	610	E	10
Acrolein	107028	ND		100
Acrylonitrile	107131	ND		100
Benzene	71432	ND		5.0
Bromodichloromethane	75274	ND		5.0
Bromoform	75252	ND		5.0
Bromomethane	74839	ND		10
Butanal, 3-methyl-	00637	16	I	1.0
Butanal, 3-methyl-	00637	17	I	1.0
Carbon disulfide	75150	ND		5.0
Carbon tetrachloride	56235	ND		5.0
Chlorobenzene	108907	ND		5.0
Chloroethane	75003	ND		10
Chloroform	67663	ND		5.0
Chloromethane	74873	ND		10
Dibromochloromethane	124481	ND		5.0
Dibromomethane	74953	ND		5.0
Dichlorodifluoromethane	75718	ND		20
Ethanol	64175	ND		–
Ethyl methacrylate	97632	ND		20
Ethylbenzene	100414	ND		5.0
Hexanal	66251	3.1	I	1.0
Hexane	110543	18	I	1.0
Iodomethane	74884	ND		5.0
Methanamine, N,N-dimethyl-	00106	11	I	1.0
Methylene chloride	75092	15		5.0
Propanal, 2-methyl-	00269	19	I	1.0
Styrene	100425	ND		5.0
TID Compound 11	9382401	ND		
TID Compound 12	9382501	ND		
TID Compound 13	9382601	ND		
TID Compound 14	9382701	ND		
TID Compound 15	9382800	ND		
Tetrachloroethene	127184	2.7	J	5.0
Toluene	108883	ND		5.0
Trichloroethene	79016	ND		5.0
Trichlorofluoromethane	75694	ND		5.0
Undecane	09747	65	I	1.0
Vinyl acetate	108054	ND		10
Vinyl chloride	75014	ND		10
Xylenes (total)	1330207	ND		5.0
cis-1,3-Dichloropropene	10061015	ND		5.0
trans-1,2-Dichloroethene	156605	ND		5.0
trans-1,3-Dichloropropene	10061026	ND		5.0
trans-1,4-Dichloro-2-butene	110576	ND		5.0

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
4,4'-DDD	72548	ND		66
4,4'-DDE	72559	ND		66
4,4'-DDT	50293	ND		66
Aldrin	309002	ND		34
Aroclor 1016	12674112	ND		660
Aroclor 1221	11104282	ND		660
Aroclor 1232	11141165	ND		660
Aroclor 1242	53469219	ND		660
Aroclor 1248	12672296	ND		660

Matrix : TISSUE

Client Description	SC-EW02-BT-203
Sample Depth in feet bgs (Top, Base)	(0.00,0.00)

Analytical Test Method : 8080 **Units :** ug/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aroclor 1254	11097691	1400		660
Aroclor 1254	11097691	1600		660
Aroclor 1260	11096825	ND		660
Dieldrin	60571	ND		66
Endosulfan I	959988	ND		34
Endosulfan II	33213659	ND		66
Endosulfan sulfate	1031078	ND		66
Endrin	72208	ND		66
Endrin aldehyde	7421934	ND		66
Heptachlor	76448	ND		34
Heptachlor epoxide	1024573	ND		34
Methoxychlor	72435	ND		340
Toxaphene	8001352	ND		3400
alpha-BHC	319846	ND		34
alpha-Chlordane	5103719	ND		34
beta-BHC	319857	ND		34
delta-BHC	319868	ND		34
gamma-BHC (Lindane)	58899	ND		34
gamma-Chlordane	5103742	ND		34

Analytical Test Method : 7471 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Mercury	7439976	ND		0.10

Analytical Test Method : 6010 **Units :** mg/kg **Data Collected :** 06/13/95

Compound Name	Cas Number	Result	Footnotes	Detection Limit
Aluminum	7429905	66.5		10.0
Antimony	7440360	ND		6.0
Arsenic	7440382	ND		1.0
Barium	7440393	72.9		1.0
Beryllium	7440417	ND		0.20
Cadmium	7440439	3.4		0.50
Calcium	7440702	25200		20.0
Chromium	7440473	0.84	J	1.0
Cobalt	7440484	ND		1.0
Copper	7440508	75.6		2.0
Iron	7439896	116		10.0
Lead	7439921	ND		5.0
Lead	7439921	1.1		0.30
Magnesium	7439954	443		20.0
Manganese	7439965	32.1		1.0
Molybdenum	7439987	ND		2.0
Nickel	7440020	ND		4.0
Potassium	7440097	2500		500
Selenium	7782492	1.1		0.50
Silver	7440224	0.60	J	1.0
Sodium	7440235	2410		500
Thallium	7440280	ND		1.6
Vanadium	7440622	0.35	J	1.0
Zinc	7440666	26.9		2.0

APPENDIX E

DATA VALIDATION REPORTS

Section A
1994 Data Validation Report

Section B
1995 Data Validation Report

Section A

1994 Data Validation Report

TABLE OF CONTENTS

Section			Page
1.0	INTRODUCTION		1-1
2.0	PARCC PARAMETERS		2-1
	2.1 PRECISION		2-1
	2.2 ACCURACY		2-1
		2.2.1 Matrix Spike Percent Recovery	2-1
		2.2.2 Surrogate Percent Recovery	2-2
		2.2.3 Duplicate Control Samples	2-2
		2.2.4 Calibrations	2-2
		2.2.4.1 Initial Calibrations	2-2
		2.2.4.2 Continuing Calibrations	2-3
	2.3 REPRESENTATIVENESS		2-3
		2.3.1 Holding Times	2-3
		2.3.2 Blanks	2-3
		2.3.2.1 Method Blanks	2-3
		2.3.2.2 Field Blanks (Rinsates)	2-4
		2.3.2.3 Trip Blanks	2-4
		2.3.3 Field Duplicates	2-4
	2.4 COMPLETENESS		2-4
	2.5 COMPARABILITY		2-4
	2.6 SENSITIVITY		2-5
3.0	VOLATILE ORGANIC COMPOUNDS		3-1
	3.1 PRECISION		3-1
		3.1.1 Matrix Spike/Matrix Spike Duplicate	3-1
		3.1.2 Duplicate Control Samples	3-1
	3.2 ACCURACY		3-1
		3.2.1 Matrix Spike Percent Recovery	3-1
		3.2.2 Surrogate Percent Recovery	3-2

Section			Page
	3.2.3	Single and Duplicate Control Samples	3-2
	3.2.4	Calibrations	3-2
		3.2.4.1 Initial Calibrations	3-2
		3.2.4.2 Continuing Calibrations	3-3
	3.2.5	Internal Standards	3-3
3.3	REPRESENTATIVENESS		3-3
	3.3.1	Holding Times	3-3
	3.3.2	Blanks	3-3
		3.3.2.1 Method Blanks	3-3
		3.3.2.2 Field Blanks (Rinsates)	3-4
		3.3.2.3 Trip Blanks	3-5
	3.3.3	Field Duplicates	3-5
3.4	COMPLETENESS		3-5
3.5	COMPARABILITY		3-5
3.6	SENSITIVITY		3-6
	3.6.1	Dilutions	3-6
	3.6.2	Quantitation Limits	3-6
4.0	SEMIVOLATILE ORGANIC COMPOUNDS		4-1
4.1	PRECISION		4-1
	4.1.1	Matrix Spike/Matrix Spike Duplicate	4-1
	4.1.2	Duplicate Control Samples	4-1
4.2	ACCURACY		4-1
	4.2.1	Matrix Spike Percent Recovery	4-2
	4.2.2	Surrogate Percent Recovery	4-2
	4.2.3	Single and Duplicate Control Samples	4-2
	4.2.4	Calibrations	4-2
		4.2.4.1 Initial Calibrations	4-2
		4.2.4.2 Continuing Calibrations	4-3
	4.2.5	Internal Standards	4-3

Section			Page
	4.3	REPRESENTATIVENESS	4-3
		4.3.1 Holding Times	4-3
		4.3.2 Blanks	4-3
		4.3.2.1 Method Blanks	4-3
		4.3.2.2 Field Blanks (Rinsates)	4-4
		4.3.2.3 Trip Blanks	4-4
		4.3.3 Field Duplicates	4-4
	4.4	COMPLETENESS	4-5
	4.5	COMPARABILITY	4-5
	4.6	SENSITIVITY	4-5
		4.6.1 Dilutions	4-5
		4.6.2 Quantitation Limits	4-5
5.0		PESTICIDE/PCB COMPOUNDS	5-1
	5.1	PRECISION	5-1
		5.1.1 Matrix Spike/Matrix Spike Duplicate	5-1
		5.1.2 Duplicate Control Samples	5-1
	5.2	ACCURACY	5-1
		5.2.1 Matrix Spike Percent Recovery	5-1
		5.2.2 Surrogate Percent Recovery	5-1
		5.2.3 Duplicate Control Samples	5-2
		5.2.4 Calibrations	5-2
		5.2.4.1 Initial Calibrations	5-2
		5.2.4.2 Continuing Calibrations	5-2
	5.3	REPRESENTATIVENESS	5-2
		5.3.1 Holding Times	5-3
		5.3.2 Blanks	5-3
		5.3.2.1 Method Blanks	5-3
		5.3.2.2 Field Blanks (Rinsates)	5-3
		5.3.3 Field Duplicates	5-3

Section			Page
	5.4	COMPLETENESS	5-3
	5.5	COMPARABILITY	5-4
	5.6	SENSITIVITY	5-4
		5.6.1 Dilutions	5-4
		5.6.2 Quantitation Limits	5-4
6.0	METALS		6-1
	6.1	PRECISION	6-1
		6.1.1 Matrix Spike/Matrix Spike Duplicate	6-1
		6.1.2 Duplicate Control Samples	6-1
	6.2	ACCURACY	6-1
		6.2.1 Matrix Spike Percent Recovery	6-1
		6.2.2 Duplicate Control Samples	6-2
		6.2.3 Calibrations	6-2
		6.2.3.1 Initial Calibrations	6-2
		6.2.3.2 Continuing Calibrations	6-2
	6.3	REPRESENTATIVENESS	6-2
		6.3.1 Holding Times	6-2
		6.3.2 Blanks	6-2
		6.3.2.1 Method Blanks	6-3
		6.3.2.2 Field Blanks (Rinsates)	6-3
		6.3.3 Field Duplicates	6-3
	6.4	COMPLETENESS	6-3
	6.5	COMPARABILITY	6-4
	6.6	SENSITIVITY	6-4
		6.6.1 Dilutions	6-4
		6.6.2 Quantitation Limits	6-4
7.0	REFERENCES		7-1

LIST OF TABLES

TABLE 2-1 SAMPLES UTILIZED FOR MATRIX SPIKES/MATRIX DUPLICATES
TABLE 3-1 VOLATILE COMPOUNDS FOUND IN METHOD BLANK AND ASSOCIATED SEDIMENT SAMPLES
TABLE 3-2 VOLATILE COMPOUNDS FOUND IN METHOD BLANK AND ASSOCIATED WATER SAMPLES
TABLE 3-3 VOLATILE COMPOUNDS QUALIFIED AS NON-DETECTED (U) IN ASSOCIATED SAMPLES BECAUSE OF PRESENCE IN METHOD BLANKS
TABLE 3-4 COMPOUNDS FOUND IN RINSATE SAMPLES
TABLE 3-5 VOLATILE ANALYTES QUALIFIED AS NOT DETECTED (U) IN ASSOCIATED SAMPLES BECAUSE OF PRESENCE IN RINSATES
TABLE 3-6 FIELD DUPLICATE SAMPLES
TABLE 3-7 RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (VOLATILE COMPOUNDS)
TABLE 4-1 SVOC COMPOUNDS WITH UNACCEPTABLE MS/SMD RECOVERIES AND RPD IN ASSOCIATED SAMPLES
TABLE 4-2 SEMIVOLATILE COMPOUNDS FOUND IN RINSATE SAMPLES
TABLE 4-3 RELATIVE PERCENT DIFFEENCE FOR FIELD DUPLICATES (SEMIVOLATILE COMPOUNDS)
TABLE 5-1 PESTICIDE/PCBS SAMPLE RESULTS WITH MATRIX SPIKE RELATIVE PERCENT DIFFERENCES ABOVE THE UPPER CONTROL LIMITS
TABLE 5-2 PESTICIDE/PCBS SAMPLE RESULTS WITH MATRIX SPIKE RECOVERIES ABOVE THE UPPER CONTROL LIMITS
TABLE 5-3 PESTICIDE/PCBS SAMPLE RESULTS THAT WERE QUALIFIED DUE TO THEIR CONTINUING CALIBRATIONS REPORTING PERCENT DIFFERENCES GREATER THAN FIFTEEN PERCENT
TABLE 5-4 RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (PESTICIDE/PCB COMPOUNDS)

TABLE 5-5 SAMPLES ANALYZED WITH DILUTION (PESTICIDE/PCB COMPOUNDS)
TABLE 6-1 METAL ANALYTES QUALIFIED AS ESTIMATED (J) BECAUSE OF UNACCEPTABLE MATRIX SPIKE RECOVERIES
TABLE 6-2 METALS SAMPLE RESULTS QUALIFIED AS REJECTED (R) DUE TO MATRIX SPIKE RECOVERIES OUT OF THE CONTROL LIMIT
TABLE 6-3 POTENTIAL METAL CONTAMINANTS DETECTED IN THE BLANK SAMPLES
TABLE 6-4 METAL ANALYTES QUALIFIED AS NOT DETECTED (U) IN ASSOCIATED SAMPLES BECAUSE OF PRESENCE IN BLANKS
TABLE 6-5 RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (TOTAL AND RECOVERABLE METALS)
TABLE 6-6 SAMPLES ANALYZED WITH DILUTION (METALS)

%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
CCS	Contract Compliance Screening
DCS	Duplicate Control Samples
DQO	Data Quality Objective
ICP	Inductively Coupled Plasma Emission Spectrometry
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PCBs	Polychlorinated Biphenyls
PARCC	Precision, Accuracy, Representativeness, Completeness, and Comparability
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QES	Quanterra Environmental Services
RFI	RCRA Facility Investigation
RPD	Relative Percent Difference
RRF	Relative Response Factor
SAP	Sampling and Analysis Plan
SCS	Single Control Sample
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WCFS	Woodward-Clyde Federal Services

1.0
INTRODUCTION

During October 1994, fifteen surface water, fifteen sediment, and five biological (crayfish) samples along with 11 quality assurance samples (4 rinsate blanks, 4 trip blanks, 1 surface water field duplicate sample, and 2 sediment field duplicate samples) were collected at Soldier Creek, Tinker Air Force Base, Oklahoma City, Oklahoma for the ecological assessment. These samples were shipped to Quanterra Environmental Services (QES)[1] and analyzed by the United States Environmental Protection Agency (USEPA) SW-846 methods (USEPA, 1986) for volatile organic compounds (VOCs) (not performed for biological samples due to insufficient sample), semivolatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (PCBs), and metals specified in the Quality Assurance Project Plan (QAPP), Woodward-Clyde Federal Services (WCFS), 1994. The report summarizes the data validation results for these samples.

A Quality Assurance/Quality Control (QA/QC) review was performed by Quanterra Environmental Services. A QA/QC data assessment was performed by WCFS which included a Contract Compliance Screening (CCS) and validation of the data. One hundred percent of the data were reviewed in a CCS, and twenty percent of the VOC, SVOC, pesticide/PCBs and data were fully validated by WCFS personnel using the EPA CLP National Functional Guidelines for Data Review (USEPA, 1994a, 1994b). Data assessment is herein defined as the systematic, structured process of evaluating, editing, screening, checking, verifying, and reviewing to assure that analytical data are in compliance with established criteria and are valid for the intended use.

The CCS consisted of a review of SW-846 results summary sheets and instrument reports for QA/QC parameters such as matrix spike (MS), matrix spike duplicate (MSD) results, detection limits, calibrations, Laboratory Control Samples (LCS), chain of custody forms, sample preparations, holding times, etc. The data validation, in addition to the CCS review, consists of recalculating laboratory data, standard calibration curves, detection limits, and carefully checking chromatograms and reconstructed ion chromatograms.

---

[1] Quanterra Environmental Services. 4955 Yarrow Street, Arvada, Colorado 80002.

The purpose of the CCS and data validation is to evaluate whether laboratory performance and analytical data are in compliance with method requirements and project specifications for accuracy, precision, validity, and completeness.

The data assessment process provides information on analytical limitations of data based on regulatory or method specific QA/QC criteria. In addition, the review process assigns data qualifiers and provides a statement concerning useability of data. To ensure the data gathered during the investigation activities are adequate to support the ecological assessment, PARCC parameter targets have been identified for Level III analyses during the development of Data Quality Objectives (DQOs) and planning of the field activities. Level III analyses included all laboratory analyses using EPA methods. Targets for the analytical data include the parameters of precision, accuracy, representativeness, completeness, and comparability (PARCC). Quality of the analytical data is indicated by the calculation of values for precision, accuracy and completeness. The quantitative target values for precision, accuracy, and completeness are as follows:

- Precision = 20 percent
- Accuracy = control limits specified for the particular analysis
- Completeness = 90 percent

Comparability and representativeness are assessed in a qualitative evaluation of the data generated during the field investigation. This report summarizes the findings of the data assessment.

2.0
PARCC PARAMETERS

The PARCC parameters are identified specifically in Sections 9.0 and 13.0 of the QAPP, Quarterly Monitoring and Ecological Assessment, Tinker Air Force Base, Oklahoma City, Oklahoma (WCFS, 1994).

2.1 PRECISION

Precision is a measure of agreement between a set of replicate measurements and is used as a check on the quality of the sampling and analytical procedures. Precision is determined through the calculation of a relative percent difference (RPD) between duplicate analytical recoveries of a sample component. Sets of matrix spike/matrix spike duplicate (MS/MSD), and laboratory duplicate control samples (DCS) provide the replicate results which are used to calculate RPD.

2.2 ACCURACY

Accuracy is the measure of the nearness of a result to the true value. Possible sources of error in accuracy are the sampling process, field or laboratory contamination, preservation, handling, sample matrix, sample preparation and analysis techniques. Accuracy is assessed through the use of reference materials and is expressed as the percent recovery (%R) of the known concentration. The accuracy of reported data is determined through recoveries from matrix spikes, surrogate spikes, laboratory single control samples (SCS), and through instrument performance during instrument calibration (initial calibration, continuing calibration and internal standards performance).

2.2.1 Matrix Spike Percent Recovery

A matrix is defined as the predominant material composition of the sample to be analyzed. A matrix is usually referred to as aqueous, soil, or solid, but is not synonymous with phase (liquid or solid). A measured portion of a sample which has been fortified (spiked) with known quantities of specific compounds is referred to as a matrix spike (MS). A second

spiked portion of the same matrix is the matrix spike duplicate (MSD). After being spiked, the MS/MSD samples are subjected to the complete analytical procedure. The %R is calculated for each spiked analyte and must meet established control limits (USEPA, 1986). In addition to providing an indication of accuracy, the %R value indicates the appropriateness (the precision) of the method for the matrix. Sample matrix effects are evaluated using MS/MSD (VOCs and SVOCs) and MS (Inorganic) analyses. The samples utilized for MS/MSD analyses are shown in **Table 2-1**.

2.2.2 Surrogate Percent Recovery

Organic data accuracy is assessed on an individual sample basis using surrogate compound recoveries. Surrogate standards are intended to represent the entire suite of analyzed compounds with similar chemical and physical characteristics. These compounds are spiked into all blanks, calibration standards, samples, and spiked samples prior to sample preparation and analysis. The %R is calculated for each surrogate and must meet established control limits to be acceptable (USEPA, 1986).

Inorganic analyses do not incorporate the use of surrogate compounds.

2.2.3 Duplicate Control Samples

The duplicate control samples (DCS) are well-characterized, laboratory generated samples used to monitor the laboratory's daily performance of analytical methods independent of matrix effects. The laboratory analyzed DCS with each analytical batch of samples for each sample preparation method. The %Rs are calculated for each of the analytes detected and must meet the control limits established by the laboratory in order to be acceptable.

2.2.4 Calibrations

2.2.4.1 Initial Calibrations

Instruments must be calibrated correctly in order to ensure the accuracy of the sample results. For organic analyses the relative response factors (RRFs) must be at least 0.05 for each analyte. Also, the %RSDs between the RRFs for the same analyte but different standards

must be within 30%. For inorganic analyses the calibration curves must be linear, and the initial calibration verification sample results must be within the required %Rs.

2.2.4.2 Continuing Calibrations

Instruments must be checked on a regular basis to ensure that the calibration curve is still valid. For organic analyses the %D between the average RRF for an analyte and the continuing calibration RRF must be within 25%. For inorganic analyses the continuing calibration verification sample results must be within the required %Rs.

2.3 REPRESENTATIVENESS

Representativeness is a qualitative determination of the degree to which sample data accurately and precisely represent actual site conditions. The criterion for representativeness is best satisfied by making certain that sampling locations are properly selected and a sufficient number of samples are collected. Confirmation that specified holding times were met and examination of the results obtained from blanks and field duplicates provide a measure of assurance that the samples collected are representative of the sampling points.

2.3.1 Holding Times

Holding time is defined, according to a specific method, regulation, or project requirement, as the period of time during which samples, after collection and preservation, may be stored prior to analysis.

2.3.2 Blanks

Potential contamination is evaluated through the use of method blanks, field blanks (rinsates) and trip blanks.

2.3.2.1 Method Blanks

Method blank analyses are used to assess possible sample contamination due to laboratory procedure and/or equipment. Method blanks are analytical control samples consisting of all

reagents, internal standards, and surrogate standards. These blanks are subjected to the same laboratory preparation and analytical processes as the samples.

2.3.2.2 Field Blanks (Rinsates)

Field blanks, also referred to as rinsates, are used to evaluate potential cross-contamination of samples due to sample handling and field sampling equipment. Field blanks are prepared by rinsing the sampling equipment with analyte-free laboratory reagent water immediately following the equipment decontamination procedure.

2.3.2.3 Trip Blanks

Trip blanks are used to assess effects of shipping and sampling activities on investigative sample data. Trip blanks, prepared using analyte-free laboratory reagent water, are kept with the VOC sample containers during shipping to the laboratory for analysis.

2.3.3 Field Duplicates

Field duplicates were collected to check the representativeness of the field samples. The RPD between field replicate results should be adequately low to ensure that sampling and analytical techniques can be reproduced.

2.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements made whose results are judged to be valid.

2.5 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Sample data should be comparable with other measurement data for similar samples and conditions. This goal is achieved by using standard techniques to collect and analyze representative samples and reporting analytical results in the appropriate units.

2.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is determined through the evaluation of dilutions and quantitation limits of chemical analysis.

3.1 PRECISION

The overall precision for the analysis of VOCs is judged acceptable.

3.1.1 Matrix Spike/Matrix Spike Duplicate

Values for RPD were calculated for each VOC analyte spiked in the MS/MSD samples. RPDs were acceptable for all VOC compounds.

3.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each sample preparation method. The reagents in this case were spiked with target compounds (1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene) at 5-100 times the reporting limit.

RPDs were calculated for the spiked analytes in the laboratory DCS. All RPDs met the criteria of 20 percent.

3.2 ACCURACY

The accuracy of reported data is determined through recoveries from matrix spikes, surrogate spikes, and single control samples (SCS).

3.2.1 Matrix Spike Percent Recovery

For this sampling event, all of the MS/MSD recoveries for VOC analyses of sediment and surface water samples met the acceptance criteria, except for toluene. No qualifications were made.

3.2.2 Surrogate Percent Recovery

All surrogate recoveries for the VOC analyses were within the acceptable range in all samples, LCS, and trip blanks, except for sample EW01-SD-001. For sample EW01-SD-00 the recovery for the surrogate toluene-d8 (121%) was higher than the acceptable upper limit (117%). The sample was reanalyzed and the toluene-d8 results were similar to the results in the first analysis which indicates a matrix interference. Positive results for vinyl chloride, methylene chloride, acetone, carbon disulfide, 2-butanone, and toluene were qualified as estimated (J) in sample EW01-SD-001.

3.2.3 Single and Duplicate Control Samples

Besides the DCS for each batch of samples analyzed, an additional control measure is taken in the form of an SCS. For VOC analyses, the SCS consists of a control matrix that is spiked with surrogate compounds (1,2-dichloroethane-d4, 4-bromofluorobenzene, and toluene-d8). The laboratory analyzed an SCS and a DCS with each analytical batch of samples for each sample preparation method. All the recoveries for the SCS and DCS for VOC analyses were within the acceptable range.

3.2.4 Calibrations

3.2.4.1 Initial Calibrations

In this investigation, the only analytes reported to have initial calibration relative response factors (RRFs) out of the control limit were ethanol and 1,4-dioxane analyzed on instrument E in SDG 038950. The RRFs for both compounds were less than or equal to 0.05. Ethanol and 1,4-dioxane were not detected in the associated samples. In accordance with the data validation guidelines, ethanol and 1,4-dioxane were qualified as rejected (R) in the following samples: EE02-SW-001, EE02-SD-001, EE04-SW-001 RIN, EE04-SW-001, EE04-SD-001, EE04-SD-501, EE03-SW-001, EE03-SD-001, EE05-SW-001, EE05-SD-001, and TRIP-SD-007.

3.2.4.2 Continuing Calibrations

The only analyte reported to have continuing calibrations %Ds out of the control limit was acrolein in SDG 038950. Acrolein was not detected in any investigative samples. Therefore, acrolein in those samples (EE02-SW-001, EE02-SD-001, EE04-SW-001 RIN, EE04-SW-001, EE04-SD-001, EE04-SD-501, EE03-SW-001, EE03-SD-001, EE05-SW-001, EE05-SD-001, TRIP-SD-007) should be qualified as not detected, quantitation limit estimated (UJ).

3.2.5 Internal Standards

All the internal standards for VOC analysis met the required criteria. No further action is required.

3.3 REPRESENTATIVENESS

Representativeness is a qualitative determination of the degree to which sample data represents actual site conditions. Representativeness is determined through the confirmation that specified holding times were met and examining the results obtained from blanks and field duplicates.

3.3.1 Holding Times

All holding times were met for preparation and analysis of VOCs for all samples and trip blanks.

3.3.2 Blanks

Results of each category of blanks for VOC analyses are discussed in the following sections.

3.3.2.1 Method Blanks

VOC compounds found in method blanks are shown in **Table 3-1** (sediment samples) and **Table 3-2** (water samples). The only VOC analytes detected in the method blanks were acetone, carbon disulfide and methylene chloride. Methylene chloride and acetone are

specified as common laboratory contaminants (USEPA, 1994a). Procedures in the EPA CLP National Functional Guidelines for Data Validation (USEPA, 1994a) state that positive sample results should be reported if the concentration of the compound in the sample is greater than or equal to 10 times (10X) the amount in any blank. Although these compounds were found in the investigative samples, the levels were less than or equal to 10 times (10X) the amount in the blank and should be qualified as not detected (U). Since carbon disulfide is not considered a common laboratory contaminant (USEPA, 1994a), the concentration of carbon disulfide in the associated sample should be qualified as not detected (U), because detected concentration was less or equal to 5 times (5X) the amount in the blank (USEPA, 1994a). Compounds that should be qualified as not detected (U) in associated samples because of their presence in method blanks are shown in **Table 3-3**.

3.3.2.2 Field Blanks (Rinsates)

In this sampling event, four rinsate blanks were collected. The VOCs detected in the rinsate blanks in this investigation include acetone, bromodichloromethane, chloroform, and methylene chloride (**Table 3-4**). Chloroform and bromodichloromethane are organochlorine compounds commonly found in chlorine treated water. In this sampling event, chloroform and bromodichloromethane are found only in rinsate samples. Therefore, the presence of chloroform and bromodichloromethane in rinsate samples is not an indication of cross-contamination or site contamination.

The common laboratory contaminant, methylene chloride, was found in three rinsate blanks. Methylene chloride found in some of the associated samples have been qualified previously because of method blank contamination (see **Section 3.3.2.1**). Methylene chloride qualified as not detected (U) in the associated samples because of its presence in field blanks (rinsates) is summarized in **Table 3-5**.

A second common laboratory contaminant, acetone, was found in one rinsate blank. Acetone was qualified as not detected (U) in the associated samples because of its presence in field blanks (rinsates), as summarized in **Table 3-5**.

3.3.2.3 Trip Blanks

The only VOC detected in a trip blank in this investigation was methylene chloride which had been qualified previously as not detected (U) because of its presence in method blanks (see **Section 3.3.2.1**) or field blanks (see **Section 3.3.2.2**). No further action was required.

3.3.3 Field Duplicates

Three field duplicate sets (one surface water sample duplicate and two sediment sample duplicates) were collected during the field investigation. Field duplicate sample sets are shown in **Table 3-6**. Results of the duplicate analyses are shown in **Table 3-7**. Only those analytes or compounds with more than one positive result in investigative samples are shown. The agreement shown for the duplicate samples is the result of the variability of analytical analyses, variability in collecting environmental samples, and analytical results close to the detection limit for several analytes. At µg/kg or µg/L concentration, these factors are important and should be considered as contributors to the variance in field duplicate results.

3.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements made whose results are judged to be valid. Completeness of the VOC data is greater than 90 percent and is acceptable.

3.5 COMPARABILITY

The sampling procedures for VOC samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). VOC samples were analyzed by Method 8240 as required. All reporting units for VOC analyses were consistent. Therefore, comparability of the VOC data is acceptable.

3.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is determined through the evaluation of dilutions and quantitation limits of chemical analyses. Sensitivity for VOC analyses was acceptable.

3.6.1 Dilutions

Dilutions of water samples were not necessary for VOC analyses. Although some of the sediment samples were diluted for VOC analyses, all laboratory quantitation limits achieved in VOC analyses met the project requirements.

3.6.2 Quantitation Limits

Detection limit is the smallest reported concentration in a sample within a specified level of confidence. Quantitation limit includes the detection limit, all uncertainties in the analytical procedure, and a safety factor. The laboratory quantitation limits achieved for VOC analyses of water and sediment samples met project requirements.

4.1 PRECISION

The overall precision for the analysis of SVOCs is judged acceptable.

4.1.1 Matrix Spike/Matrix Spike Duplicate

RPDs were calculated for each SVOC spiked in the MS/MSD samples. The SVOC compounds with unacceptable RPD and associated samples are summarized in **Table 4-1**. The SVOC compounds with unacceptable RPD in associated samples were 4-nitrophenol in SDG 038950 (RPD = 171%, criterion is 50%) and 2,4-dinitrotoluene in SDG 038910 (RPD = 68%, criterion is 47%). However, the surrogates for all samples showed acceptable recoveries. Therefore, data remained unqualified.

4.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each sample preparation method. The samples were spiked with target compounds at 5-100 times the reporting limit. RPD values were calculated for SVOC analytes spiked into the laboratory DCS. The RPDs were within the chemical specific criteria.

4.2 ACCURACY

The accuracy of reported data is determined through recoveries for matrix spikes, surrogate spikes, and SCS.

4.2.1 Matrix Spike Percent Recovery

The SVOC compounds with unacceptable %Rs and associated samples are summarized in **Table 4-1**. For SDG 038987, analyses showed a high MSD recovery for both 2,4-dinitrotoluene (100%, upper limit is 96%) and 4-nitrophenol (87%, upper limit is 80%). For SDG 038950, analyses showed a low MS recovery for 4-nitrophenol (9% , lower limit is 11%). However, because the surrogates for all samples showed acceptable recoveries (see **Section 4.2.2**), data remained unqualified.

4.2.2 Surrogate Percent Recovery

All the surrogate %R for the SVOC analysis were within the acceptable range in all samples and trip blanks.

4.2.3 Single and Duplicate Control Samples

Besides the DCS, for each batch of samples analyzed, an additional control measure is taken in the form of an SCS. For SVOC analyses, the SCS consists of a control matrix that is spiked with surrogate compounds. The laboratory analyzed an SCS and DCS with each analytical batch of samples for each sample preparation method. All %Rs for the DCS and SCS for SVOC analyses were within the acceptable range with the exception of pyrene for aqueous DCS in SDG 038987 (%R = 118%) and in SDG 38950 (%R = 118%). The acceptable pyrene %R in aqueous DCS analysis is between 52-115%. However, because the surrogates recoveries for all associated samples were within acceptable ranges, data remained unqualified.

4.2.4 Calibrations

4.2.4.1 Initial Calibrations

In this investigation, all the initial calibrations for SVOC analyses met the required criteria.

4.2.4.2 Continuing Calibrations

In this investigation, all continuing calibrations met the required criteria.

4.2.5 Internal Standards

Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during every analytical run. In this investigation, all the internal standards area were within the control limits.

4.3 REPRESENTATIVENESS

Representativeness is a qualitative determination of the degree to which sample data represent actual site conditions. Representativeness is determined through the confirmation that specified holding times were met, examination of blank results, and evaluation of field duplicate samples.

4.3.1 Holding Times

All holding times were met for preparation and analysis of SVOCs for all sample, and trip blanks.

4.3.2 Blanks

Results of each category of blanks for SVOC analyses are discussed in the following sections.

4.3.2.1 Method Blanks

No SVOC compounds was found in any method blanks used in this sampling investigation.

4.3.2.2 Field Blanks (Rinsates)

The SVOCs detected in the rinsate blanks in this investigation include bis(2-ethylhexyl)phthalate, 2-cyclohexane-1-ol and cyclohexane (**Table 4-2**). Bis(2-ethylhexyl)phthalate, a common laboratory contaminant, was detected in the rinsate sample EE08-SW-001-RIN. Procedures in the EPA CLP National Functional Guidelines for Data Validation (USEPA, 1994a) state that positive sample results should be qualified as not detected (U) when the concentration of the compound in the sample is less than or equal to 10 times the amount in any blank. Bis(2-ethylhexyl)phthalate concentrations in the associated samples were higher than 10 times the concentration detected in the rinsate sample EE08-SW-001-RIN, so no further action was required.

The compounds 2-cyclohexane-1-ol and cyclohexane were not considered common laboratory contaminants (USEPA, 1994a), the concentration in the associated sample should be qualified as not detected (U) if the detected concentration is less or equal to 5 times (5X) the amount in the blank (USEPA, 1994a). In samples EW01-SW-001 and EW03-SW-001 2-cyclohexanone-1-ol should be qualified as not detected (U) because of its presence in the rinsate blank. Cyclohexane was not detected in any of the associated samples, no action is necessary.

4.3.2.3 Trip Blanks

There were no SVOC compounds detected in any of the four trip blanks for this investigation.

4.3.3 Field Duplicates

Three field duplicate sets were collected during the ecological field investigation. Field duplicate sample sets are shown in **Table 3-6**. Results of the duplicate SVOC analyses are shown in **Table 4-3**. Only those analytes or compounds with more than one positive result in investigative samples are shown. The large variation between the field duplicates is likely the result of variability in analyses, sample collection, and/or analytical results close to the detection limit for several analytes. At µg/kg or µg/L concentration, these factors are important and should be considered as contributors to the variance in field duplicate results.

4.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid. Completeness of the SVOC data is greater than 90 percent and is acceptable.

4.5 COMPARABILITY

Comparability of the SVOC data is acceptable. The sampling procedures for SVOC samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). SVOC samples were analyzed by Method 8270 as required. All reporting units for SVOC analyses were consistent with the matrix.

4.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is determined through the evaluation of dilutions and quantitation limits. Sensitivity for SVOC analyses was acceptable.

4.6.1 Dilutions

Dilutions of water samples were not necessary for SVOC analyses. Although some of the sediment samples were diluted for SVOC analyses, all laboratory quantitation limits for SVOC analyses met project requirements.

4.6.2 Quantitation Limits

Detection limit is the smallest reported concentration in a sample within a specified level of confidence. Quantitation limit includes the detection limit, all uncertainties in the analytical procedure, and a safety factor. The laboratory quantitation limits for SVOC analyses of water and sediment samples met project requirements.

5.1 PRECISION

The overall precision for the analysis of pesticides/PCBs was acceptable.

5.1.1 Matrix Spike/Matrix Spike Duplicate

Values for RPD were calculated for each pesticide/PCB analyte spiked in the MS/MSD samples. The pesticide/PCB compounds with unacceptable RPDs and associated samples are summarized in **Table 5-1**.

5.1.2 Duplicate Control Samples

Values were calculated for each pesticide/PCB analyte spiked in the DCS. The control limits specified for precision as indicated by RPD were met. The overall precision for the analysis of pesticide/PCB compounds was acceptable.

5.2 ACCURACY

The accuracy of reported data is determined through recoveries from surrogate spikes and DCS.

5.2.1 Matrix Spike Percent Recovery

The pesticide/PCB compounds with unacceptable %Rs and associated samples are summarized in **Table 5-2**.

5.2.2 Surrogate Percent Recovery

Surrogate recoveries were acceptable, although some investigative samples were run at dilutions where the surrogate was not reportable. Three samples that were diluted reported

the surrogate dibutyl chlorendate as not detected on both columns. No qualification of the data was deemed necessary. The accuracy, as indicated by surrogate recovery, was acceptable for the pesticide/PCB analyses.

5.2.3 Duplicate Control Samples

The laboratory analyzed DCS1 and DCS2 duplicates with each analytical batch of samples. The samples in this case were spiked with heptachlor, aldrin, dieldrin, endrin, and 4,4'-DDT. The recovery criteria were met for each DCS pair. No positive results were reported for any of these analytes in any investigative samples, indicating no effect upon data quality.

5.2.4 Calibrations

5.2.4.1 Initial Calibrations

All initial calibrations for pesticide/PCB analyses met the required criteria.

5.2.4.2 Continuing Calibrations

The pesticide/PCB compounds with %Ds greater than fifteen percent and associated samples are summarized in **Table 5-3**. Results for these compounds were qualified as not detected, quantitation limit estimated (UJ) for the associated samples.

5.3 REPRESENTATIVENESS

Representativeness is a qualitative determination of the degree to which sample data represents actual site conditions. Representativeness is determined through confirming that specified holding times were met and examining the results obtained from blanks and field duplicates.

5.3.1 Holding Times

The 7-day preparation and 40-day analysis holding times were met for each pesticide/PCB water analysis. The 14-day preparation and 40-day analysis holding times were met for each pesticide/PCB sediment analysis.

5.3.2 Blanks

Results of each category of blanks for pesticide/PCB analyses are discussed in the following sections.

5.3.2.1 Method Blanks

No pesticide/PCB analytes were detected in the method blanks for this investigation.

5.3.2.2 Field Blanks (Rinsates)

No pesticide/PCB analytes were detected in the rinsate samples for this investigation. The field decontamination was successful by not introducing field contamination to the investigative samples.

5.3.3 Field Duplicates

Three field replicate sample sets were collected for pesticide/PCB analyses during the ecological field investigation. Target compounds were detected above the reporting limit (see **Table 5-4**). Dieldrin and Arochlor-1254 were reported in an investigative sample with poor agreement with its duplicate sample (RPDs>30%).

5.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements made whose results are judged to be valid. Completeness of the pesticide/PCB data is greater than 90 percent and is acceptable.

5.5 COMPARABILITY

Comparability of the pesticide/PCB data is acceptable. The sampling procedures for pesticide/PCB samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). Pesticide/PCB samples were analyzed by Method 8080 (sediment) and Method 608 (water) as required. All reporting units for pesticide/PCB analyses were consistent.

5.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is determined through the evaluation of dilutions and quantitation limits. Sensitivity for pesticide/PCB analyses was acceptable.

5.6.1 Dilutions

Dilutions of sediment samples were necessary for analysis of the pesticides/PCBs (**Table 5-5**).

5.6.2 Quantitation Limits

Detection limit is the smallest reported concentration in a sample within a specified level of confidence. Quantitation limit includes the detection limit, all uncertainties in the analytical procedure, and a safety factor. The laboratory quantitation limits achieved in the pesticide/PCB analyses of the water and sediment samples met the project requirements.

6.1 PRECISION

The overall precision for the analysis of metals is judged acceptable.

6.1.1 Matrix Spike/Matrix Spike Duplicate

Values for RPD were calculated for each analyte spiked in the MS/MSD samples. The only metal with RPD outside the criterion was copper in sediments (SDGs 038987 and 039850). The following samples were qualified estimated (J) for copper due to high RPD results: EC01-SD-001, EC02-SD-001, EE01-SD-001, EE02-SD-001, EE04-SD-001, EE04-SD-501, EE03-SD-001, and EE05-SD-001.

6.1.2 Duplicate Control Samples

The DCS were within the acceptance limit of 35 percent for all samples.

6.2 ACCURACY

The accuracy of reported data for metals is determined through recoveries from MS/MSD samples, surrogate spikes, and DCS.

6.2.1 Matrix Spike Percent Recovery

Arsenic (As), beryllium (Be), calcium (Ca), cobalt (Co), chromium (Cr), copper (Cu), lead (Pb), magnesium (Mg), manganese (Mn), nickel (Ni), silver (Ag), sodium (Na), selenium (Se), thallium (Tl), vanadium (V) and zinc (Zn) were qualified as estimated (J) in the samples indicated in **Table 6-1**. Some of the sample data for antimony and sodium were rejected (R) due to very low matrix spike recoveries as indicated in **Table 6-2**.

6.2.2 Duplicate Control Samples

The DCS percent recoveries were within the acceptance limits of 80-120 percent for all samples.

6.2.3 Calibrations

6.2.3.1 Initial Calibrations

The reviewed initial calibrations were acceptable for all samples.

6.2.3.2 Continuing Calibrations

The reviewed continuing calibrations were acceptable for all samples.

6.3 REPRESENTATIVENESS

Representativeness of reported data for metals is determined through confirmation that holding times were met and the evaluation of the results of field duplicate samples and field blanks.

6.3.1 Holding Times

The 180-day analysis holding time for inductively coupled plasma emission spectrometry (ICP) metal analysis, 28-day analysis holding time for mercury analysis, and 14-day analysis holding time for cyanide were met for all investigative aqueous and soil samples with the exception of one sample for cyanide, EE01-SD-001, which was qualified as estimated (J).

6.3.2 Blanks

Potential contamination is evaluated through the use of method blanks and trip blanks. **Table 6-3** shows the metal concentrations found in various blanks. **Table 6-4** summarizes all the metal analytes qualified as not detected (U) in the associated samples because of contamination in the blanks.

6.3.2.1 Method Blanks

ICP method blanks contained only one metal -- calcium. Cyanide was also detected in one method blank. None of the samples had analyte concentrations less than five times the amount reported in the associated method blank. No data was qualified due to method blank contamination.

6.3.2.2 Field Blanks (Rinsates)

Metals detected in the rinsate blanks included: aluminum, barium, calcium, copper, iron, manganese, magnesium, nickel, potassium, silver, sodium, lead and zinc. Cyanide was also detected in the rinsate blanks. Nine metals were detected in the ambient blank. Metals detected in rinsate blanks were also detected in the associated investigative soil and water samples. However, metal concentrations in water rinsates are orders of magnitude lower than that of the investigative soil samples. Therefore, cross-contamination is not a significant issue in metal soil sample analysis, but many of the water samples had at least one analyte qualified as not detected (U) due to blank contamination (**Table 6-4**).

6.3.3 Field Duplicates

Three field duplicate sample sets were collected during the ecological field investigation. Average RPD values of metals in field duplicates are presented in **Table 6-5**. Based upon evaluation of RPDs for metals, results of field duplicate analyses show a large variation between the field duplicate results. The agreement shown for the duplicate samples is the result of the variability of analytical analyses, variability in collecting environmental samples, and analytical results close to the detection limit for several analytes. At mg/kg or mg/L concentration, these factors are important and should be considered as contributors to the variance in field duplicate results.

6.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements made whose results are judged to be valid. Completeness of the metals data is greater than 90 percent and is acceptable as compared to the DQOs.

6.5 COMPARABILITY

Comparability of the metals data is acceptable. The sampling procedures for metal samples were documented to be consistent with the required methods. Metals (except mercury, arsenic, lead, selenium and thallium) were analyzed by the SW-846 Method 6010 as required. Mercury samples were analyzed by SW-846 Method 7470, arsenic by Method 7060, lead by Method 7421, selenium by Method 7740 and thallium by Method 7841. In addition, aqueous samples were analyzed for total metals (cadmium, copper, lead and silver) by EPA Method 6020. All reporting units for metal analyses were consistent.

6.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is determined through the evaluation of dilutions and quantitation limits. Sensitivity for metals analyses was acceptable.

6.6.1 Dilutions

Some of the investigative samples and rinsate blanks were analyzed for metals after dilution. These samples and their dilution factors are listed in **Table 6-6**.

6.6.2 Quantitation Limits

Quantitation limits for metal analyses of all investigative samples and rinsate blanks generally met the project requirements.

7.0
REFERENCES

U.S. Environmental Protection Agency (USEPA). 1986. Test Methods for Evaluating Solid Waste. SW-846, 9-86, Rev 0.

U.S. Environmental Protection Agency (USEPA). 1994a. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. February 1994 Revision.

U.S. Environmental Protection Agency (USEPA). 1994b. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. February 1994 Revision.

Woodward-Clyde Federal Services WCFS). 1994. Quality Assurance Project Plan, Quarterly Monitoring and Ecological Assessment, Tinker Air Force Base,Oklahoma City, Oklahoma. Prepared for Department of Air Force, Tinker AFB, Oklahoma City, Oklahoma. August.

TABLES

TABLE 2-1

SAMPLES UTILIZED FOR MATRIX SPIKES/MATRIX SPIKE DUPLICATES

EE01-SW-001
EE04-SD-001
EE08-SD-001

TABLE 3-1

VOLATILE COMPOUNDS FOUND IN METHOD BLANK AND ASSOCIATED SEDIMENT SAMPLES

METHOD BLANK	COMPOUND	CONC. µg/kg	SAMPLE ASSOCIATED	SDG
1-Nov-94-D	Methylene Chloride	1.4	EW01-SD-001 EW03-SD-001 EW02-SD-001 EE10-SD-001	38873
2-Nov-94-N	Methylene Chloride	2.2	EE07-SD-001 EE08-SD-001	38910
3-Nov-94-N	Methylene Chloride	1.1	EE08-SD-501 EE06-SD-001 EE09-SD-001	38910
3-Nov-94-N	Methylene chloride	1.1	EC01-SD-001 EC02-SD-001 EE01-SD-001	38987
3-Nov-94-N	Methylene chloride	1.1	EE02-SD-001 EE04-SD-501 EE05-SD-001	38950
7-Nov-94-H	Carbon Disulfide	1.3	EE04-SD-001	38950
4-Nov-94-H	Acetone	5.0	EE03-SD-001	38950

TABLE 3-2

VOLATILE COMPOUNDS FOUND IN METHOD BLANK AND ASSOCIATED WATER SAMPLES

METHOD BLANK	COMPOUND	CONC. µg/L	SAMPLE ASSOCIATED	SDG
3-Nov-94-D	Methylene Chloride	1.9	QW00-SW-000	38838
3-Nov-94-B2	Methylene Chloride	3.0	EE08-SW-001	38910
		3.0	EE06-SW-001	
		3.0	EE08-SW-001 RIN	
		3.0	EE09-SW-001	
		3.0	TRIP-SW-006	
3-Nov-94-D	Methylene Chloride	1.9	EE01-SW-001	38987
		1.9	EE01-SW-001 RIN	
		1.9	EC02-SW-001	
		1.9	TRIP-SW-008	

TABLE 3-3

VOLATILE COMPOUNDS QUALIFIED AS NON-DETECTED (U) IN ASSOCIATED SAMPLES BECAUSE OF PRESENCE IN METHOD BLANKS

COMPOUND	ASSOCIATED SAMPLES	
Methylene Chloride	EC01-SD-001	EE07-SW-001
	EC02-SD-001	EE08-SD-001
	EC02-SW-001	EE08-SW-001
	EE01-SD-001	EE08-SW-001-RIN
	EE01-SW-001	EE09-SD-001
	EE01-SW-001-RIN	EE09-SW-001
	EE02-SD-001	EE10-SD-001
	EE04-SD-501	EW01-SD-001
	EE05-SD-001	EW02-SD-001
	EE06-SD-001	EW03-SD-001
	EE06-SW-001	TRIP-SW-006
	EE08-SD-501	TRIP-SW-008
	EE07-SD-001	
Carbon disulfide	EE04-SD-001	

TABLE 3-4

COMPOUNDS FOUND IN RINSATE SAMPLES

Rinsate Samples	Compound	Concentration (µg/L)	Associated SDG No.
EE04-SW-001-RIN	Chloroform	52.0	38950
	Bromodichloromethane	2.9	
EE01-SW-001-RIN	Methylene Chloride	2.7	38987
	Chloroform	52.0	
	Bromodichloromethane	3.0	
EW01-SW-001-RIN	Methylene Chloride	2.3	38873
	Chloroform	50.0	
EE08-SW-001-RIN	Methylene Chloride	6.5	38910
	Acetone	1.5	
	Chloroform	44.0	
	Bromodichloromethane	2.6	

TABLE 3-5

VOLATILE ANALYTES QUALIFIED AS NOT DETECTED (U) IN ASSOCIATED SAMPLES BECAUSE OF PRESENCE IN RINSATES

Chemical Name	Associated Samples
Methylene Chloride	EE03-SW-001
	EE04-SW-001
	EE04-SD-001
	EE02-SW-001
	EE10-SW-001
Acetone	EE07-SW-001
	EE08-SW-001
	EE06-SW-001
	EE09-SW-001
	EE09-SD-001

TABLE 3-6

FIELD DUPLICATE SAMPLES

Field Samples	Field Duplicate Samples	Matrix	Associated SDGs
EE04-SD-001	EE04-SD-501	Soil	38950
EE08-SD-001	EE08-SD-501	Soil	38910
EE01-SW-001	EE01-SW-501	Water	38987

TABLE 3-7

RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (VOLATILE COMPOUNDS)

Field Duplicate Sample ID	Field Duplicate Results	Original Sample ID	Original Results	RPD
VOC : METHYLENE CHLORIDE (µg/kg or µg/L)			**Average RPD =**	**NA**
EE04-SD-501	3.9	EE04-SD-001	2.1	60.00%
EE01-SD-501	ND	EE01-SW-001	2.2	NA
EE08-SD-501	4.8	EE08-SD-001	4.9	2.06%
VOC :ACETONE (µg/kg or µg/L)			**Average RPD =**	**NA**
EE04-SD-501	20	EE04-SD-001	ND	NA
EE01-SW-501	ND	EE01-SW-001	ND	NA
EE08-SD-501	19	EE08-SD-001	18	5.41%
VOC : 2-BUTANONE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	18	EE04-SD-001	ND	NA
EE08-SD-501	ND	EE08-SD-001	16	NA
VOC : SILOXANE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	14	EE04-SD-001	ND	NA
VOC : TRICHLOROETHENE (µg/kg)			**Average RPD =**	**NA**
EE08-SD-501	2.2	EE08-SD-001	ND	NA
VOC : TETRACHLOROETHENE (µg/kg)			**Average RPD =**	**NA**
EE08-SD-501	3.1	EE08-SD-001	ND	NA
VOC : TOLUENE (µg/kg)			**Average RPD =**	**67%**
EE08-SD-501	1.5	EE08-SD-001	3	66.67%

Notes : NA signifys that one of the results is ND, therefore RPD cannot be calculated ; ND = compound not detected

Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 2 * |Result1 - Result2| / (Result1 + Result2)*100%

TABLE 4-1

SVOC COMPOUNDS WITH UNACCEPTABLE MS/MSD RECOVERIES AND RPD IN ASSOCIATED SAMPLES

Compound	Matrix	MS %R	MSD %R	CRITERIA LIMIT	RPD %	RPD CRITERIA LIMIT	SDG	ASSOCIATED SAMPLES	
2,4-Dinitrotoluene	Aqueous	84	100	24-96	17	38	38987	EC01-SW-001 EC02-SW-001 EE01-SW-001	EE01-SW-001-RIN EE01-SW-501
4-Nitrophenol	Aqueous	77	87	10-80	12	50	38987	EC01-SW-001 EC02-SW-001 EE01-SW-001	EE01-SW-001-RIN EE01-SW-501
2,4-Dinitrotoluene	Soil	41	84	28-89	68	47	38910	EE06-SD-001 EE07-SD-001 EE08-SD-001	EE08-SD-501 EE09-SD-001
4-Nitrophenol	Soil	9	114	11-114	171	50	38950	EE02-SD-001 EE03-SD-001 EE04-SD-001	EE04-SD-501 EE05-SD-001 TRIP-SD-007

Note: The values out of acceptable limits were underlined.

TABLE 4-2

SEMIVOLATILE COMPOUNDS FOUND IN RINSATE SAMPLES

Rinsate Samples	Compound	Concentration (µg/L)	Associated Samples	
EE08-SW-001-RIN	bis(2-ethylhexyl)phthalate	4.0	EE06-SD-001	EE08-SD-501
			EE06-SW-001	EE08-SW-001
			EE07-SD-001	EE09-SD-001
			EE07-SW-001	EE09-SW-001
			EE08-SD-001	TRIP-SW-006
EW01-SW-001-RIN	2-cyclohexane-1-ol	4.3	EE10-SD-001	EW02-SW-001
			EE10-SW-001	EW03-SD-001
			EW01-SD-001	EW03-SW-001
			EW01-SW-001	TRIP-SW-005
			EW02-SD-001	
EW01-SW-001-RIN	cyclohexane	3.2	EE10-SD-001	EW02-SW-001
			EE10-SW-001	EW03-SD-001
			EW01-SD-001	EW03-SW-001
			EW01-SW-001	TRIP-SW-005
			EW02-SD-001	

TABLE 4-3

RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (SEMIVOLATILE COMPOUNDS)

Field Duplicate Sample ID	Field Duplicate Results	Original Sample ID	Original Results	RPD
SVOC : 4-METHYL PHENOL (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	100	EE04-SD-001	ND	NA
SVOC : NAPHTHALENE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	380	EE04-SD-001	ND	NA
SVOC : 2-METHYL NAPHTHALENE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	130	EE04-SD-001	ND	NA
SVOC : ACENAPHENE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	550	EE04-SD-001	80	149.21%
EE08-SD-501	59	EE08-SD-001	ND	NA
SVOC : DIBENZOFURAN (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	360	EE04-SD-001	ND	NA
SVOC : FLUORENE (µg/kg)			**Average RPD =**	**151%**
EE04-SD-501	690	EE04-SD-001	96	151.15%
SVOC : PHENANTHRENE (µg/kg)			**Average RPD =**	**121%**
EE04-SD-501	7300	EE04-SD-001	1800	120.88%
SVOC : ANTHRACENE (µg/kg)			**Average RPD =**	**77%**
EE04-SD-501	1900	EE04-SD-001	290	147.03%
EE08-SD-501	140	EE04-SD-001	150	6.90%
SVOC : DI-N-BUTYLPHTHALATE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	92	EE04-SD-001	ND	NA
SVOC : FLUORANTHENE (µg/kg)			**Average RPD =**	**72%**
EE04-SD-501	12000	EE04-SD-001	3100	117.88%
EE08-SD-501	1300	EE08-SD-001	1000	26.09%
SVOC : PYRENE (ug/kg)			**Average RPD =**	**67%**
EE04-SD-501	9000	EE04-SD-001	2300	118.58%
EE08-SD-501	1000	EE08-SD-001	850	16.22%
SVOC: BUTYLBENZYLPHTHALATE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	140	EE04-SD-001	ND	NA
SVOC : BENZO(A)ANTHRACENE (µg/kg)			**Average RPD =**	**70%**
EE04-SD-501	5400	EE04-SD-001	1200	127.27%
EE08-SD-501	410	EE08-SD-001	360	12.99%

TABLE 4-3

RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (SEMIVOLATILE COMPOUNDS)

Field Duplicate Sample ID	Field Duplicate Results	Original Sample ID	Original Results	RPD
SVOC : CHRYSENE (µg/kg)			**Average RPD =**	**103%**
EE04-SD-501	6200	EE04-SD-001	130	191.79%
EE08-SD-501	500	EE08-SD-001	430	15.05%
SVOC : BIS(2-ETHYLHEXYL)PHTHALATE (µg/kg or µg/L)			**Average RPD =**	**57%**
EE04-SD-501	1800	EE04-SD-001	580	102.52%
EE08-SD-501	720	EE08-SD-001	600	18.18%
EE01-SW-501	3	EE01-SW-001	5	50.00%
SVOC : DI-N-OCTYL PHTHALATE (µg/kg)			**Average RPD =**	**126%**
EE04-SD-501	250	EE04-SD-001	57	125.73%
SVOC : BENZO(B)FLUORANTHENE (µg/kg)			**Average RPD =**	**57%**
EE04-SD-501	3700	EE04-SD-001	1400	90.20%
EE08-SD-501	710	EE08-SD-001	560	23.62%
SVOC : BENZO(K)FLUORANTHENE (µg/kg)			**Average RPD =**	**119%**
EE04-SD-501	5500	EE04-SD-001	1400	118.84%
SVOC : BENZO(A)PYRENE (µg/kg)			**Average RPD =**	**74%**
EE04-SD-501	4200	EE04-SD-001	1200	111.11%
EE08-SD-501	410	EE08-SD-001	280	37.68%
SVOC : INDENO(1,2,3-CD)PYRENE (µg/kg)			**Average RPD =**	**132%**
EE04-SD-501	2000	EE04-SD-001	410	131.95%
SVOC : DIBENZ(A,H)ANTHRACENE (µg/kg)			**Average RPD =**	**NA**
EE04-SD-501	970	EE04-SD-001	ND	NA
SVOC : BENZO(G,H,I)PERYLENE (µg/kg)			**Average RPD =**	**132%**
EE04-SD-501	1900	EE04-SD-001	390	131.88%

Notes : NA signifys that one of the results is ND, therefore RPD cannot be calculated ; ND = compound not detected

Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 2 * |Result1 - Result2| / (Result1 + Result2)*100%

TABLE 5-1

PESTICIDE/PCBs SAMPLE RESULTS WITH MATRIX SPIKE RELATIVE PERCENT DIFFERENCES ABOVE THE UPPER CONTROL LIMITS

ANALYTES	SAMPLES AFFECTED
ALDRIN	EE04-SD-001
HEPTACHLOR	EE04-SD-001
ALDRIN	EE08-SD-001
DIELDRIN	EE08-SD-001
HEPTACHLOR	EE08-SD-001

TABLE 5-2

PESTICIDE/PCBs SAMPLE RESULTS WITH MATRIX SPIKE RECOVERIES ABOVE THE UPPER CONTROL LIMITS

ANALYTES	SAMPLES AFFECTED
4,4-DDT	EE04-SD-001
ALDRIN	EE08-SD-001
DIELDRIN	EE08-SD-001
HEPTACHLOR	EE08-SD-001

TABLE 5-3

PESTICIDE/PCBs SAMPLE RESULTS THAT WERE QUALIFIED AS NOT DETECTED, QUANTITATION LIMIT ESTIMATED (UJ) DUE TO THEIR CONTINUING CALIBRATIONS REPORTING PERCENT DIFFERENCES GREATER THAN FIFTEEN PERCENT

ANALYTES	SAMPLES AFFECTED
ENDOSULFAN SULFATE	EE08-BT-001, EC01-BT-001, EC07-BT-001
DIBUTYL CHLORENDATE	EE08-BT-001, EC01-BT-001, EC07-BT-001
DELTA BHC	EE08-BT-001, EC01-BT-001, EC07-BT-001
ALPHA BHC	EE02-SD-001, EE04-SD-001, EE04-SD-501, EE03-SD-001
ENDRIN ALDEHYDE	EE05-SD-001

TABLE 5-4

RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES
(Pesticide/PCB Compounds)

Sample Point	Field Duplicate Sample ID	Field Duplicate Results	Original Sample ID	Original Results	RPD
PESTICIDES/PCBs: Arochlor-1254				**Average RPD =**	**121**
EE04	EE04-SD-501	2300	EE04-SD-001	570	121
PESTICIDES/PCBs: Dieldrin				**Average RPD =**	**70**
EE08	EE08-SD-501	52	EE04-SD-001	25	70

Notes : NA signifys that one of the results is ND, therefore RPD cannot be calculated ; ND = compound not detected

Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 2 * |Result1 - Result2| / (Result1 + Result2)*100%

TABLE 5-5

SAMPLES ANALYZED WITH DILUTION
(Pesticide/PCB Compounds)

Sample ID	Dilution Factor
EE08-BT-001	2
EW01-SD-001	100
EW02-SD-001	1000
EE10-SD-001	2
EW03-SD-001	5
EE02-SD-001	100
EE04-SD-001	5
EE04-SD-501	10
EE03-SD-001	2
EE05-SD-001	1000
EE01-SD-001	5
EE08-SD-001	5
EE06-SD-001	5
EE09-SD-001	2

TABLE 6-1

METALS ANALYTES QUALIFIED AS ESTIMATED (J) BECAUSE OF UNACCEPTABLE MATRIX SPIKE RECOVERIES

ANALYTES	SAMPLES AFFECTED	
Arsenic	EW02-SD-001 *	EE09-SD-001 *
	EE06-SD-001 *	EE01-SW-001 *
	EE02-SW-001 *	EE04-SW-001 *
	EE03-SW-001 *	EE05-SW-001 *
Beryllium	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
		EE09-SD-001
Chromium	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE07-SD-001
	EE08-SD-001	
Cobalt	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE07-SD-001
	EE08-SD-001	
Calcium	EC01-SD-001	EE04-SD-001
	EC02-SD-001	EE04-SD-501
	EE01-SD-001	EE03-SD-001
	EE02-SD-001	EE05-SD-001
Copper	EC01-SD-001	EE04-SD-001
	EC02-SD-001	EE04-SD-501
	EE01-SD-001	EE03-SD-001
	EE02-SD-001	EE05-SD-001
Lead	EE10-SW-001 *	EC01-SW-001 *
	EE02-SW-001 *	EE03-SW-001 *
Magnesium	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE07-SD-001
	EE08-SD-001	
Manganese	EC01-SD-001	EE04-SD-001
	EC02-SD-001	EE04-SD-501
	EE01-SD-001	EE03-SD-001
	EE02-SD-001	EE05-SD-001
Nickel	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE07-SD-001
	EE08-SD-001	

TABLE 6-1

METALS ANALYTES QUALIFIED AS ESTIMATED (J) BECAUSE OF UNACCEPTABLE MATRIX SPIKE RECOVERIES

ANALYTES	SAMPLES AFFECTED	
Silver	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE07-SD-001
	EE08-SD-001	
Sodium	EW01-SD-001	EE08-SD-501
	EE07-SD-001	EE06-SD-001
	EE08-SD-001	EE09-SD-001
	EW03-SD-001	
Selenium	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EC01-SD-001 *
	EE07-SD-001	EE03-SD-001 *
	EE08-SD-001	EC02-SD-001 *
	EE01-SD-001 *	
Thallium	EW02-SD-001 *	EE08-SW-001 *
	EE10-SD-001 *	EE08-SD-501 *
	EE07-SD-001 *	EE06-SD-001 *
	EE09-SW-001 *	EE09-SD-001 *
	EE01-SW-501 *	EE01-SW-001 *
	EC02-SW-001 *	EC01-SW-001 *
	EC01-SD-001 *	EE02-SD-001 *
	EC02-SD-001 *	EE03-SD-001 *
	EE01-SD-001 *	
Vanadium	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE07-SD-001
	EE08-SD-001	
Zinc	EW01-SD-001	EE08-SD-501
	EW02-SD-001	EE06-SD-001
	EE10-SD-001	EE09-SD-001
	EW03-SD-001	EE08-SD-001
	EE07-SD-001	EE02-SD-001
	EE04-SD-501	EE04-SD-001
	EE05-SD-001	

Notes: Samples were qualified due to matrix spike recoveries out of limits.

* Samples were qualified due to post digestion spike recoveries out of limits.

TABLE 6-2

METALS SAMPLE RESULTS QUALIFIED AS REJECTED (R) DUE TO MATRIX SPIKE RECOVERIES OUT OF THE CONTROL LIMIT

ANALYTES	SAMPLES AFFECTED	
Beryllium	EE10-SD-001 EW03-SD-001	EE07-SD-001 EE08-SD-001
Sodium	EW02-SD-001	EE10-SD-001

Notes: Samples were qualified due to matrix spike recoveries out of control limits (%R < = 30%).

TABLE 6-3

POTENTIAL METAL CONTAMINANTS DETECTED IN THE BLANK SAMPLES

Blank Sample ID	Type	Analyte	Concentration (mg/L)
SC-QW00-SW-000	Ambient Blank	Calcium	0.027
		Copper	0.0054
		Iron	0.03
		Manganese	0.0046
		Nickel	0.0091
		Silver	0.17
		Sodium	0.57
		Zinc	0.0073
		Lead	0.001
SC-EE01-SW-001-RIN	Rinsate Blank	Barium	0.0015
		Calcium	0.46
		Copper	0.0059
		Zinc	0.0086
		Lead	0.0018
SC-EE04-SW-001-RIN	Rinsate Blank	Barium	0.0021
		Calcium	0.68
		Magnesium	0.12
		Zinc	0.0081
		Copper	0.0024
		Lead	0.0013
SC-EE08-SW-001-RIN	Rinsate Blank	Aluminum	0.052
		Calcium	0.13
		Potassium	0.42
		Zinc	0.043
SC-EW01-SW-001-RIN	Rinsate Blank	Barium	0.0012
		Calcium	0.17
		Zinc	0.0055
ICP-SCAN-AR	Method Blank	Calcium	0.22
CNTOT-TEC-S	Method Blank	Cyanide	0.96
ICP-TAL-S	Method Blank	Calcium	28.6
		Magnesium	22.1
		Lead	0.32

TABLE 6-4

METAL ANALYTES QUALIFIED AS NOT DETECTED (U) IN ASSOCIATED SMAPLES BECAUSE OF PRESENCE IN BLANKS

Sample ID	Analyte	Original	Qualification
EC01-SW-001	Copper	0.0079 J	0.020 U
	Lead (total-6020)	0.0026	0.0026 U
	Lead (total-7241)	0.0013 J	0.005 U
	Zinc	0.03	0.030 U
EC02-SW-001	Copper	0.0074 J	0.020 U
	Lead (total-6020)	0.0024	0.0024 U
	Zinc	0.025	0.025 U
EE01-SW-001	Copper	0.0092 J	0.020 U
	Lead (total-6020)	0.0011	0.0011 U
	Lead (total-7241)	0.0027 J	0.005 U
	Manganese	0.0046 J	0.010 U
	Zinc	0.014 J	0.020 U
EE01-SW-501	Copper	0.0098 J	0.020 U
	Lead (total-6020)	0.0014	0.0014 U
	Manganese	0.0048 J	0.010 U
	Zinc	0.015 J	0.020 U
EE02-SW-001	Iron	0.11	0.11 U
	Lead (6020)	0.002	0.0020 U
	Manganese	0.0085J	0.010 U
EE03-SW-001	Iron	0.085 J	0.10 U
	Lead (6020)	0.0035	0.0035 U
	Manganese	0.0074J	0.010 U
	Zinc	0.026	0.026 U
EE04-SW-001	Lead (6020)	0.0022	0.0022 U
	Manganese	0.0056J	0.010 U
	Zinc	0.023	0.023 U
EE05-SW-001	Copper	0.02	0.020 U
	Copper (6020)	0.012	0.012 U
	Lead	0.0047J	0.005 U
	Zinc	0.039	0.039 U
EE06-SW-001	Aluminum	0.084 J	0.10 U
	Copper	0.024	0.024 U
	Iron	0.1	0.10 U
	Lead (6020)	0.0019	0.0019 U
	Manganese	0.011	0.011 U
	Potassium	2.0 J	5.0 U
	Zinc	0.025	0.025 U
EE07-SW-001	Aluminum	0.13	0.13 U
	Copper	0.022	0.022 U
	Iron	0.15	0.15 U
	Lead (6020)	0.0032	0.0032 U
	Lead (7421)	0.0015 J	0.005 U
	Manganese	0.013	0.013 U
	Zinc	0.029	0.029 U

TABLE 6-4

METAL ANALYTES QUALIFIED AS NOT DETECTED (U) IN ASSOCIATED SMAPLES BECAUSE OF PRESENCE IN BLANKS

Sample ID	Analyte	Original	Qualification
EE08-SW-001	Aluminum	0.060 J	0.10 U
	Copper	0.0094 J	0.020 U
	Lead (6020)	0.0023	0.0023 U
	Nickel	0.010 J	0.040 U
	Zinc	0.025	0.025 U
EE09-SW-001	Aluminum	0.056 J	0.10 U
	Copper	0.0095 J	0.020 U
	Nickel	0.014 J	0.040 U
	Zinc	0.024	0.024 U
EE10-SW-001	Copper	0.014 J	0.020 U
	Iron	0.014	0.014 U
	Lead	0.0023J	0.010 U
	Zinc	0.026	0.026 U
EW01-SW-001	Copper	0.011 J	0.020 U
	Lead	0.0022 J	0.005 U
	Nickel	0.039 J	0.040 U
	Zinc	0.025	0.025 U
EW02-SW-001	Copper	0.012 J	0.020 U
	Lead	0.0013 J	0.005 U
	Zinc	0.016 J	0.020 U
EW03-SW-001	Copper	0.012 J	0.020 U
	Lead	0.0019J	0.005 U
	Zinc	0.02	0.020 U

TABLE 6-5

RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (TOTAL AND RECOVERABLE METALS)

Field Duplicate Sample ID	Field Duplicate Results	Original Sample ID	Original Results	RPD
RMET : ALUMINUM (mg/kg)			**Average RPD =**	**84%**
EE08-SD-501	6210	EE08-SD-001	2420	87.83%
EE04-SD-501	4240	EE04-SD-001	1810	80.33%
TMET : ARSENIC (mg/kg)			**Average RPD =**	**6%**
EE08-SD-501	1.6	EE08-SD-001	1.7	6.06%
RMET : BARIUM (mg/kg or mg/L)			**Average RPD =**	**32%**
EE01-SW-501	0.45	EE01-SW-001	0.44	2.25%
EE08-SD-501	342	EE08-SD-001	194	55.22%
EE04-SD-501	350	EE04-SD-001	235	39.32%
RMET : CADMIUM (mg/kg)			**Average RPD =**	**40%**
EE08-SD-501	13.2	EE08-SD-001	12.6	4.65%
EE04-SD-501	8	EE04-SD-001	3.6	75.86%
RMET : CALCIUM (mg/kg or mg/L)			**Average RPD =**	**16%**
EE01-SW-501	42.3	EE01-SW-001	41.3	2.39%
EE08-SD-501	8550	EE08-SD-001	10900	24.16%
EE04-SD-501	25800	EE04-SD-001	20500	22.89%
RMET : CHROMIUM (mg/kg)			**Average RPD =**	**71%**
EE08-SD-501	121	EE08-SD-001	44.3	92.80%
EE04-SD-501	178	EE04-SD-001	108	48.95%
RMET : COBALT (mg/kg)			**Average RPD =**	**8%**
EE08-SD-501	5.5	EE08-SD-001	5.1	7.55%
RMET : COPPER (mg/kg)			**Average RPD =**	**103%**
EE08-SD-501	23.1	EE08-SD-001	8	97.11%
EE04-SD-501	123	EE04-SD-001	36.4	108.66%
RMET : IRON (mg/kg)			**Average RPD =**	**70%**
EE08-SD-501	8170	EE08-SD-001	5580	37.67%
EE04-SD-501	9030	EE04-SD-001	2900	102.77%
TMET : LEAD (mg/kg)			**Average RPD =**	**91%**
EE04-SD-501	91.3	EE04-SD-001	245	91.41%

TABLE 6-5

RELATIVE PERCENT DIFFERENCE FOR FIELD DUPLICATES (TOTAL AND RECOVERABLE METALS)

Field Duplicate Sample ID	Field Duplicate Results	Original Sample ID	Original Results	RPD
RMET : MAGNESIUM (mg/kg or mg/L)			**Average RPD =**	**44%**
EE01-SW-501	20.4	EE01-SW-001	19.9	2.48%
EE08-SD-501	4220	EE08-SD-001	1380	101.43%
EE04-SD-501	2620	EE04-SD-001	1990	27.33%
RMET : MANGANESE (mg/kg)			**Average RPD =**	**77%**
EE08-SD-501	316	EE08-SD-001	890	95.19%
EE04-SD-501	179	EE04-SD-001	98.7	57.83%
RMET : NICKEL (mg/kg)			**Average RPD =**	**56%**
EE08-SD-501	28.3	EE08-SD-001	14.1	66.98%
EE04-SD-501	36.6	EE04-SD-001	23.1	45.23%
RMET : POTASSIUM (mg/L)			**Average RPD =**	**18%**
EE01-SW-501	1.8	EE01-SW-001	1.5	18.18%
RMET : SODIUM (mg/L)			**Average RPD =**	**4%**
EE01-SW-501	13.4	EE01-SW-001	12.9	3.80%
RMET : VANADIUM (mg/kg or mg/L)			**Average RPD =**	**53%**
EE01-SW-501	0.015	EE01-SW-001	0.014	6.90%
EE08-SD-501	16.2	EE08-SD-001	11.2	36.50%
EE04-SD-501	26.2	EE04-SD-001	7.1	114.71%
RMET : ZINC (mg/kg)			**Average RPD =**	**75%**
EE08-SD-501	49.9	EE08-SD-001	18.8	90.54%
EE04-SD-501	173	EE04-SD-001	93.7	59.47%

TABLE 6-6

SAMPLES ANALYZED WITH DILUTION
(METALS)

Sample ID	Prep Dilution Factor		Analysis Dilution Factor	
Metals-Soil	ICP	FAA	ICP	FAA
EE02-SD-001	100	100	Ca only	Hg (500)
EE04-SD-001	100	100		Hg (500)
EE04-SD-501	100	100		Hg (500)
EE03-SD-001	100	100	Ca only	Hg (500)
EE05-SD-001	100	100		Hg (500)
EC01-SD-001	100	100		As (2), Tl (2), Hg (500)
EC02-SD-001	100	100	Ca only	As (2), Se (2), Tl (2), Hg (500)
EE01-SD-001	100	100		As (2), Se (2), Tl (2), Hg (500)
EE07-SD-001	100	100		As (2), Hg (500)
EE08-SD-001	100	100		As (2), Hg (500)
EE08-SD-501	100	100		As (2), Hg (500)
EE06-SD-001	100	100		As (2), Hg (500)
EE09-SD-001	100	100		As (2), Hg (500), Tl (2)
EE09-SW-001	1	1		Tl (2)
EE08-SW-001	1	1		Tl (5)
EE10-SW-001		100		As (2), Tl (5)
EW01-SD-001	1	100		Hg (500), Se (4)
EW02-SD-001	1	100		Hg (500)
EE10-SD-001	1	100		Hg (500)
EW03-SD-001	100	100		Hg (500)
EE04-BT-001	100			
EE08-BT-001	100			
EC01-BT-001	100			
EC07-BT-001	100			
EE09-BT-001	100			

Section B

1995 Data Validation Report

TABLE OF CONTENTS

Section			Page
1.0	INTRODUCTION		1-1
2.0	PARCC PARAMETERS		2-1
	2.1 PRECISION		2-1
	2.2 ACCURACY		2-1
		2.2.1 Matrix Spike Percent Recovery	2-1
		2.2.2 Surrogate Percent Recovery	2-2
		2.2.3 Single and Duplicate Control Sample Percent Recovery	2-2
		2.2.4 Calibrations	2-3
		2.2.4.1 Initial Calibrations	2-3
		2.2.4.2 Continuing Calibrations	2-3
		2.2.5 Internal Standard Performance	2-3
		2.2.6 Graphite Furnace Atomic Absorption Post-Digestion Spike Percent Recovery	2-3
	2.3 REPRESENTATIVENESS		2-4
		2.3.1 Holding Times	2-4
		2.3.2 Blanks	2-4
		2.3.2.1 Method Blanks	2-4
		2.3.2.2 Field Blanks (Rinsates and Ambient)	2-5
		2.3.2.3 Trip Blanks	2-5
		2.3.3 Field Duplicates	2-5
	2.4 COMPLETENESS		2-5
	2.5 COMPARABILITY		2-6
	2.6 SENSITIVITY		2-6
3.0	VOLATILE ORGANIC COMPOUNDS		3-1
	3.1 PRECISION		3-1
		3.1.1 Matrix Spikes/Matrix Spike Duplicates	3-1
		3.1.2 Duplicate Control Samples	3-1
	3.2 ACCURACY		3-1
		3.2.1 Matrix Spike Percent Recovery	3-1
		3.2.2 Surrogate Percent Recovery	3-2
		3.2.3 Single and Duplicate Control Sample Percent Recovery	3-2
		3.2.4 Calibrations	3-2
		3.2.4.1 Initial Calibrations	3-2
		3.2.4.2 Continuing Calibrations	3-3
		3.2.5 Internal Standard Performance	3-3

Section			Page
	3.3	REPRESENTATIVENESS	3-3
		3.3.1 Holding Times	3-3
		3.3.2 Blanks	3-3
		3.3.2.1 Method Blanks	3-4
		3.3.2.2 Field Blanks (Rinsates and Ambient)	3-4
		3.3.2.3 Trip Blanks	3-5
		3.3.3 Field Duplicates	3-5
	3.4	COMPLETENESS	3-5
	3.5	COMPARABILITY	3-5
	3.6	SENSITIVITY	3-5
4.0		SEMIVOLATILE ORGANIC COMPOUNDS	4-1
	4.1	PRECISION	4-1
		4.1.1 Matrix Spikes/Matrix Spike Duplicates	4-1
		4.1.2 Duplicate Control Samples	4-1
	4.2	ACCURACY	4-1
		4.2.1 Matrix Spike Percent Recovery	4-1
		4.2.2 Surrogate Percent Recovery	4-2
		4.2.3 Single and Duplicate Control Sample Percent Recovery	4-2
		4.2.4 Calibrations	4-2
		4.2.4.1 Initial Calibrations	4-2
		4.2.4.2 Continuing Calibrations	4-2
		4.2.5 Internal Standard Performance	4-2
	4.3	REPRESENTATIVENESS	4-3
		4.3.1 Holding Times	4-3
		4.3.2 Blanks	4-3
		4.3.2.1 Method Blanks	4-3
		4.3.2.2 Field Blanks (Rinsates and Ambient)	4-3
		4.3.3 Field Duplicates	4-3
	4.4	COMPLETENESS	4-4
	4.5	COMPARABILITY	4-4
	4.6	SENSITIVITY	4-4
5.0		PESTICIDE/PCB COMPOUNDS	5-1
	5.1	PRECISION	5-1
		5.1.1 Matrix Spikes/Matrix Spike Duplicates	5-1

Section			Page
	5.1.2	Duplicate Control Samples	5-1
5.2	ACCURACY		5-1
	5.2.1	Matrix Spike Percent Recovery	5-1
	5.2.2	Surrogate Percent Recovery	5-2
	5.2.3	Single and Duplicate Control Sample Percent Recovery	5-2
	5.2.4	Calibrations	5-2
		5.2.4.1 Initial Calibrations	5-2
		5.2.4.2 Continuing Calibrations	5-2
5.3	REPRESENTATIVENESS		5-3
	5.3.1	Holding Times	5-3
	5.3.2	Blanks	5-3
		5.3.2.1 Method Blanks	5-3
		5.3.2.2 Field Blanks (Rinsates and Ambient)	5-3
	5.3.3	Field Duplicates	5-3
5.4	COMPLETENESS		5-4
5.5	COMPARABILITY		5-4
5.6	SENSITIVITY		5-4
6.0	METALS		
6.1	PRECISION		6-1
	6.1.1	Matrix Spikes/Matrix Spike Duplicates	6-1
	6.1.2	Duplicate Control Samples	6-1
6.2	ACCURACY		6-1
	6.2.1	Matrix Spike Percent Recovery	6-2
	6.2.2	Duplicate Control Sample Percent Recovery	6-2
	6.2.3	Calibrations	6-2
		6.2.3.1 Initial Calibrations	6-2
		6.2.3.2 Continuing Calibrations	6-2
	6.2.4	Graphite Furnace Atomic Absorption Post-Digestion Spike Percent Recovery	6-3
6.3	REPRESENTATIVENESS		6-3
	6.3.1	Holding Times	6-3
	6.3.2	Blanks	6-3
		6.3.2.1 Method Blanks	6-3
		6.3.2.2 Field Blanks (Rinsates and Ambient)	6-3
	6.3.3	Field Duplicates	6-4

Section			Page
	6.4	COMPLETENESS	6-4
	6.5	COMPARABILITY	6-4
	6.6	SENSITIVITY	6-5
7.0	GENERAL INORGANICS		
	7.1	PRECISION	7-1
		7.1.1 Matrix Spikes/Matrix Spike Duplicates	7-1
		7.1.2 Duplicate Control Samples	7-1
	7.2	ACCURACY	7-1
		7.2.1 Matrix Spike Percent Recovery	7-2
		7.2.2 Duplicate Control Sample Percent Recovery	7-2
		7.2.3 Calibrations	7-2
		7.2.3.1 Initial Calibrations	7-2
		7.2.3.2 Continuing Calibrations	7-2
	7.3	REPRESENTATIVENESS	7-2
		7.3.1 Holding Times	7-2
		7.3.2 Blanks	7-3
		7.3.2.1 Method Blanks	7-3
		7.3.2.2 Field Blanks (Rinsates and Ambient)	7-3
		7.3.3 Field Duplicates	7-3
	7.4	COMPLETENESS	7-3
	7.5	COMPARABILITY	7-3
	7.6	SENSITIVITY	7-4
8.0	CONCLUSIONS		8-1
9.0	REFERENCES		9-1

LIST OF TABLES

TABLE 2-1 FIELD SAMPLES USED FOR MS/MSDs AND FIELD DUPLICATE SAMPLES
TABLE 3-1 SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE INITIAL AND CONTINUING CALIBRATIONS FOR VOC ANALYSIS
TABLE 3-2 VOLATILE COMPOUNDS FOUND IN METHOD BLANKS AND ASSOCIATED SAMPLES
TABLE 3-3 ANALYTES QUALIFIED NOT DETECTED (U) AS A RESULT OF METHOD BLANK CONTAMINATION IN SDG 42721
TABLE 3-4 VOLATILE COMPOUNDS FOUND IN THE FIELD BLANKS AND QUALIFIERS
TABLE 3-5 RESULTS OF REPLICATE TISSUE SAMPLES FOR VOC ANALYSIS
TABLE 4-1 SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE CONTINUING CALIBRATIONS FOR SVOC ANALYSIS
TABLE 4-2 RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR SVOCs
TABLE 4-3 SVOC SAMPLES ANALYZED WITH DILUTION
TABLE 5-1 PESTICIDE/PCB SAMPLES ANALYZED WITH DILUTION
TABLE 5-2 RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR PESTICIDES/PCBs
TABLE 5-3 RESULTS OF REPLICATE TISSUE SAMPLES FOR PESTICIDES/PCBS
TABLE 6-1 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS OUT OF CONTROL FOR METALS ANALYSIS
TABLE 6-2 QUALIFICATIONS DUE TO QUALITY CONTROL MEASUREMENTS OUT OF CONTROL FOR METALS ANALYSIS
TABLE 6-3 METALS SAMPLES ANALYZED WITH DILUTION
TABLE 6-4 RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR METALS
TABLE 6-5 RESULTS OF REPLICATE TISSUE SAMPLES FOR METALS
TABLE 6-6 METALS DETECTION LIMITS RAISED DUE TO MATRIX INTERFERENCES
TABLE 7-1 CYANIDE SAMPLES QUALIFIED DUE TO HOLDING TIMES
TABLE 7-2 RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR TOC

LIST OF ACRONYMS

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
CCS	Contract Compliance Screening
CLP	Contract Laboratory Program
DCS	Duplicate Control Sample
DQO	Data Quality Objective
GC/MS	Gas Chromatograph/Mass Spectrometer
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma Emission Spectrometry
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	Precision, Accuracy, Representativeness, Completeness, and Comparability
PCB	Polychlorinated Biphenyl
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QES	Quanterra Environmental Services
RPD	Relative Percent Difference
RRF	Relative Response Factor
SCS	Single Control Sample
SDG	Sample Delivery Group
SVOC	Semivolatile Organic Compound
TOC	Total Organic Carbon
TIC	Tentatively Identified Compound
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
WCFS	Woodward-Clyde Federal Services

1.0
INTRODUCTION

During June 1995, 25 biological tissue samples, 15 sediment samples and 15 surface water samples, along with 20 quality assurance samples (4 rinsate blanks, 3 trip blanks, 1 ambient blank, 2 surface water field duplicate samples, 2 sediment field duplicate samples, 2 sets of surface water field designated matrix spike/matrix spike duplicates and 2 sets of sediment field designated matrix spike/matrix spike duplicates) were collected at Soldier Creek, Tinker Air Force Base, Oklahoma City, Oklahoma in support of the second ecological assessment. These samples were shipped to Quanterra Environmental Services (QES)[1] and analyzed by United States Environmental Protection Agency (USEPA) SW-846 methods (USEPA, 1992) for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (PCBs), metals, cyanide, and total organic carbon (TOC) as specified in the Woodward-Clyde Federal Services' (WCFS) Quality Assurance Project Plan (QAPP), Quarterly Monitoring and Ecological Assessment, Tinker Air Force Base, Oklahoma City, Oklahoma (WCFS 1994). The VOC and SVOC analyses were for the Appendix IX list of analytes. Three sample delivery groups (SDGs) were analyzed for each analytical method performed. This report summarizes the data validation results for SDG 42721 and SDG 42823 for VOC, SVOC, pesticides/PCBs, metals, cyanide and TOC.

A Quality Assurance/Quality Control (QA/QC) review was performed by QES. A QA/QC data assessment was performed by WCFS. This assessment was a full validation of two SDGs containing more than forty percent of the data using the SW-846 methods (USEPA, 1992) and the EPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic and Inorganic Data Review (Guidelines) (USEPA, 1994a, 1994b). The quality of the remainder of the data was not assessed. Data assessment is herein defined as the systematic, structured process of evaluating, editing, screening, checking, verifying, and reviewing to assure that analytical data are in compliance with established criteria and are valid for the intended use.

[1] Quanterra Environmental Services. 4955 Yarrow Street, Arvada, Colorado 80002.

The full validation consisted of a review of SW-846 results summary sheets and instrument reports for QA/QC parameters such as matrix spikes (MS), matrix spike duplicates (MSDs), detection limits, calibrations, duplicate control samples (DCS), single control samples (SCS), chain of custody forms, sample preparations, holding times, etc. In addition the review, consisted of recalculating laboratory data and standard calibration curves, checking for transcription errors, and carefully checking chromatograms and reconstructed ion chromatograms. The purpose of the full validation is to evaluate whether laboratory performance and analytical data are in compliance with method requirements and project specifications for accuracy, precision, validity, and completeness.

The data assessment process provides information on analytical limitations of data based on regulatory or method specific QA/QC criteria. In addition, the review process assigns data qualifiers and provides a statement concerning usability of data. To ensure the data gathered during the investigation activities are adequate; precision, accuracy, representativeness, completeness, and comparability (PARCC) parameter targets have been identified for Level III analyses during the development of Data Quality Objectives (DQOs) and planning of the field activities. Level III analyses included all laboratory analyses using EPA methods. Quality of the analytical data is indicated by the calculation of values for precision, accuracy, and completeness. The quantitative target values for precision, accuracy, and completeness are as follows:

- Precision = 20 percent
- Accuracy = control limits specified for the particular analysis
- Completeness = 90 percent

Comparability and representativeness are assessed in a qualitative evaluation of the data generated during the field investigation. This report summarizes the findings of the data assessment.

2.0
PARCC PARAMETERS

The PARCC parameters are identified specifically in Section 13.0 of the QAPP (WCFS, 1994).

2.1 PRECISION

Precision is a measure of agreement between a set of duplicate measurements and is used as a check on the quality of the analytical procedures. Precision is assessed through the calculation of a relative percent difference (RPD) between duplicate analytical results of a sample component. Sets of MS/MSDs and DCS provide the duplicate results which are used to calculate RPD.

2.2 ACCURACY

Accuracy is a measure of the nearness of a result to the true value. Possible causes of low accuracy are field or laboratory contamination, preservation, handling, sample matrix, sample preparation, and analytical techniques. Accuracy is assessed through the use of reference materials and is expressed as the percent recovery (%R) of the known concentration. The accuracy of reported data is assessed through %Rs from MS, surrogates, DCS, SCS, and instrument performance during instrument calibration (initial calibration, continuing calibration, and internal standards performance).

2.2.1 Matrix Spike Percent Recovery

A matrix is defined as the predominant material composition of the sample to be analyzed. A matrix is usually referred to as aqueous, soil, or solid, but is not synonymous with phase (liquid or solid). A measured portion of a sample which has been fortified (spiked) with known quantities of specific compounds is referred to as a MS. A second spiked portion of the same matrix is the MSD. After being spiked, the MS/MSD samples are subjected to the complete analytical procedure. The %R is calculated for each spiked analyte and must meet established

SW-846 control limits (USEPA, 1992). In addition to providing an indication of accuracy, the %R value indicates the appropriateness (the precision) of the method for the matrix. Sample matrix effects are evaluated using MS/MSDs. The samples utilized for MS/MSDs are shown in **Table 2-1**.

2.2.2 Surrogate Percent Recovery

Organic data accuracy is assessed on an individual sample basis using surrogate compound %Rs. Surrogate standards are intended to represent the entire suite of analyzed compounds with similar chemical and physical characteristics. These compounds are spiked into all blanks, calibration standards, samples, and MS/MSDs, DCS, and SCS prior to sample preparation and analysis. The %R is calculated for each surrogate and must meet established SW-846 control limits to be acceptable (USEPA, 1992).

Inorganic analyses do not incorporate the use of surrogate compounds.

2.2.3 Single and Duplicate Control Sample Percent Recovery

The SCS and DCS are well-characterized, laboratory generated samples used to monitor the laboratory's daily performance of analytical methods independent of matrix effects. The laboratory analyzed DCS with each analytical batch of samples for each sample preparation method. The DCS consists of a control matrix that is spiked with target analytes. For VOC and SVOC analyses the SCS consists of a control matrix that is spiked with surrogate compounds. For both SCS and DCS the %Rs are calculated for each of the analytes detected and must meet the control limits established by the laboratory in order to be acceptable.

2.2.4 Calibrations

2.2.4.1 Initial Calibrations

Instruments must be calibrated correctly in order to ensure the accuracy and precision of the sample results. For organic analyses the relative response factors (RRFs) must be at least 0.05 for each compound. Also, the percent relative standard deviations (%RSDs) between the RRFs for the same compound but different standards must be within 30.0 percent. For inorganic analyses, the calibration curves must be linear, and the initial calibration verification %Rs must be within the control limits.

2.2.4.2 Continuing Calibrations

Instruments must be checked on a regular basis to ensure that the calibration curve is still valid. For organic analyses, the percent difference (%D) between the average RRF for a compound and the continuing calibration RRF must be within 25.0 percent. For inorganic analyses, the continuing calibration verification %Rs must be within the control limits.

2.2.5 Internal Standard Performance

For VOC and SVOC analyses all standards and samples are spiked with internal standards. Quantitation of target compound concentrations in a sample is based upon internal standard areas for that sample. This eliminates some of the variability in sample results due to injection technique and gas chromatograph/mass spectrometer (GC/MS) sensitivity and response. Internal standard areas and retention times must be within control limits.

2.2.6 Graphite Furnace Atomic Absorption Post-Digestion Spike Percent Recovery

Duplicate injections and Graphite Furnace Atomic Adsorption (GFAA) post-digestion spikes establish the precision and accuracy of the individual GFAA analytical measurements for arsenic, lead, selenium and thallium.

2.3 REPRESENTATIVENESS

Representativeness is a qualitative determination of the degree to which sample data accurately and precisely represent actual site conditions. The criterion for representativeness is best satisfied by making certain that sampling locations are properly selected and a sufficient number of samples are collected. Confirmation that specified holding times were met and examination of the results obtained from blanks provide a measure of assurance that the samples collected are representative of the sampling points.

2.3.1 Holding Times

Holding time is defined, according to a specific method, regulation, or project requirement, as the period of time during which samples, after collection and preservation, may be stored prior to analysis.

2.3.2 Blanks

Potential contamination is evaluated through the use of method blanks, field blanks (rinsates and ambient), and trip blanks.

2.3.2.1 Method Blanks

Method blank analyses are used to assess possible sample contamination due to laboratory procedures and/or equipment. Method blanks are analytical control samples consisting of all reagents, internal standards, and surrogate standards. These blanks are subjected to the same laboratory preparation and analytical processes as the samples.

2.3.2.2 Field Blanks (Rinsates and Ambient)

Field blanks are used to evaluate potential cross-contamination of samples due to sample handling and field sampling equipment. Rinsate blanks are prepared by rinsing the sampling equipment with analyte-free laboratory grade water immediately following the equipment decontamination procedure. An ambient blank is prepared by pouring analyte-free laboratory-grade water into a sample container at the site. The ambient blank allows the evaluation of potential cross-contamination due to field sample handling and the evaluation of the quality of the laboratory reagent water used for decontamination.

2.3.2.3 Trip Blanks

Trip blanks are used to assess effects of shipping activities on investigative sample data. Trip blanks, prepared using analyte-free laboratory-grade water, are kept with the VOC sample containers during shipment to the laboratory for analysis.

2.3.3 Field Duplicates

Field duplicates are collected to check the representativeness of the field samples. The RPD between field duplicate results should be adequately low to ensure that sampling and analytical techniques can be reproduced. The samples duplicated and the field duplicate samples are listed in **Table 2-1**.

2.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid.

2.5 COMPARABILITY

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another. Sample data should be comparable with other measurement data for similar samples and conditions. This goal is achieved by using standard techniques to collect and analyze representative samples and reporting analytical results in the appropriate units.

2.6 SENSITIVITY

Sensitivity is the ability of an instrument to detect minute changes in concentration. Sensitivity is evaluated through dilutions and quantitation limits of chemical analysis.

3.1 PRECISION

Based on the findings in 3.1.1 and 3.1.2, the overall precision for VOC analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

3.1.1 Matrix Spikes/Matrix Spike Duplicates

The samples utilized for MS/MSD analyses are shown in **Table 2-1**. Values for RPD were calculated for each VOC spiked in the MS/MSD samples. RPDs were acceptable for all VOCs.

3.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each sample preparation method. For VOCs the control matrix was spiked with target compounds (1,1-dichloroethene, trichloroethene, benzene, toluene, and chlorobenzene) at 5-100 times the reporting limit.

RPDs were calculated for the spiked compounds in the laboratory DCS. All RPDs met the appropriate criteria.

3.2 ACCURACY

Based on the findings in 3.2.1 , 3.2.2 and 3.2.3, the overall accuracy for VOC analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

3.2.1 Matrix Spike Percent Recovery

All of the MS/MSD %Rs for VOCs met the acceptance criteria.

3.2.2 Surrogate Percent Recovery

The surrogates used for Method 8240 were toluene-d8, 4-bromofluorobenzene, and 1,2-dichloroethane-d4. All surrogate %Rs for sediment and water VOCs were within the acceptable range in all samples and trip blanks. The tissue samples demonstrated a matrix bias to the surrogate %Rs. The recoveries of 4-bromofluorobenzene averaged 76% with a range of 68-84%. The recoveries of toluene-d8 averaged 117% with a range of 107-126%. This caused several tissue samples to have unacceptable %Rs. Due to the fact that these are matrix related, the samples were not qualified.

3.2.3 Single and Duplicate Control Sample Percent Recovery

The laboratory analyzed an SCS and a DCS with each analytical batch of samples for each organic method. For VOC analyses, the SCS consists of a control matrix that is spiked with surrogates (1,2-dichloroethane-d4, 4-bromofluorobenzene, and toluene-d8). All %Rs for the SCS and DCS for VOC analyses were within the acceptable range.

3.2.4 Calibrations

3.2.4.1 Initial Calibrations

All initial calibrations for VOC analyses met the required criteria except two relative response factors (RRFs) and two relative percent differences (RPDs) of sediment compounds, four RRFs and one RPD of aqueous compounds, and two RRFs and two RPDs of tissue compounds. The removal of the low level standard RRF or in the case of cyclohexanone, the removal of the two highest standard RRFs, brought the RPDs into compliance. No action was necessary due to RPDs. The initial calibration for the aqueous analyses did not include one compound, 2-nitropropane, and used a single point calibration for one compound, ethanol. Both of these compounds were qualified. The VOCs qualified as a result of unacceptable initial calibration criteria are shown in **Table 3-1**.

3.2.4.2 Continuing Calibrations

All continuing calibrations for VOC analyses met the required criteria except for the VOCs listed in **Table 3-1**. The compounds outside the continuing calibration criteria which are not detected in the associated samples were qualified as not detected with the quantitation limit estimated (UJ) at the reporting limit. The compounds with detected quantities were qualified as estimated (J). The compounds with relative response factors below 0.05 or not analyzed were qualified as unusable (R).

3.2.5 Internal Standard Performance

Internal standards performance criteria ensure that GC/MS sensitivity and response are stable during every analytical run. For VOC analyses, internal standard peak areas and retention times are used to assess GC/MS performance. All internal standard peak areas and retention times were within control limits. Therefore, the GC/MS performance was acceptable.

3.3 REPRESENTATIVENESS

3.3.1 Holding Times

All holding times were met for analysis of VOCs for all samples in SDG 42721. Three tissue samples from SDG 42823 exceeded the holding time of 14 days. The samples were held six days before homogenization and then another 10 days until analysis. These sample numbers are CR-EC02-BT-201, CR-EC02-BT-202, and SC-EW02-BT-203. It is not known what effect this non-compliance has on tissue samples, but it is not considered to be significant. All compounds detected in these three samples are qualified as estimated concentrations (J), and the non-detected compounds as not detected with the quantitation limit estimated (UJ).

3.3.2 Blanks

Results of each category of blanks for VOC analyses are discussed in the following sections.

3.3.2.1 Method Blanks

The VOC compounds found in method blanks and associated (soil and water) samples of SDG 42721 are shown in **Table 3-2**. The only VOCs detected in the sediment method blank were acetone and 2-butanone. Only methylene chloride was detected in the aqueous method blank. Methylene chloride, 2-butanone, and acetone are specified as common laboratory contaminants (USEPA, 1994a). Methylene chloride, 2-butanone, and acetone were qualified as not detected (U) in associated samples according to the Guidelines (USEPA, 1994a). The qualifications due to method blank contamination are shown in **Table 3-3.** The method blank for the tissue samples is an analytical blank and does not represent the contamination encountered during homogenization. The samples appeared to have been contaminated with methylene chloride, acetone, and 2-butanone during the grinding/homogenization procedure. The laboratory explained that methylene chloride and acetone were used to clean the equipment between samples. The 2-butanone was most likely a contaminant in the acetone. Therefore, it is our feeling that these common laboratory contaminants should not be considered as present in the samples.

3.3.2.2 Field Blanks (Rinsates and Ambient)

Four rinsate blanks and one ambient blank were collected. The VOCs detected in the ambient blank include chloroform and bromodichloromethane **(Table 3-4)** which are organochlorine compounds commonly found in chlorine treated water. Methylene chloride was also present in the ambient blank. The rinsate sample in SDG 42721 (SC-EE02-SW-201-RIN) also contained methylene chloride, bromodichloromethane and chloroform. The other rinsate samples were not reviewed. No investigative samples contain biomodichloromethane or chloroform. There also were not any sediment samples containing methylene chloride. Therefore, it appears that the water used for the ambient blank and rinsate samples was contaminated with bromodichloromethane, chloroform and methylene chloride. The rinsate sample was qualified as shown in **Table 3-4** as a result of this contamination.

3.3.2.3 Trip Blanks

The only VOC analyte detected in the trip blank from SDG 42721 was methylene chloride. All methylene chloride reported in the associated samples has been qualified previously as (U) because of method blank contamination (see **Section 3.3.2.1**). No further action was required.

3.3.3 Field Duplicates

The field duplicate samples did not have any detectable VOCs other than the common laboratory contaminants which were previously qualified as (U) because of method blank contamination (see **Section 3.3.2.1**). The replicate tissue samples had only one set with a VOC, shown in **Table 3-5**. The reproducibility for these was reasonable for replicate tissue samples.

3.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid. Completeness of the VOC data is greater than 90 percent and is acceptable.

3.5 COMPARABILITY

The sampling procedures for VOC samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). VOC samples were analyzed by Method 8240 as required. All reporting units for VOC analyses were consistent. Therefore, comparability of the VOC data is acceptable.

3.6 SENSITIVITY

There were not any dilutions required and laboratory quantitation limits achieved in VOC analyses met the project requirements. Sensitivity for the VOC analyses was acceptable.

4.0
SEMIVOLATILE ORGANIC COMPOUNDS

4.1 PRECISION

Based on the findings in 4.1.1 and 4.1.2, the overall precision for SVOC analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

4.1.1 Matrix Spikes/Matrix Spike Duplicates

The samples utilized for MS/MSD analyses are shown in **Table 2-1**. RPDs were calculated for each SVOC spiked into the MS/MSD samples. RPDs were acceptable for all SVOCs.

4.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each sample preparation method. The samples were spiked with target compounds at 5-100 times the reporting limit. RPD values were calculated for SVOCs spiked into the laboratory DCS. The RPDs were within the chemical specific criteria.

4.2 ACCURACY

Based on the findings in 4.2.1, 4.2.2 and 4.2.3, the overall accuracy for SVOC analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

4.2.1 Matrix Spike Percent Recovery

All of the MS/MSD %Rs for SVOCs met the acceptance criteria.

4.2.2 Surrogate Percent Recovery

All surrogate %Rs for SVOCs were within the acceptable range in all samples.

4.2.3 Single and Duplicate Control Sample Percent

The laboratory analyzed an SCS and DCS with each analytical batch of samples for each organic method. For SVOC analysis, the SCS consists of a control matrix that is spiked with surrogate compounds. All %Rs for the SCS and DCS for SVOC analyses were within the acceptable range.

4.2.4 Calibrations

4.2.4.1 Initial Calibrations

The initial calibrations for SVOC analyses met the required criteria, except for the RSD for 4-nitroquinoline-1-oxide which exceeded 30%. After the removal of the lowest standard, the RSD met criteria. No qualification was required.

4.2.4.2 Continuing Calibrations

All continuing calibrations for SVOC analyses met the required criteria except for the SVOCs listed in **Table 4-1**. The SVOCs with %Ds outside the criteria which are not detected in the associated samples were qualified as not detected with the quantitation limit estimated (UJ). The SVOCs with detected quantities were qualified as estimated (J). The SVOCs with relative response factors below 0.05 were qualified as unusable (R).

4.2.5 Internal Standard Performance

All internal standards for SVOC analyses met the required criteria.

4.3 REPRESENTATIVENESS

4.3.1 Holding Times

All holding times were met for preparation and analysis of SVOCs for all samples.

4.3.2 Blanks

Results of each category of blanks for SVOC analyses are discussed in the following sections.

4.3.2.1 Method Blanks

No target SVOCs were detected in the method blanks for SDGs 42721 and 42823. The sediment method blank had two TICs identified. They were methyl cyclohexane and 4-hydroxy-4-methyl-2-pentanone. These two TICs were removed from the sediment sample TIC results.

4.3.2.2 Field Blanks (Rinsates and Ambient)

Four rinsate blanks and one ambient blank were collected in this investigation. No SVOCs were detected in the rinsate blank for SDG 42721 nor in the ambient blank.

4.3.3 Field Duplicates

Two field duplicate sets were collected during the field investigation. Results of the field duplicate SVOC analyses for SDG 42721 are shown in **Table 4-2**. Only those analytes or compounds with more than one positive result in investigative samples are shown. The precision shown for the field duplicate is the result of variability in analytical technique, variability in sample collection, and analytical results close to the detection limit for several compounds. Bis(2-ethylhexyl) phthalate is a common phthalate contaminant which may be present from sampling, sample handling or laboratory contamination. The reproducibility of this systematic contamination is not predictable and most likely caused the high RPD results.

4.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid. Completeness of the SVOC data is greater than 90 percent and is acceptable.

4.5 COMPARABILITY

Comparability of the SVOC data is acceptable. The sampling procedures for SVOC samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). SVOC samples were analyzed by Method 8270 as required. All reporting units for SVOC analyses were consistent with the matrix.

4.6 SENSITIVITY

Several samples required dilutions for SVOC analyses due to elevated concentrations of target or non-target compounds. Samples which required dilutions and corresponding dilution factors are presented in **Table 4-3**. Laboratory quantitation limits for SVOC analyses met the project requirements. Sensitivity for SVOC analyses was acceptable.

5.1 PRECISION

Based on the findings in 5.1.1 and 5.1.2, the overall precision for the analysis of pesticides/PCBs was acceptable. The acceptance criteria are identified in Chapter 1.0.

5.1.1 Matrix Spikes/Matrix Spike Duplicates

The samples utilized for MS/MSD analyses are shown in **Table 2-1**. RPDs were calculated for each pesticide spiked into the MS/MSD samples. RPDs were acceptable for all pesticides.

5.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each organic method. For pesticides the control matrix was spiked with target compounds (gamma-BHC, heptachlor, aldrin, dieldrin, endrin, and 4,4'-DDT) at 5-100 times the reporting limit.

RPDs were calculated for the spiked compounds in the DCS. All RPDs met the appropriate criteria.

5.2 ACCURACY

Based on the findings in 5.2.1, 5.2.2 and 5.2.3, the overall accuracy for pesticide/PCB analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

5.2.1 Matrix Spike Percent Recovery

All of the MS/MSD %Rs for pesticide/PCB analyses met the acceptance criteria.

5.2.2 Surrogate Percent Recovery

The surrogates used for Method 8080 were dibutyl chlorendate (DBC), decachlorobiphenyl (DCB), and tetrachloro-m-xylene (TCX). At least one surrogate %R for each sample was acceptable, although eight samples were run at dilutions which caused the surrogate not to be detected (**Table 5-1**). The dilutions were required due to high levels of target analytes. No qualification of the data was required.

5.2.3 Single and Duplicate Control Sample Percent

The laboratory analyzed an SCS and a DCS with each analytical batch of samples for each organic method. For pesticide/PCB analyses, the SCS consists of a control matrix that is spiked with a surrogate, dibutyl chlorendate. All %Rs for the DCS for pesticide/PCB analyses were within the acceptable range. The %R for dibutyl chlorendate was low in the SCS analyzed with the tissue samples. No qualification was required.

5.2.4 Calibrations

5.2.4.1 Initial Calibrations

All initial calibrations for pesticide/PCB analyses met the required criteria.

5.2.4.2 Continuing Calibrations

Continuing calibrations for pesticide/PCB analyses met the required criteria.

5.3 REPRESENTATIVENESS

5.3.1 Holding Times

All holding times were met for pesticide/PCB analyses of all samples.

5.3.2 Blanks

Results of each category of blanks for pesticide/PCB analyses are discussed in the following sections.

5.3.2.1 Method Blanks

No pesticides/PCBs were detected in the method blanks.

5.3.2.2 Field Blanks (Rinsates and Ambient)

Two rinsate blanks and one ambient blank were collected in the investigation. No pesticides/PCBs were detected in the field blanks of SDG 42721.

5.3.3 Field Duplicates

Two field duplicate sets were collected during the field investigation. Results of the field duplicate pesticide/PCB analyses for SDG 42721 are shown in **Table 5-2**. Only those analytes or compounds with more than one positive result in investigative samples are shown. The results of the tissue replicate samples are shown in **Table 5-3**. Fourteen of the fifteen tissue samples were reported to have Aroclor 1254 and were quantitated as Aroclor 1254. However, eight of these samples are believed to be misidentified. As shown in **Table 5-3**, six samples are believed to actually contain Aroclor 1260 and three samples are believed to contain another PCB mix, possibly a weathered Aroclor 1254. The identifications and quantitations are therefore inaccurate for these nine samples.

5.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid. Completeness of the pesticide/PCB data is greater than 90 percent and is acceptable.

5.5 COMPARABILITY

The sampling procedures for pesticide/PCB samples were documented to be consistent with the requirements in the QAPP (WCFS, 1994). Pesticide/PCB samples were analyzed by Method 8080 (sediment) and Method 608 (water) as required. All reporting units for pesticide/PCB analyses were consistent. Therefore, comparability of the pesticide/PCB data is acceptable.

5.6 SENSITIVITY

Dilutions of sediment samples were necessary for pesticide/PCB analyses **(Table 5-1)**. Laboratory quantitation limits achieved in pesticide/PCB analyses met the project requirements. Sensitivity for pesticide/PCB analyses was acceptable.

6.0
METALS

6.1 PRECISION

Based on the findings in 6.1.1 and 6.1.2, the overall precision for metals analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

6.1.1 Matrix Spikes/Matrix Spike Duplicates

Samples used for MS/MSD are listed in **Table 2-1**. Values for RPD were calculated for each analyte spiked in the MS/MSD samples (**Table 6-1**). The sediment MS/MSD RPDs were outside of criteria for arsenic, magnesium, and selenium. The tissue MS/MSD RPD was outside of criteria for calcium. The samples with reported quantities of these elements were qualified as estimated (J). Selenium was not detected in any sediment samples, so no qualification was necessary for selenium based on the MS/MSD RPD. The qualifications are shown in **Table 6-2**.

6.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each sample preparation method. RPD values were calculated for analytes spiked into the laboratory DCS. The RPDs were within the element specific criteria.

6.2 ACCURACY

Based on the findings in 6.2.1, 6.2.2 and 6.2.3, the overall accuracy for metals analyses is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

6.2.1 Matrix Spike Percent Recovery

Two MS/MSDs were analyzed for SDG 42721. One MS/MSD was analyzed for SDG 42823. The MS/MSD results that are outside of criteria are summarized in **Table 6-1**. The %R for aluminum and iron in the surface water and tissue MS/MSDs, as well as the calcium and copper %Rs in tissue, were higher than the upper acceptance criteria. The detected quantities of these metals in the associated samples are qualified as estimated (J). Antimony, arsenic, selenium, and thallium had low %Rs for the sediment MS/MSDs. The detected quantities of these metals in the sediments were qualified as estimated (J) and the non-detected quantities were qualified as not detected with the quantitation limit estimated (UJ). Copper, selenium, and thallium had low %Rs for the surface water MS/MSDs. The detected quantities were qualified as estimated (J) and the non-detects as not detected with the quantitation limit estimated (UJ). The list of qualifications are shown in **Table 6-2**.

6.2.2 Duplicate Control Sample Percent

The DCS %Rs were within the acceptance limits of 80-120 percent for all samples.

6.2.3 Calibrations

6.2.3.1 Initial Calibrations

The initial calibrations for metal analyses were acceptable. However, the laboratory did not provide initial calibration verification %Rs for ICP analyses. This caused the reviewer to manually calculate all %Rs rather than to spot check calculations. No action was required.

6.2.3.2 Continuing Calibrations

The continuing calibrations for metal analyses were acceptable. No action was required.

6.2.4 Graphite Furnace Atomic Absorption Post-Digestion Spike Percent Recovery

The post-digestion spike %R was out of control limits for selenium in sample SC-EE02-SD-201. The sample was re-analyzed after dilution and the post-digestion result was within limits. A summary of the dilutions required are in **Table 6-3**.However, the laboratory again did not provide continuing calibration verification %Rs for ICP analyses.

6.3 REPRESENTATIVENESS

6.3.1 Holding Times

All holding times were met for metals analyses of all samples.

6.3.2 Blanks

Results of each category of blanks for metals analysis is discussed below.

6.3.2.1 Method Blanks

The method blanks were free of metals contamination in the sediment and water samples. The tissue method blank had 0.34 mg/kg lead. Since this was below the contract required detection limit of 0.5 mg/kg, then no action was required.

6.3.2.2 Field Blanks (Rinsates and Ambient)

Four rinsate blanks and one ambient blank were collected in this investigation. Calcium was detected in the rinsate blank associated with SDG 42721. Copper, silver, and zinc were detected in the rinsate blank below the reporting limits. Calcium, copper, and zinc were also detected in the associated investigative soil samples. However, metal concentrations in the rinsate blank were orders of magnitude lower than concentrations in investigative soil samples. Therefore, cross-contamination is not a significant issue in metal soil sample analysis. No action was required.

6.3.3 Field Duplicates

Results of metals field duplicate analyses are presented in **Table 6-4**. Only those compounds with at least one detection are included. The precision shown for the duplicate samples is the result of the variability in analytical technique, variability in sample collection, and analytical results close to the detection limit for several analytes. At mg/kg or mg/L concentration, these factors are important and should be considered as contributors to the variance in field duplicate results. No actions are taken on the basis of field duplicate results. The results of the tissue replicate samples are shown in **Table 6-5**. They appear to be reasonable with the exception of samples SC-EW02-BT-201, -202, and -203 for manganese.

6.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid. Completeness of the metals data is greater than 90 percent and is acceptable.

6.5 COMPARABILITY

Comparability of the metals data is acceptable. The sampling procedures for metal samples were documented to be consistent with the required methods. Metals (except mercury, arsenic, cadmium, copper, lead, selenium, silver, and thallium) samples were analyzed by Method 6010 as required. In aqueous samples cadmium, copper, lead, and silver were analyzed using ICP-MS (Method 6020). Mercury samples were analyzed by Method 7470. Sediment analyses were done according to the following methods: arsenic by Method 7060, selenium by Method 7740, and thallium by Method 7841. Arsenic, selenium, and thallium concentrations in the tissue samples were determined using trace ICP. This was due to the limited quantity of sample. The results should be comparable with the graphite furnace results. All reporting units for metals analysis were consistent.

6.6 SENSITIVITY

Two of the investigative samples; SC-EE01-SD-201 and SC-EE02-SD-201 were analyzed for calcium after dilution as a result of high concentrations in the sample (**Table 6-2**). Reporting limits for selenium were raised in four samples as a result of matrix interference. Reporting limits for thallium were raised in fifteen samples as a result of matrix interference. A summary of the samples with elevated detection limits due to matrix interference is presented in **Table 6-6**. Quantitation limits for metals analyses for all investigative samples and rinsate blanks met the project requirements. Sensitivity for metals analyses was acceptable.

7.1 PRECISION

Based on the findings in 7.1.1 and 7.1.2, the overall precision for cyanide analyses and total organic carbon (TOC) in sediment analyses and cyanide analyses in tissue samples is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

7.1.1 Matrix Spikes/Matrix Spike Duplicates

Samples used for MS/MSD are listed in **Table 2-1**. Values for RPD were calculated for each analyte spiked in the MS/MSD samples. The results were acceptable for both the cyanide and the TOC analyses.

7.1.2 Duplicate Control Samples

The laboratory analyzed DCS sets with each analytical batch of samples for each sample preparation method. RPD values were calculated for analytes spiked into the laboratory DCS. The RPDs were within the chemical specific criteria.

7.2 ACCURACY

Based on the findings in 7.2.1, 7.2.2 and 7.2.3, the overall accuracy for cyanide analyses and TOC in sediment samples and cyanide analyses in tissue samples is judged acceptable. The acceptance criteria are identified in Chapter 1.0.

7.2.1 Matrix Spike Percent Recovery

Three MS/MSDs were analyzed for cyanide, but only the sediment MS/MSD was analyzed for TOC. The recovery for TOC in the sediment MSD was 124%. All other recoveries met acceptance criteria. No action was required.

7.2.2 Duplicate Control Sample Percent Recovery

The DCS %Rs were within the acceptance limits of 80-120 percent for all samples.

7.2.3 Calibrations

7.2.3.1 Initial Calibrations

The initial calibrations for both cyanide and TOC analyses were acceptable.

7.2.3.2 Continuing Calibrations

The continuing calibrations for both cyanide and TOC analyses were acceptable.

7.3 REPRESENTATIVENESS

7.3.1 Holding Times

All holding times were met for all sediment and water samples. The holding times were exceeded for seven tissue samples. The sample IDs and the holding times are summarized in **Table 7-1**. Although cyanide is fairly unstable, the samples were stored at 4 degrees C which should help to retain the cyanide if it is present. The samples were qualified as not detected with the detection limit estimated (UJ).

7.3.2 Blanks

The results for cyanide and TOC analysis of each blank is discussed below.

7.3.2.1 Method Blanks

Method blanks were free of contamination.

7.3.2.2 Field Blanks (Rinsates and Ambient)

Four rinsate blanks and one ambient blank were collected in this investigation. No cyanide was detected in the rinsate or ambient blank associated with SDG 42721. TOC analyses were not required.

7.3.3 Field Duplicates

Results of TOC field duplicate analyses are presented in **Table 7-2**. There wasn't any cyanide found in the samples, so the cyanide results are not included in the table. The precision shown for the duplicate samples is the result of the variability in analytical technique and variability in sample collection.

7.4 COMPLETENESS

Completeness is expressed as the percentage of all measurements whose results are judged to be valid. Completeness of the metals data is greater than 90 percent and is acceptable.

7.5 COMPARABILITY

Comparability of the general inorganics data is acceptable. The sampling procedures for the samples were documented to be consistent with the required methods. Cyanide samples were

analyzed by Method 9012 as required. TOC was analyzed on the sediment samples only by Method 415.1 as required. All reporting units for the inorganic analyses were consistent.

7.6 SENSITIVITY

No dilutions were required for the cyanide or TOC analyses. Quantitation limits for the inorganic analyses for all investigative samples and rinsate blanks met the project requirements. Sensitivity for cyanide and TOC analyses was acceptable.

8.0
CONCLUSIONS

The data generated during the second Ecological Monitoring at Soldier Creek, Tinker Air Force Base were reviewed. The data were evaluated to be usable as received from QES for their stated and intended purpose. Those data qualified as a result of this data review were identified. Results qualified as estimated (J) or (UJ) should be used with caution. The results of the VOC analyses of the tissue samples should be viewed with caution regarding the suspected contamination of the samples during homogenization. The tissue sample results for the pesticide/PCBs should also be clarified regarding the identification of the PCB mixtures in the tissues.

9.0
REFERENCES

U.S. Environmental Protection Agency (USEPA). 1992. Test Methods for Evaluating Solid Waste. SW-846, 7-92, Rev 1.

U.S. Environmental Protection Agency (USEPA). 1994a. USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review. February 1994 Revision.

U.S. Environmental Protection Agency (USEPA). 1994b. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. February 1994 Revision.

Woodward-Clyde Federal Services (WCFS). 1994. Quality Assurance Project Plan, Quarterly Monitoring and Ecological Assessment, Tinker Air Force Base, Oklahoma City, Oklahoma. Prepared for Department of Air Force, Tinker AFB, Oklahoma City, Oklahoma. August.

TABLES

TABLE 2-1

FIELD SAMPLES USED FOR MS/MSDs AND FIELD DUPLICATE SAMPLES

Field Samples	Field Duplicate Samples	Matrix	Associated SDGs
SC-EE08-SW-201	SC-EE08-SW-701	Surface Water	42657
SC-EE08-SD-201	SC-EE08-SD-701	Sediment	42657
CR-EC02-SW-201	CR-EC02-SW-701	Surface Water	42721
CR-EC02-SD-201	CR-EC02-SD-701	Sediment	42721
CR-EC01-BT-201	Not Applicable	Tissue	42823

TABLE 3-1

SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE INITIAL AND CONTINUING CALIBRATIONS (VOLATILE COMPOUNDS)

System	Date	Compound	Criteria	Q	RRF	RSD	%D	Samples Affected
H	6/16/95	Acetonitrile	CC	R	<0.05	MC	>25%	SC-EE01-SD-201
		Cyclohexanone	CC	R	<0.05	MC	>25%	SC-EE02-SD-201
		1,4-Dioxane	IC, CC	R	<0.05	MC	>25%	SC-EE03-SD-201
		Ethanol	IC, CC	R	<0.05	MC	MC	SC-EE04-SD-201
		Isobutanol	CC	R	<0.05	MC	>25%	CR-EC02-SD-201
		Acetone	CC	UJ	MC	MC	>25%	CR-EC02-SD-701*
		Acrolein	CC	UJ	MC	MC	>25%	CR-EC02-SD-201 MS*
		Acrylonitrile	CC	UJ	MC	MC	>25%	CR-EC02-SD-201 MSD*
		Bromoform	CC	UJ	MC	MC	>25%	
		2-Butanone	CC	UJ,J*	MC	MC	>25%	
		2-Chloroethyl vinyl ether	CC	UJ	MC	MC	>25%	
		1,2-Dibromo-3-chloropropane	CC	UJ	MC	MC	>25%	
		t-1,4-Dichlorobutene	CC	UJ	MC	MC	>25%	
		Ethyl acetate	CC	UJ	MC	MC	>25%	
		Ethyl methacrylate	CC	UJ	MC	MC	>25%	
		2-Hexanone	CC	UJ	MC	MC	>25%	
		Methacrylonitrile	CC	UJ	MC	MC	>25%	
		Methyl methacrylate	CC	UJ	MC	MC	>25%	
		4-Methyl-2-pentanone	CC	UJ	MC	MC	>25%	
		2-Nitropropane	CC	UJ	MC	MC	>25%	
		Propionitrile	CC	UJ	MC	MC	>25%	
		1,1,2,2-Tetrachloroethane	CC	UJ	MC	MC	>25%	
		Tetrahydrofuran	CC	UJ	MC	MC	>25%	
		Trichlorofluoromethane	CC	UJ	MC	MC	>25%	
		1,2,3-Trichloropropane	CC	UJ	MC	MC	>25%	
		Vinyl acetate	CC	UJ	MC	MC	>25%	
W	6/22/95	Acetonitrile	IC, CC	R	<0.05	MC	MC	SC-EE01-SW-201*
		2-Butanone	CC	R	<0.05	MC	>25%	SC-EE02-SW-201*
		Cyclohexanone	IC, CC	R	<0.05	MC	NA	SC-EE03-SW-201*
		1,4-Dioxane	IC, CC	R	<0.05	MC	MC	SC-EE04-SW-201
		Ethanol	IC, CC	R	NA	SP	NA	CR-EC02-SW-201
		Isobutanol	IC, CC	R	<0.05	MC	MC	CR-EC02-SW-701
		2-Nitropropane	IC, CC	R	NA	NA	NA	CR-EC02-SW-201 MS
		Propionitrile	IC, CC	R	<0.05	>30%	>25%	CR-EC02-SW-201 MSD
		Acetone	CC	UJ,J*	MC	MC	>25%	SC-TRIP-SW-202
		Bromomethane	CC	UJ	MC	MC	>25%	SC-EE02-SW-201 RIN
		Carbon disulfide	CC	UJ	MC	MC	>25%	SC-0000-SW-001 AMB
		Carbon tetrachloride	CC	UJ	MC	MC	>25%	
		Chloroethane	CC	UJ	MC	MC	>25%	
		2-Hexanone	IC, CC	UJ	MC	>30%	>25%	
		4-Methyl-2-pentanone	CC	UJ	MC	MC	>25%	
		1,2,3-Trichloropropane	CC	UJ	MC	MC	>25%	
		Vinyl acetate	CC	UJ	MC	MC	>25%	

TABLE 3-1

SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE INITIAL AND CONTINUING CALIBRATIONS (VOLATILE COMPOUNDS)

System	Date	Compound	Criteria	Q	RRF	RSD	%D	Samples Affected
H	6/26/95	1,4-Dioxane	IC,CC	R	<0.05	MC	MC	CR-EC01-BT-201
		Ethanol	IC,CC	R	<0.05	MC	>25%	CR-EC01-BT-201 MS
		Acetonitrile	CC	UJ	MC	MC	>25%	CR-EC01-BT-201 MSD
		Acrylonitrile	CC	UJ	MC	MC	>25%	CR-EC01-BT-202
		Chloromethane	CC	UJ	MC	MC	>25%	CR-EC01-BT-203
		Chloroprene	CC	UJ	MC	MC	>25%	SC-EW01-BT-201
		Ethyl ether	CC	UJ	MC	MC	>25%	SC-EW01-BT-202
		Hexane	CC	UJ	MC	MC	>25%	SC-EW01-BT-203
		Tetrahydrofuran	CC	UJ	MC	MC	>25%	
H	7/6/95	Acetonitrile	CC	R	<0.05	MC	>25%	CR-EC02-BT-201
		Cyclohexanone	CC	R	<0.05	MC	>25%	CR-EC02-BT-202
		1,4-Dioxane	IC,CC	R	<0.05	MC	>25%	SC-EW02-BT-203
		Ethanol	IC,CC	R	<0.05	MC	MC	
		Isobutanol	CC	R	<0.05	MC	>25%	
		Acetone	CC	J	MC	MC	>25%	
		Acrolein	CC	UJ	MC	MC	>25%	
		Acrylonitrile	CC	UJ	MC	MC	>25%	
		Bromomethane	CC	UJ	MC	MC	>25%	
		2-Butanone	CC	J	MC	MC	>25%	
		Chloroethane	CC	UJ	MC	MC	>25%	
		2-Chloroethylvinylether	CC	UJ	MC	MC	>25%	
		Chloromethane	CC	UJ	MC	MC	>25%	
		Chloroprene	CC	UJ	MC	MC	>25%	
		1,2-Dibromo-3-chloropropane	CC	UJ	MC	MC	>25%	
		t-1,4-Dichloro-2-butene	CC	UJ	MC	MC	>25%	
		Dichlorodifluoromethane	CC	UJ	MC	MC	>25%	
		Ethyl acetate	CC	UJ	MC	MC	>25%	
		2-Hexanone	CC	UJ	MC	MC	>25%	
		Methacrylonitrile	CC	UJ	MC	MC	>25%	
		Methyl methacrylate	CC	UJ	MC	MC	>25%	
		4-Methyl-2-pentanone	CC	UJ	MC	MC	>25%	
		2-Nitropropane	CC	UJ	MC	MC	>25%	
		Propionitrile	CC	UJ	MC	MC	>25%	
		1,1,2,2-Tetrachloroethane	CC	UJ	MC	MC	>25%	
		Tetrahydrofuran	CC	UJ	MC	MC	>25%	
		Trichlorofluoromethane	CC	UJ	MC	MC	>25%	
		Trichlorotrifluoroethane	CC	UJ	MC	MC	>25%	
		1,2,3-Trichloropropane	CC	UJ	MC	MC	>25%	

Notes: Date = Date of Continuing Calibration
Q = Qualifier
RRF = Relative Response Factor
RSD = Relative Standard Deviation of IC
%D = Percent Difference of CC from IC
IC = Initial Calibration
CC = Continuing Calibration
MC = Meets Criteria
* = Sample qualified estimated (J)
NA = Not Analyzed
SP = Single Point Calibration

TABLE 3-2

VOLATILES COMPOUNDS FOUND IN METHOD BLANKS AND ASSOCIATED SAMPLES

METHOD BLANK	COMPOUND	CONCENTRATION (µg/kg)	ASSOCIATED SAMPLES	SDG
16 Jun 95 - H	Acetone	2.4	SC-EE01-SD-201 SC-EE02-SD-201 CR-EC02-SD-201 CR-EC02-SD-701 SC-EE03-SD-201 SC-EE04-SD-201	42721
16 Jun95 - H	2-Butanone	3.5	SC-EE01-SD-201 SC-EE02-SD-201 CR-EC02-SD-201 CR-EC02-SD-701 SC-EE03-SD-201 SC-EE04-SD-201	42721
22 Jun95 - W	Methylene Chloride	1.1	SC-EE01-SW-201 SC-EE02-SW-201 CR-EC02-SW-201 CR-EC02-SW-701 SC-EE03-SW-201 SC-EE04-SW-201 SC-EE02-SW-201 RIN SC-TRIP-SW-202 SC-0000-SW-001 AMB	42721 42750

TABLES 3-3

ANALYTES QUALIFIED NOT DETECTED (U) AS A RESULT OF METHOD BLANK CONTAMINATION FROM SDG 42721

METHOD BLANK	COMPOUND	QUALIFIER	SAMPLE NUMBER	DETECTION LIMIT (ug/kg or ug/L)
16 Jun 95 - H	Acetone	U	CR-EC02-SD-201	25
			CR-EC02-SD-701	70
			SC-EE03-SD-201	12
			SC-EE04-SD-201	30
16 Jun95 - H	2-Butanone	U	CR-EC02-SD-701	20
22 Jun95 - W	Methylene Chloride	U	SC-EE01-SW-201	5
			SC-EE02-SW-201	5
			CR-EC02-SW-201	5
			CR-EC02-SW-701	5
			SC-EE03-SW-201	7.5
			SC-EE04-SW-201	7.5
			SC-TRIP-SW-202	7.5

TABLE 3-4

VOLATILE COMPOUNDS FOUND IN THE FIELD BLANKS AND QUALIFIERS

Sample ID	Compound	Concentration (µg/L)	Q	Detection Limit
SC-0000-SW-001-AMB	Methylene Chloride	22		
	Chloroform	40		
	Bromodichloromethane	5.5		
SC-EE02-SW-201-RIN	Methylene Chloride	27	U	30
	Chloroform	39	U	40
	Bromodichloromethane	5.4	U	5.5

Q = Qualifier

TABLE 3-5

RESULTS OF REPLICATE TISSUE SAMPLES FOR VOC ANALYSIS

Sample ID	Result	Sample ID	Result	Sample ID	Result	Mean Result	RSD
VOCs : TETRACHLOROETHENE (ug/kg)							
SC-EW01-BT-201	19	SC-EW01-BT-202	9.2	SC-EW01-BT-203	17	15	34%

Notes : ND = compound not detected

Compounds not detected in more than one replicate sample are not shown

Mean is calculated as : Sum of the Replicates / Number of Replicates

RSD is calculated as : 100% * (Std. Dev.) / Mean.

TABLE 4-1

SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE CONTINUING CALIBRATIONS FOR SVOC ANALYSIS

System	Date	Compound	Criteria	Q	RRF	RSD	RPD	Samples Affected
E	6/26/95	Bis(2-ethylhexyl)phthalate	CC	J	MC	MC	>25%	SC-EE01-SD-201
		Aramite #1, #2, & Total	CC	UJ	MC	MC	>25%	CR-EC02-SD-201
		Diallate #1, #2, & Total	CC	UJ	MC	MC	>25%	CR-EC02-SD-701
		3,3'-Dichlorobenzidine	CC	UJ	MC	MC	>25%	CR-EC02-SD-201 MS
		Dimethoate	CC	UJ	MC	MC	>25%	CR-EC02-SD-201 MSD
		2,4-Dinitrophenol	CC	UJ	MC	MC	>25%	
		Disulfoton	CC	UJ	MC	MC	>25%	
		Methapyrilene	CC	UJ	MC	MC	>25%	
		Methylparathion	CC	UJ	MC	MC	>25%	
		4-Nitrophenol	CC	UJ	MC	MC	>25%	
		4-Nitroquinoline-1-oxide	CC	UJ	MC	MC	>25%	
		N-nitrosodi-n-butylamine	CC	UJ	MC	MC	>25%	
		N-nitrosomethylethylamine	CC	UJ	MC	MC	>25%	
		N-nitrosopiperidine	CC	UJ	MC	MC	>25%	
		Parathion	CC	UJ	MC	MC	>25%	
		Pentochloronitrobenzene	CC	UJ	MC	MC	>25%	
		2-Secbutyl-4,6-dinitrophenol	CC	UJ	MC	MC	>25%	
		Sulfotep	CC	UJ	MC	MC	>25%	
E	6/27/95	Bis(2-ethylhexyl)phthalate	CC	J	MC	MC	>25%	SC-EE02-SD-201
		Aramite #2	CC	UJ	MC	MC	>25%	SC-EE03-SD-201
		Butylbenzylphthalate	CC	UJ	MC	MC	>25%	SC-EE04-SD-201
		Diallate #1, #2, & Total	CC	UJ	MC	MC	>25%	
		3,3'-Dichlorobenzidine	CC	UJ	MC	MC	>25%	
		3,3'-Dimethylbenzidine	CC	UJ	MC	MC	>25%	
		Disulfoton	CC	UJ	MC	MC	>25%	
		Methapyriline	CC	UJ	MC	MC	>25%	
		Methylparathion	CC	UJ	MC	MC	>25%	
		4-Nitrophenol	CC	UJ	MC	MC	>25%	
		4-Nitroquinoline-1-oxide	CC	UJ	MC	MC	>25%	
		N-nitrosodi-n-butylamine	CC	UJ	MC	MC	>25%	
		N-nitrosomethylethylamine	CC	UJ	MC	MC	>25%	
		N-nitrosopiperidine	CC	UJ	MC	MC	>25%	
		Parathion	CC	UJ	MC	MC	>25%	
		Pentachloronitrobenzene	CC	UJ	MC	MC	>25%	
		2-Secbutyl-4,6-dinitrophenol	CC	UJ	MC	MC	>25%	
		Sulfotep	CC	UJ	MC	MC	>25%	

Notes: Date = Date of Continuing Calibration
Q = Qualifier
RRF = Relative Response Factor
RSD = Relative Standard Deviation of IC
% D = Percent Difference of CC from IC
IC = Initial Calibration
CC = Continuing Calibration

TABLE 4-1

SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE CONTINUING CALIBRATIONS FOR SVOC ANALYSIS

System	Date	Compound	Criteria	Q	RRF	RSD	RPD	Samples Affected
A	6/20/95	Benzidine	CC	UJ	MC	MC	>25%	SC-EE01-SW-201
		p-Dimethylaminoazobenzene	CC	UJ	MC	MC	>25%	SC-EE02-SW-201
		Hexachloropropene	CC	UJ	MC	MC	>25%	SC-EE03-SW-201
		Methylmethanesulfonate	CC	UJ	MC	MC	>25%	SC-EE04-SW-201
		N-nitrosomethylethylamine	CC	UJ	MC	MC	>25%	CR-EC02-SW-201
		N-nitrosomorpholine	CC	UJ	MC	MC	>25%	CR-EC02-SW-701
		N-nitrosopiperidine	CC	UJ	MC	MC	>25%	CR-EC02-SW-201 MS
		N-nitrosopyrrolidine	CC	UJ	MC	MC	>25%	CR-EC02-SW-201 MSD
								SC-EE02-SW-201 RIN
E	7/11/95	Bis(2-ethylhexyl)phthalate	CC	UJ	MC	MC	>25%	CR-EC01-BT-201
		4-Chloro-3-methylphenol	CC	UJ	MC	MC	>25%	CR-EC01-BT-201 MS
		Diallate #1, #2, & Total	CC	UJ	MC	MC	>25%	CR-EC01-BT-201 MSD
		Dibenz(a,j)acridine	CC	UJ	MC	MC	>25%	CR-EC01-BT-202
		3,3'-Dichlorobenzidine	CC	UJ	MC	MC	>25%	CR-EC01-BT-203
		Dimethoate	CC	UJ	MC	MC	>25%	CR-EC02-BT-201
		7,12-Dimethylbenz(a)anthracene	CC	UJ	MC	MC	>25%	CR-EC02-BT-202
		AA-Dimethylphenylethylamine	CC	UJ	MC	MC	>25%	CR-EC02-BT-203
		Disulfoton	CC	UJ	MC	MC	>25%	SC-EW01-BT-201
		Hexachloropropene	CC	UJ	MC	MC	>25%	SC-EW01-BT-202
		Methapyrilene	CC	UJ	MC	MC	>25%	
		Methylmethanesulfonate	CC	UJ	MC	MC	>25%	
		Methyl parathion	CC	UJ	MC	MC	>25%	
		4-Nitrophenol	CC	UJ	MC	MC	>25%	
		4-Nitroquinoline-1-oxide	CC	UJ	MC	MC	>25%	
		N-nitroso-di-n-butylamine	CC	UJ	MC	MC	>25%	
		N-nitrosodimethylamine	CC	UJ	MC	MC	>25%	
		N-nitrosomethylethylamine	CC	UJ	MC	MC	>25%	
		N-nitrosomorpholine	CC	UJ	MC	MC	>25%	
		N-nitrosopiperidine	CC	UJ	MC	MC	>25%	
		Parathion	CC	UJ	MC	MC	>25%	
		Pentachloronitrobenzene	CC	UJ	MC	MC	>25%	
		2-Secbutyl-4,6-dinitrophenol	CC	UJ	MC	MC	>25%	
		Sulfotep	CC	UJ	MC	MC	>25%	
		Thionazin	CC	UJ	MC	MC	>25%	

Notes: Date = Date of Continuing Calibration
Q = Qualifier
RRF = Relative Response Factor
RSD = Relative Standard Deviation of IC
% D = Percent Difference of CC from IC
IC = Initial Calibration
CC = Continuing Calibration

TABLE 4-1

SAMPLES QUALIFIED AS A RESULT OF UNACCEPTABLE CONTINUING CALIBRATIONS FOR SVOC ANALYSIS

System	Date	Compound	Criteria	Q	RRF	RSD	RPD	Samples Affected
E	7/12/95	Aramite #1, #2, & Total	CC	UJ	MC	MC	>25%	SC-EW02-BT-201
		Benzo(a)anthracene	CC	UJ	MC	MC	>25%	SC-EW02-BT-203
		Benzoic acid	CC	UJ	MC	MC	>25%	SC-EE05-BT-202
		Bis(2-ethylhexyl)phthalate	CC	UJ	MC	MC	>25%	SC-EE05-BT-203
		4-Chloro-3-methyl phenol	CC	UJ	MC	MC	>25%	
		Diallate #1, #2, & Total	CC	UJ	MC	MC	>25%	
		Dibenz(a,j)acridine	CC	UJ	MC	MC	>25%	
		3,3'-Dichlorobenzidine	CC	UJ	MC	MC	>25%	
		Dimethoate	CC	UJ	MC	MC	>25%	
		p-Dimethylaminoazobenzene	CC	UJ	MC	MC	>25%	
		7,12-Dimethylbenz(a)anthracene	CC	UJ	MC	MC	>25%	
		AA-Dimethylphenylethylamine	CC	UJ	MC	MC	>25%	
		Disulfoton	CC	UJ	MC	MC	>25%	
		Ethylmethanesulfonate	CC	UJ	MC	MC	>25%	
		Fluorene	CC	UJ	MC	MC	>25%	
		Hexachloropropene	CC	UJ	MC	MC	>25%	
		Isophorone	CC	UJ	MC	MC	>25%	
		Methapyrilene	CC	UJ	MC	MC	>25%	
		Methylmethanesulfonate	CC	UJ	MC	MC	>25%	
		Methyl parathion	CC	UJ	MC	MC	>25%	
		2-Nitroaniline	CC	UJ	MC	MC	>25%	
		Nitrobenzene	CC	UJ	MC	MC	>25%	
		4-Nitrophenol	CC	UJ	MC	MC	>25%	
		4-Nitroquinoline-1-oxide	CC	UJ	MC	MC	>25%	
		N-nitrosodi-n-butylamine	CC	UJ	MC	MC	>25%	
		N-nitrosodimethylamine	CC	UJ	MC	MC	>25%	
		N-nitrosomethylethylamine	CC	UJ	MC	MC	>25%	
		N-nitrosomorpholine	CC	UJ	MC	MC	>25%	
		N-nitrosopiperidine	CC	UJ	MC	MC	>25%	
		Parathion	CC	UJ	MC	MC	>25%	
		2-Secbutyl-4,6-dinitrophenol	CC	UJ	MC	MC	>25%	
		Sulfotep	CC	UJ	MC	MC	>25%	
		Thionazin	CC	UJ	MC	MC	>25%	
		1,3,5-Trinitrobenzene	CC	UJ	MC	MC	>25%	

Notes: Date = Date of Continuing Calibration
Q = Qualifier
RRF = Relative Response Factor
RSD = Relative Standard Deviation of IC
% D = Percent Difference of CC from IC
IC = Initial Calibration
CC = Continuing Calibration

TABLE 4-2

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR SVOCs

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
SVOC- BIS(2-ETHYLHEXYL)PHTHALATE (µg/kg)				
CR-EC02-SD-701	2460	CR-EC02-SD-201	515	131%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as :100% * (2 * |Result1 - Result2| / (Result1 + Result2))

TABLE 4-3

SVOC SAMPLES ANALYZED WITH DILUTION

Sample ID	Dilution Factor
SC-EE01-SD-201	5
SC-EE02-SD-201	4
CR-EC01-BT-201	4
CR-EC01-BT-202	4
CR-EC01-BT-203	4
CR-EC02-BT-201	4
CR-EC02-BT-202	4
CR-EC02-BT-203	4
SC-EW01-BT-201	4
SC-EW01-BT-202	4
SC-EW01-BT-203	4
SC-EW02-BT-201	4
SC-EW02-BT-203	4
SC-EE05-BT-202	4
SC-EE05-BT-203	4
SC-EE03-SD-201	2

TABLE 5-1

PESTICIDE/PCB SAMPLES ANALYZED WITH DILUTION

Sample ID	Dilution Factor
SC-EE01-SD-201	100
SC-EE02-SD-201	100
SC-EW01-BT-201	20
SC-EW01-BT-202	20
SC-EW01-BT-203	20
SC-EW02-BT-201	20
SC-EW02-BT-202	20
SC-EW02-BT-203	20
SC-EE03-SD-201	10
SC-EE05-BT-201	10
SC-EE05-BT-202	10
SC-EE05-BT-203	10
SC-EE04-SD-201	5

TABLE 5-2

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR PESTICIDES/PCBs

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
PESTICIDE/PCBs : ALPHA-CHLORDANE (µg/kg)				
CR-EC02-SD-701	1.2	CR-EC02-SD-201	1.5	22%
PESTICIDE/PCBs : GAMMA-CHLORDANE (µg/kg)				
CR-EC02-SD-701	1.7	CR-EC02-SD-201	2.1	21%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

TABLE 5-3

RESULTS OF REPLICATE TISSUE SAMPLES FOR PESTICIDES/PCBs

Sample ID	Result	Sample ID	Result	Sample ID	Result	Mean Result	RSD
PESTICIDE/PCB - AROCLOR 1254 (ug/kg)							
SC-EW01-BT-201	2600	SC-EW01-BT-202	2100	SC-EW01-BT-203	3100	2600	19%
SC-EW02-BT-201	1500	SC-EW02-BT-202	1800	SC-EW02-BT-203	1400	1567	13%
PESTICIDE/PCB - AROCLOR 1260 (ug/kg AR 1254)							
CR-EC01-BT-201	45	CR-EC01-BT-202	23	CR-EC01-BT-203	39	35.7	32%
CR-EC02-BT-201	88	CR-EC02-BT-202	31	CR-EC02-BT-203	ND	59.5	68%
PESTICIDE/PCB - WEATHERED AROCLOR 1254 (ug/kg)							
SC-EE05-BT-201	470	SC-EE05-BT-202	500	SC-EE05-BT-203	800	590	31%

Notes : ND = compound not detected

Compounds not detected in more than one replicate sample are not shown

Mean is calculated as : Sum of the Replicates / Number of Replicates

RSD is calculated as : 100% * (Std. Dev.) / Mean.

TABLE 6-1

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS OUT OF CONTROL FOR METAL ANALYSIS

Matrix Spike Sample ID	Matrix Spike %Recovery	Matrix Spike Duplicate Sample ID	Matrix Spike Duplicate %Recovery	RPD
METAL: ALUMINUM				
CR-EC02-SW-201	154%	CR-EC02-SW-201	162%	4.6%
CR-EC01-BT-201	155%	CR-EC01-BT-201	164%	6.0%
METAL: ANTIMONY				
CR-EC02-SD-201	75%	CR-EC02-SD-201	71%	5.5%
METAL: ARSENIC				
CR-EC02-SD-201	79%	CR-EC02-SD-201	47%	51%
METAL: CALCIUM				
CR-EC01-BT-201	168%	CR-EC01-BT-201	93%	58%
METAL: COPPER				
CR-EC02-SW-201	72%	CR-EC02-SW-201	78%	7.6%
CR-EC01-BT-201	120%	CR-EC01-BT-201	132%	9.5%
METAL: IRON				
CR-EC02-SW-201	156%	CR-EC02-SW-201	158%	1.7%
CR-EC01-BT-201	131%	CR-EC01-BT-201	146%	11%
METAL: MAGNESIUM				
CR-EC02-SD-201	138%	CR-EC02-SD-201	399%	97%
METAL: SELENIUM				
CR-EC02-SW-201	75%	CR-EC02-SW-201	74%	1.8%
CR-EC02-SD-201	34%	CR-EC02-SD-201	45%	29%
METAL: THALLIUM				
CR-EC02-SW-201	53%	CR-EC02-SW-201	53%	1.3%
CR-EC02-SD-201	48%	CR-EC02-SD-201	52%	8.0%

Note: RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

TABLE 6-2

QUALIFICATIONS DUE TO QUALITY CONTROL MEASUREMENTS OUT OF CONTROL FOR METALS ANALYSIS

Metal	Qualifier	Reason For Qualification	Samples Qualified		
Aluminum	J	MS/MSD %Recovery	SC-EE01-SW-201	CR-EC02-SW-201	CR-EC02-SW-701
			CR-EC01-BT-201	CR-EC01-BT-202	CR-EC01-BT-203
			CR-EC02-BT-201	CR-EC02-BT-202	CR-EC02-BT-203
			SC-EW01-BT-201	SC-EW01-BT-202	SC-EW01-BT-203
			SC-EW02-BT-201	SC-EW02-BT-202	SC-EW02-BT-203
			SC-EE05-BT-201	SC-EE05-BT-202	SC-EE05-BT-203
Antimony	UJ	MS/MSD %Recovery	SC-EE01-SD-201	SC-EE02-SD-201	CR-EC02-SD-201
			CR-EC02-SD-701	SC-EE03-SD-201	SC-EE04-SD-201
Arsenic	J	MS/MSD %Recovery and	SC-EE01-SD-201	SC-EE02-SD-201	CR-EC02-SD-201
		MS/MSD RPD	CR-EC02-SD-701	SC-EE03-SD-201	SC-EE04-SD-201
Calcium	J	MS/MSD %Recovery and	CR-EC01-BT-201	CR-EC01-BT-202	CR-EC01-BT-203
		MS/MSD RPD	CR-EC02-BT-201	CR-EC02-BT-202	CR-EC02-BT-203
			SC-EW01-BT-201	SC-EW01-BT-202	SC-EW01-BT-203
			SC-EW02-BT-201	SC-EW02-BT-202	SC-EW02-BT-203
			SC-EE05-BT-201	SC-EE05-BT-202	SC-EE05-BT-203
Copper	J	MS/MSD %Recovery	SC-EE01-SW-201	SC-EE02-SW-201	CR-EC02-SW-201
			CR-EC02-SW-701	SC-EE03-SW-201	SC-EE04-SW-201
			SC-EE02-SW-210 RIN		
			CR-EC01-BT-201	CR-EC01-BT-202	CR-EC01-BT-203
			CR-EC02-BT-201	CR-EC02-BT-202	CR-EC02-BT-203
			SC-EW01-BT-201	SC-EW01-BT-202	SC-EW01-BT-203
			SC-EW02-BT-201	SC-EW02-BT-202	SC-EW02-BT-203
			SC-EE05-BT-201	SC-EE05-BT-202	SC-EE05-BT-203
Iron	J	MS/MSD %Recovery	SC-EE01-SW-201	SC-EE02-SW-201	CR-EC02-SW-201
			CR-EC02-SW-701	SC-EE03-SW-201	SC-EE04-SW-201
			CR-EC01-BT-201	CR-EC01-BT-202	CR-EC01-BT-203
			CR-EC02-BT-201	CR-EC02-BT-202	CR-EC02-BT-203
			SC-EW01-BT-201	SC-EW01-BT-202	SC-EW01-BT-203
			SC-EW02-BT-201	SC-EW02-BT-202	SC-EW02-BT-203
			SC-EE05-BT-201	SC-EE05-BT-202	SC-EE05-BT-203
Magnesium	J	MS/MSD %Recovery and	SC-EE01-SD-201	SC-EE02-SD-201	CR-EC02-SD-201
		MS/MSD RPD	CR-EC02-SD-701	SC-EE03-SD-201	SC-EE04-SD-201
Selenium and Thallium	UJ	MS/MSD %Recovery	SC-EE01-SW-201	SC-EE02-SW-201	CR-EC02-SW-201
			CR-EC02-SW-701	SC-EE03-SW-201	SC-EE04-SW-201
			SC-EE02-SW-201 RIN	SC-EE01-SD-201	SC-EE02-SD-201
			SC-EE03-SD-201	CR-EC02-SD-201	CR-EC02-SD-701
			SC-EE04-SD-201		

TABLE 6-3

METALS SAMPLES ANALYZED WITH DILUTION

Sample ID	Dilution Factor
SC-EE01-SD-201	Ca (2)
SC-EE02-SD-201	Ca (5) Se(2)

TABLE 6-4

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR METALS

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
METAL: ALUMINUM (mg/kg or mg/L)			**Average RPD =**	**65%**
CR-EC02-SW-701	0.52	CR-EC02-SW-201	0.25	70%
CR-EC02-SD-701	7980	CR-EC02-SD-201	4350	59%
METAL: ARSENIC (mg/kg or mg/L)			**Average RPD =**	**37%**
CR-EC02-SW-701	0.0019	CR-EC02-SW-201	0.0025	27%
CR-EC02-SD-701	8.6	CR-EC02-SD-201	5.3	47%
METAL: BARIUM (mg/kg or mg/L)			**Average RPD =**	**7%**
CR-EC02-SW-701	0.6	CR-EC02-SW-201	0.58	3.4%
CR-EC02-SD-701	1320	CR-EC02-SD-201	1460	10%
METAL: BERYLLIUM (mg/kg or mg/L)				
CR-EC02-SD-701	0.63	CR-EC02-SD-201	0.38	50%
METAL: CALCIUM (mg/kg or mg/L)			**Average RPD =**	**48%**
CR-EC02-SW-701	65.6	CR-EC02-SW-201	63.9	2.6%
CR-EC02-SD-701	22800	CR-EC02-SD-201	63500	94%
METAL: CHROMIUM (mg/kg or mg/L)				
CR-EC02-SD-701	15	CR-EC02-SD-201	8.7	53%
METAL: COBALT (mg/kg or mg/L)				
CR-EC02-SD-701	5.9	CR-EC02-SD-201	2.8	71%
METAL: COPPER (mg/kg or mg/L)			**Average RPD =**	**37%**
CR-EC02-SW-701	0.0031	CR-EC02-SW-201	0.0046	39%
CR-EC02-SD-701	10.2	CR-EC02-SD-201	7.1	36%
METAL: IRON (mg/kg or mg/L)			**Average RPD =**	**53%**
CR-EC02-SW-701	0.55	CR-EC02-SW-201	0.31	56%
CR-EC02-SD-701	11000	CR-EC02-SD-201	6610	50%
METAL: LEAD (mg/kg or mg/L)			**Average RPD =**	**51%**
CR-EC02-SW-701	0.0011	CR-EC02-SW-201	0.0011	0.0%
CR-EC02-SD-701	35	CR-EC02-SD-201	11.4	102%
METAL: MAGNESIUM (mg/kg or mg/L)			**Average RPD =**	**30%**
CR-EC02-SW-701	28.7	CR-EC02-SW-201	28	2.5%
CR-EC02-SD-701	6540	CR-EC02-SD-201	3650	57%
METAL: MANGANESE (mg/kg or mg/L)			**Average RPD =**	**29%**
CR-EC02-SW-701	0.15	CR-EC02-SW-201	0.15	0.0%
CR-EC02-SD-701	615	CR-EC02-SD-201	336	59%

TABLE 6-4

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR METALS

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
METAL: NICKEL (mg/kg or mg/L)				
CR-EC02-SD-701	14.2	CR-EC02-SD-201	7.8	58%
METAL: POTASSIUM (mg/kg or mg/L)			**Average RPD =**	**24%**
CR-EC02-SW-701	3.4	CR-EC02-SW-201	3.4	0.0%
CR-EC02-SD-701	998	CR-EC02-SD-201	616	47%
METAL: SODIUM (mg/kg or mg/L)			**Average RPD =**	**2%**
CR-EC02-SW-701	66.1	CR-EC02-SW-201	64.9	1.8%
CR-EC02-SD-701	265	CR-EC02-SD-201	273	3.0%
METAL: VANADIUM (mg/kg or mg/L)				
CR-EC02-SD-701	25.6	CR-EC02-SD-201	13.1	65%
METAL: ZINC (mg/kg or mg/L)			**Average RPD =**	**31%**
CR-EC02-SW-701	0.017	CR-EC02-SW-201	0.014	19%
CR-EC02-SD-701	34.6	CR-EC02-SD-201	22.5	42%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

TABLE 6-5

RESULTS OF REPLICATE TISSUE SAMPLES FOR METALS

Sample ID	Result	Sample ID	Result	Sample ID	Result	Mean Result	RSD
METAL: ALUMINUM (mg/kg)							
CR-EC01-BT-201	105	CR-EC01-BT-202	59.5	CR-EC01-BT-203	80.1	81.5	28%
CR-EC02-BT-201	111	CR-EC02-BT-202	73.9	CR-EC02-BT-203	75.0	86.6	24%
SC-EW01-BT-201	30.6	SC-EW01-BT-202	25.6	SC-EW01-BT-203	36.6	30.9	18%
SC-EW02-BT-201	94.9	SC-EW02-BT-202	76.6	SC-EW02-BT-203	66.5	79.3	18%
SC-EE05-BT-201	42.7	SC-EE05-BT-202	51.1	SC-EE05-BT-203	74.8	56.2	30%
METAL: BARIUM (mg/kg)							
CR-EC01-BT-201	172	CR-EC01-BT-202	148	CR-EC01-BT-203	200	173.3	15%
CR-EC02-BT-201	251	CR-EC02-BT-202	148	CR-EC02-BT-203	234	211.0	26%
SC-EW01-BT-201	19.7	SC-EW01-BT-202	50.2	SC-EW01-BT-203	29.6	33.2	47%
SC-EW02-BT-201	117	SC-EW02-BT-202	138	SC-EW02-BT-203	72.9	109.3	30%
SC-EE05-BT-201	51.0	SC-EE05-BT-202	123	SC-EE05-BT-203	174	116.0	53%
METAL: CADMIUM (mg/kg)							
SC-EW01-BT-201	2.9	SC-EW01-BT-202	3.3	SC-EW01-BT-203	1.7	2.6	32%
SC-EW02-BT-201	2.9	SC-EW02-BT-202	1.6	SC-EW02-BT-203	3.4	2.6	35%
SC-EE05-BT-201	4.8	SC-EE05-BT-202	4.4	SC-EE05-BT-203	4.6	4.6	4.3%
METAL: CALCIUM (mg/kg)							
CR-EC01-BT-201	31900	CR-EC01-BT-202	28800	CR-EC01-BT-203	36200	32300	12%
CR-EC02-BT-201	49100	CR-EC02-BT-202	36000	CR-EC02-BT-203	42800	42633	15%
SC-EW01-BT-201	7030	SC-EW01-BT-202	17600	SC-EW01-BT-203	9020	11217	50%
SC-EW02-BT-201	30100	SC-EW02-BT-202	37300	SC-EW02-BT-203	25200	30867	20%
SC-EE05-BT-201	14100	SC-EE05-BT-202	27400	SC-EE05-BT-203	42400	27967	51%
METAL: CHROMIUM (mg/kg)							
SC-EW01-BT-201	2.7	SC-EW01-BT-202	0.99	SC-EW01-BT-203	1.0	1.6	63%
SC-EW02-BT-201	2.3	SC-EW02-BT-202	0.93	SC-EW02-BT-203	0.84	1.4	60%
SC-EE05-BT-201	4.0	SC-EE05-BT-202	3.4	SC-EE05-BT-203	2.7	3.4	19%
METAL: COPPER (mg/kg)							
CR-EC01-BT-201	32.2	CR-EC01-BT-202	28.0	CR-EC01-BT-203	37.2	32.5	14%
CR-EC02-BT-201	33.8	CR-EC02-BT-202	34.8	CR-EC02-BT-203	39.5	36.0	8.4%
SC-EW01-BT-201	50.5	SC-EW01-BT-202	65.3	SC-EW01-BT-203	62.2	59.3	13%
SC-EW02-BT-201	58.2	SC-EW02-BT-202	51.1	SC-EW02-BT-203	75.6	61.6	20%
SC-EE05-BT-201	58.3	SC-EE05-BT-202	66.3	SC-EE05-BT-203	67.8	64.1	8.0%
METAL: IRON (mg/kg)							
CR-EC01-BT-201	137	CR-EC01-BT-202	84.7	CR-EC01-BT-203	114	112	23%
CR-EC02-BT-201	158	CR-EC02-BT-202	111	CR-EC02-BT-203	143	137	17%
SC-EW01-BT-201	50.5	SC-EW01-BT-202	50.0	SC-EW01-BT-203	79.4	60.0	28%
SC-EW02-BT-201	204	SC-EW02-BT-202	121	SC-EW02-BT-203	116	147	34%
SC-EE05-BT-201	99.8	SC-EE05-BT-202	199	SC-EE05-BT-203	188	162	34%

TABLE 6-5

RESULTS OF REPLICATE TISSUE SAMPLES FOR METALS

Sample ID	Result	Sample ID	Result	Sample ID	Result	Mean Result	RSD
METAL: LEAD (mg/kg)							
CR-EC01-BT-201	0.73	CR-EC01-BT-202	0.54	CR-EC01-BT-203	0.48	0.58	22%
CR-EC02-BT-201	0.86	CR-EC02-BT-202	0.80	CR-EC02-BT-203	0.64	0.77	15%
SC-EW01-BT-201	0.91	SC-EW01-BT-202	0.81	SC-EW01-BT-203	0.80	0.84	7.2%
SC-EW02-BT-201	1.6	SC-EW02-BT-202	0.85	SC-EW02-BT-203	1.1	1.2	32%
SC-EE05-BT-201	1.4	SC-EE05-BT-202	1.5	SC-EE05-BT-203	2.0	1.6	20%
METAL: MAGNESIUM (mg/kg)							
CR-EC01-BT-201	619	CR-EC01-BT-202	564	CR-EC01-BT-203	632	605	6.0%
CR-EC02-BT-201	848	CR-EC02-BT-202	582	CR-EC02-BT-203	803	744	19%
SC-EW01-BT-201	337	SC-EW01-BT-202	376	SC-EW01-BT-203	336	350	6.5%
SC-EW02-BT-201	556	SC-EW02-BT-202	666	SC-EW02-BT-203	443	555	20%
SC-EE05-BT-201	360	SC-EE05-BT-202	791	SC-EE05-BT-203	902	684	42%
METAL: MANGANESE (mg/kg)							
CR-EC01-BT-201	77.4	CR-EC01-BT-202	52.1	CR-EC01-BT-203	71.7	67.1	20%
CR-EC02-BT-201	144	CR-EC02-BT-202	53.6	CR-EC02-BT-203	205	134	57%
SC-EW01-BT-201	14.2	SC-EW01-BT-202	19.4	SC-EW01-BT-203	20.1	17.9	18%
SC-EW02-BT-201	376	SC-EW02-BT-202	65.6	SC-EW02-BT-203	32.1	158	120%
SC-EE05-BT-201	39.5	SC-EE05-BT-202	75.7	SC-EE05-BT-203	120	78.4	51%
METAL: POTASSIUM (mg/kg)							
CR-EC01-BT-201	2470	CR-EC01-BT-202	2350	CR-EC01-BT-203	2360	2393	2.8%
CR-EC02-BT-201	3010	CR-EC02-BT-202	2770	CR-EC02-BT-203	2970	2917	4.4%
SC-EW01-BT-201	2550	SC-EW01-BT-202	1990	SC-EW01-BT-203	2260	2267	12%
SC-EW02-BT-201	2820	SC-EW02-BT-202	2320	SC-EW02-BT-203	2500	2547	10%
SC-EE05-BT-201	2340	SC-EE05-BT-202	2310	SC-EE05-BT-203	2330	2327	0.7%
METAL: SELENIUM (mg/kg)							
CR-EC01-BT-201	0.88	CR-EC01-BT-202	0.58	CR-EC01-BT-203	ND	0.73	29%
CR-EC02-BT-201	1.1	CR-EC02-BT-202	0.46	CR-EC02-BT-203	0.84	0.80	40%
SC-EW02-BT-201	0.85	SC-EW02-BT-202	1.1	SC-EW02-BT-203	1.1	1.0	14%
SC-EE05-BT-201	ND	SC-EE05-BT-202	0.44	SC-EE05-BT-203	1.0	0.72	55%
METAL: SILVER (mg/kg)							
SC-EW01-BT-201	0.65	SC-EW01-BT-202	0.82	SC-EW01-BT-203	0.77	0.75	12%
SC-EW02-BT-201	0.43	SC-EW02-BT-202	0.38	SC-EW02-BT-203	0.60	0.47	25%
SC-EE05-BT-201	1.3	SC-EE05-BT-202	1.7	SC-EE05-BT-203	0.83	1.3	34%
METAL: SODIUM (mg/kg)							
CR-EC01-BT-201	1990	CR-EC01-BT-202	1860	CR-EC01-BT-203	2200	2017	8.5%
CR-EC02-BT-201	2680	CR-EC02-BT-202	2510	CR-EC02-BT-203	2680	2623	3.7%
SC-EW01-BT-201	1940	SC-EW01-BT-202	1890	SC-EW01-BT-203	1720	1850	6.2%
SC-EW02-BT-201	2320	SC-EW02-BT-202	1760	SC-EW02-BT-203	2410	2163	16%
SC-EE05-BT-201	2660	SC-EE05-BT-202	1900	SC-EE05-BT-203	2010	2190	19%

TABLE 6-5

RESULTS OF REPLICATE TISSUE SAMPLES FOR METALS

Sample ID	Result	Sample ID	Result	Sample ID	Result	Mean Result	RSD
METAL: VANADIUM (mg/kg)							
CR-EC01-BT-201	0.36	CR-EC01-BT-202	ND	CR-EC01-BT-203	0.40	0.38	7.4%
CR-EC02-BT-201	0.42	CR-EC02-BT-202	ND	CR-EC02-BT-203	0.67	0.55	32%
SC-EW01-BT-201	0.30	SC-EW01-BT-202	ND	SC-EW01-BT-203	0.45	0.38	28%
SC-EW02-BT-201	0.73	SC-EW02-BT-202	0.32	SC-EW02-BT-203	0.35	0.47	49%
SC-EE05-BT-201	ND	SC-EE05-BT-202	0.40	SC-EE05-BT-203	0.32	0.36	16%
METAL: ZINC (mg/kg)							
CR-EC01-BT-201	19.9	CR-EC01-BT-202	21.4	CR-EC01-BT-203	27.2	22.8	17%
CR-EC02-BT-201	28.7	CR-EC02-BT-202	26.4	CR-EC02-BT-203	29.6	28.2	5.8%
SC-EW01-BT-201	20.1	SC-EW01-BT-202	23.4	SC-EW01-BT-203	22.6	22.0	7.8%
SC-EW02-BT-201	32.4	SC-EW02-BT-202	22.9	SC-EW02-BT-203	26.9	27.4	17%
SC-EE05-BT-201	24.5	SC-EE05-BT-202	27.5	SC-EE05-BT-203	26.1	26.0	5.8%

Notes : ND = compound not detected

Compounds not detected in more than one replicate sample are not shown

Mean is calculated as : Sum of the Replicates / Number of Replicates

RSD is calculated as : 100% * (Std. Dev.) / Mean.

TABLE 6-6

METALS DETECTION LIMITS RAISED DUE TO MATRIX INTERFERENCES

METAL	AFFECTED SAMPLES	
Selenium	SC-EE01-SD-201	CR-EC02-SW-201
	CR-EC02-SD-201	CR-EC02-SD-701
	SC-EE03-SD-201	SC-EE04-SD-201
Thallium	SC-EE01-SD-201	SC-EE02-SW-201
	SC-EE02-SD-201	CR-EC02-SW-201
	CR-EC02-SW-701	CR-EC02-SD-201
	CR-EC02-SD-701	SC-EE03-SW-201
	SC-EE03-SD-201	SC-EE04-SW-201
	SC-EE04-SD-201	CR-EC02-BT-201
	CR-EC02-BT-202	SC-EW02-BT-201
	SC-EE05-BT-203	

TABLE 7-1

CYANIDE SAMPLES QUALIFIED DUE TO HOLDING TIMES

Sample ID	Sampling Date	Analysis Date	Days Elapsed	Qualifier
CR-EC02-BT-201	6/14/95	7/11/95	27	UJ
CR-EC02-BT-202	6/14/95	7/11/95	27	UJ
CR-EC02-BT-203	6/14/95	7/11/95	27	UJ
SC-EW02-BT-201	6/13/95	7/11/95	28	UJ
SC-EW02-BT-203	6/13/95	7/11/95	28	UJ
SC-EE05-BT-202	6/13/95	7/11/95	28	UJ
SC-EE05-BT-203	6/13/95	7/11/95	28	UJ

TABLE 7-2

RELATIVE PERCENT DIFFERENCES FOR FIELD DUPLICATES FOR TOC

Field Duplicate Sample ID	Field Duplicate Result	Original Sample ID	Original Result	RPD
GENERAL INORGANICS : TOTAL ORGANIC CARBON (mg/kg)				
CR-EC02-SD-701	13800	CR-EC02-SD-201	16200	16%

Notes : Compounds not detected in both the field duplicate and the original sample are not shown

RPD is calculated as : 100%*(2 * |Result1 - Result2| / (Result1 + Result2)).

APPENDIX F

NPDES PERMITS AND OTHER CORRESPONDENCE

Section A
NPDES Permits

Section B U.S.
Army Corp of Engineers Letter

Section C
U.S. Department of the Interior
U.S. Fish and Wildlife Service Letter

Section A

NPDES Permits

APPENDIX F

NPDES PERMITS

Tinker Air Force Base has 10 permitted discharges into Soldier Creek, an unnamed tributary to Soldier Creek, Kuhlman Creek, and Crutcho Creek under National Pollution Discharge and Elimination System (NPDES) Permit Number OK0000809. The NPDES permit expired in August 1993; currently, Tinker AFB is operating under an extension until construction to connect the discharges to the POTW are completed. Historical review of the daily monitoring reports (DMRs) show that Tinker AFB has had several discharges since August 1993 exceeding the permit limitations for chemical oxygen demand; total suspended solids; oil and grease; chromium; copper; nickel; and phenol. Table F-1 shows the permit conditions and exceedences for Outfall 001 which permit these releases.

TABLE F-1

Tinker Air Force Base NPDES Permit Limitations from DMR (August 1993 to June 1995) Permit No. OK0000809						
Parameter (Outfall 001)	**Ave. Loading (lbs/day)**	**Max. Loading (lbs/day)**	**Ave. Concentration (mg/l)**	**Max. Concentration (mg/l)**	**Minimum**	**Permit Exceedences**
Chemical O_2 demand	563	1126	75	150	xx	9
pH	xx	xx	xx	9	6	0
TSS	113	226	15	30	xx	30
Oil and grease	xx	113	xx	15	xx	8
Cyanide	xx	0.2	xx	0.025	xx	0
Cadmium	xx	0.15	xx	0.02	xx	0
Chromium (+6)	xx	0.75	xx	0.1	xx	0
Chromium (total)	xx	0.75	xx	0.1	xx	76
Copper	xx	0.38	xx	0.05	xx	20
Lead	xx	0.76	xx	0.1	xx	0
Nickel	xx	3.75	xx	0.5	xx	4
Zinc	xx	4.5	xx	0.6	xx	0
Phenol	xx	1.5	xx	0.2	xx	2

Section B

U.S. Army Corp of Engineers Letter

DEPARTMENT OF THE ARMY
TULSA DISTRICT, CORPS OF ENGINEERS
POST OFFICE BOX 61
TULSA, OKLAHOMA 74121-0061

REPLY TO
ATTENTION OF

October 7, 1992

B
EMCS - file

Operations
Project Operations

Mr. John R. Krupovage
Tinker AFB/EMCS
Oklahoma City, OK 73145

Dear Mr. Krupovage:

Please reference the site visit of September 23, 1992, concerning a determination of permit requirements pursuant to Section 404 of the Clean Water Act. Seven sites were examined on Tinker Air Force Base (AFB) within Sections 14 and 22, Township 11 North, Range 2 West, Oklahoma County.

Based upon the site inspection with Messrs. Steven P. Buie and Gregory A. Molchan of the U.S. Army Corps of Engineers (Corps), determinations have been made for the seven areas. The following is a description of the areas and the determination made in each area. Also, maps are enclosed with each area numbered:

Area 1. JURISDICTIONAL This area is located at the entrance (directly to the east of building 3333) to Tinker AFB. The area has been identified as waters of the United States. If any work is done below the ordinary high water mark, the Corps will need to be contacted to evaluate the work under Section 404 of the Clean Water Act.

Area 2 (A&B). JURISDICTIONAL This area is located south of the Industrial Waste Treatment Plant. The area above the check dams is classified as waters of the United States, and the area below the dams is classified as a jurisdictional wetland. If work outside the "Superfund Cleanup" is done in either of these areas, the Corps will need to be contacted.

Area 3. NON-JURISDICTIONAL This area is located on the west side of building 3001, adjacent to the main air runway. The area is classified as a "drainage ditch" in which the Corps does not regulate under Section 404 of the Clean Water Act.

Area 4. JURISDICTIONAL This area is identified as the "AFFF pond" and is located northwest of building 1030. If any work is done in this area (tributary to Crutcho Creek), the Corps will need to be contacted.

Area 5. NON-JURISDICTIONAL This area is a drained lake bed that was originally built atop of buried radioactive material. There is some wetland characteristics, but the dominant species are all upland plants. Therefore, if future work is done in this area, no permit would be required pursuant to Section 404 of the Clean Water Act.

Area 6. NON-JURISDICTIONAL This is an abandoned landfill area with future plans to cap. There are no waters of the United States within this area; therefore, no permit would be required pursuant to Section 404 of the Clean Water Act.

Area 7. JURISDICTIONAL This area has a newly developed man-made pond. The drainage area going into the pond is identified as a "atypical wetland." The area meets the required vegetation, has the hydrology, but is lacking in hydric soil.

Enclosed you will find material which will answer most of your general questions concerning regulatory authority, jurisdiction, and permit evaluation. Please note jurisdiction pursuant to Section 404 of the Clean Water Act applies to all waters of the United States and adjacent wetlands.

A Regulatory Program-Applicant Information Booklet and an application for an individual permit are enclosed. If an individual permit is required for your project, you must complete the copy of the enclosed "Application for Department of the Army Permit" according to the instructions contained in the information booklet.

Also enclosed is a Nationwide permit index. Nationwide permits are designed to allow certain activities to occur with little paperwork or delay. If your project meets the scope of work of a Nationwide permit, the evaluation process of an individual permit is not necessary.

If you wish to have a copy of any of the Nationwide permits, or if you have specific questions, please contact Mr. Buie at (918) 581-7263.

Sincerely,

David A. Manning

David A. Manning
Chief, Regulatory Section

Enclosures

Section C

U.S. Department of the Interior
U.S. Fish and Wildlife Service Letter

Woodward-Clyde

Engineering & Sciences applied to the earth & its environment

July 13, 1995

Mr. Ken Frasier
U.S. Fish and Wildlife Service
Ecological Services
222 S. Houston, Suite A
Tulsa, OK 74127-8909

Dear Mr. Frasier:

Woodward-Clyde Consultants (WCC) is performing work on Tinker Air Force Base in Oklahoma City, Oklahoma. The work includes sampling sediment, water, and soil from East Soldier Creek and West Soldier Creek. The sampling areas are located within the Base boundaries. I have included maps of the project area with the general location of the creeks circled. I am interested in threatened and endangered species information for areas on Choctaw, Oklahoma and Midwest City, Oklahoma, 7.5 minute series, U.S.G.S. Topographic Quadrangle maps that are within the project boundary.

If you have any questions or comments, please feel free to contact myself or John V. Conner at (615)790-0003. I appreciate your time and help on this matter.

Sincerely,

Tracy Hibner Thompson
Senior Staff Professional

NO EFFECT FINDING

The described action will have no effect on listed species, wetlands,or other important wildlife resources.

Date 7-25-95

Consultation # 2-14-95-I-933

Approved by Kenneth D. Frazier

U.S. FISH and WILDLIFE SERVICE, TULSA, OK

F93506/July 13, 1995/NSV

Woodward-Clyde Consultants – A Subsidiary of Woodward-Clyde Group, Inc.
357 Riverside Drive (37064) • P.O. Box 680925 (37068-0925) • Franklin, Tennessee
(615) 790-0003 • Fax (615) 790-0023

APPENDIX G

BIOLOGICAL SURVEYS

APPENDIX G.1
AQUATIC VASCULAR PLANTS

Introduction

As part of the field activites, notice was made and recorded of the aquatic vegetation found in the study areas. Comparison were made between areas by measuring total counts of plants found in a 0.5 X 0.5 meter square as described in Sop-E1 (Appendix A).

Sections EE01, EE02 and EE03

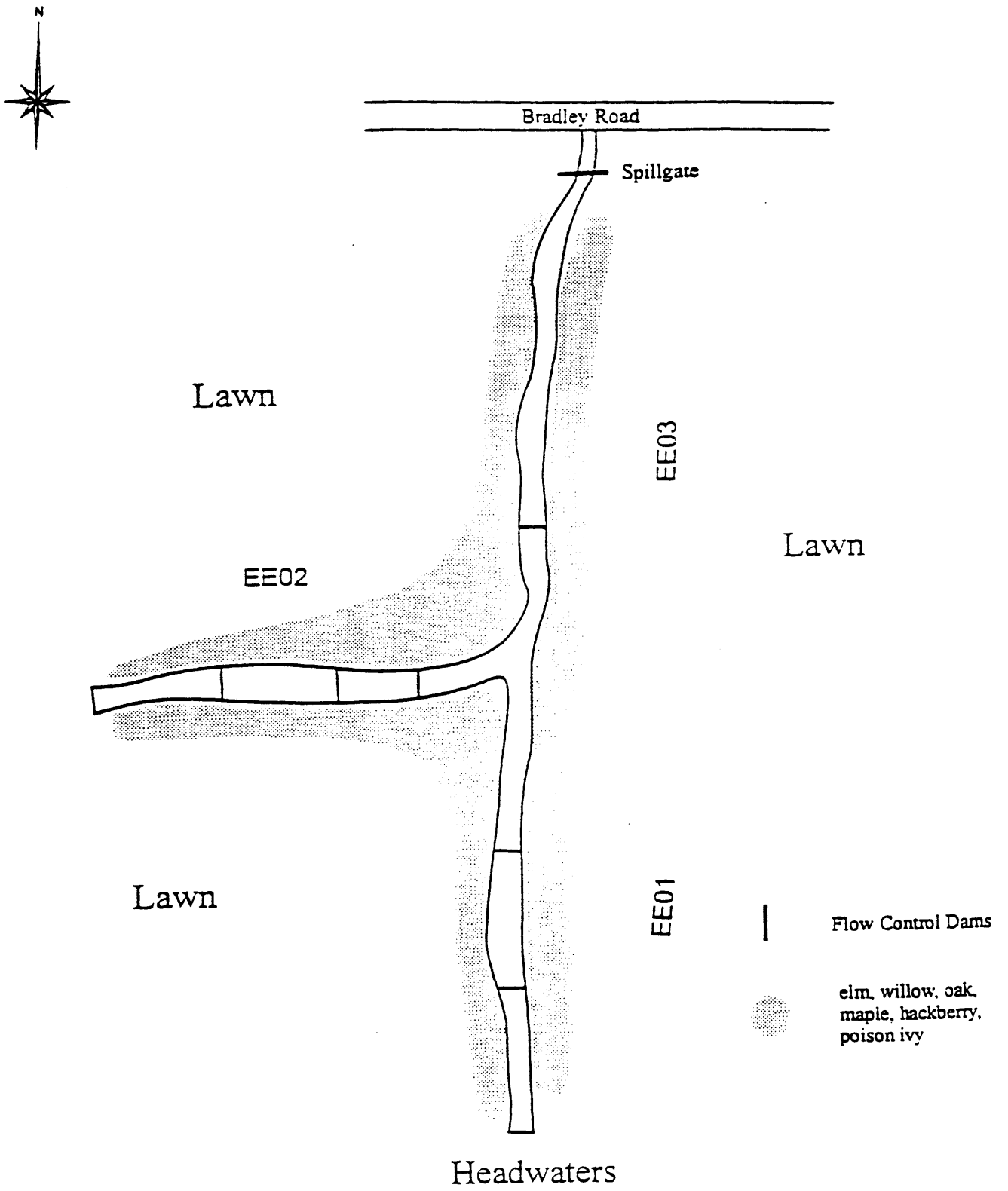
The uppermost reach of East Soldier Creek is devoid of true aquatic vegetation (Figure G-1). Rock substrate, fast flow, deep channels, and shade are limiting factors to growth.

Sections EE04, EE05 and EE06

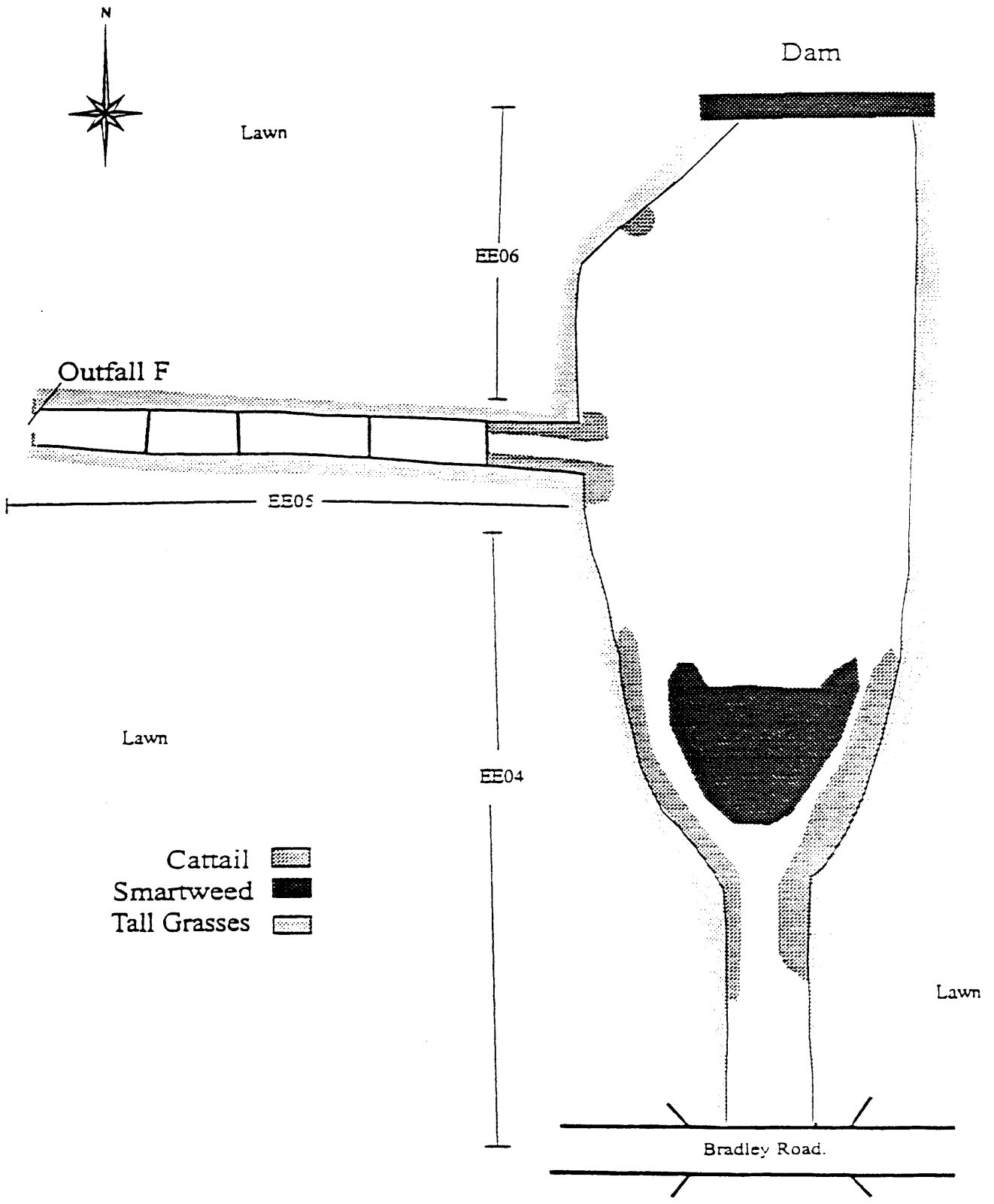
During both October and June field activities the ponded area of East Soldier Creek (Figure G-2) had relatively extensive emergent aquatic vegetation in the form of virtually monophytic stands of cattails (*Typha latifolia*) around the upper (southern) end of the pond (EE04) and the small pools on EE05 (Table G-1). Cattail is the most common species on the upper pond, forming large borders of vegetation and encroaching on the channel. The center area of water is covered with thick stands of smartweed (*Polygonum amphibium*). The vegetation disappears as the depth increases. The sides of the lower pond were free of aquatic vegetation and had a narrow fringe of tall grasses and other herbaceous plants. One small stand of cattails occurred on the north shore near the dam and may have been the first to spread into this region, as it was much less developed during the June reconnaissance. Outfall F (EE05) has thick stands of cattails in the reach closest to the pond, with decreasing numbers as the distance away from the pond increases. During the June study, arrowhead (*Sagittaria cuneata*) was found in small stands in the upper section of EE05.

Sections EE07 and EE08

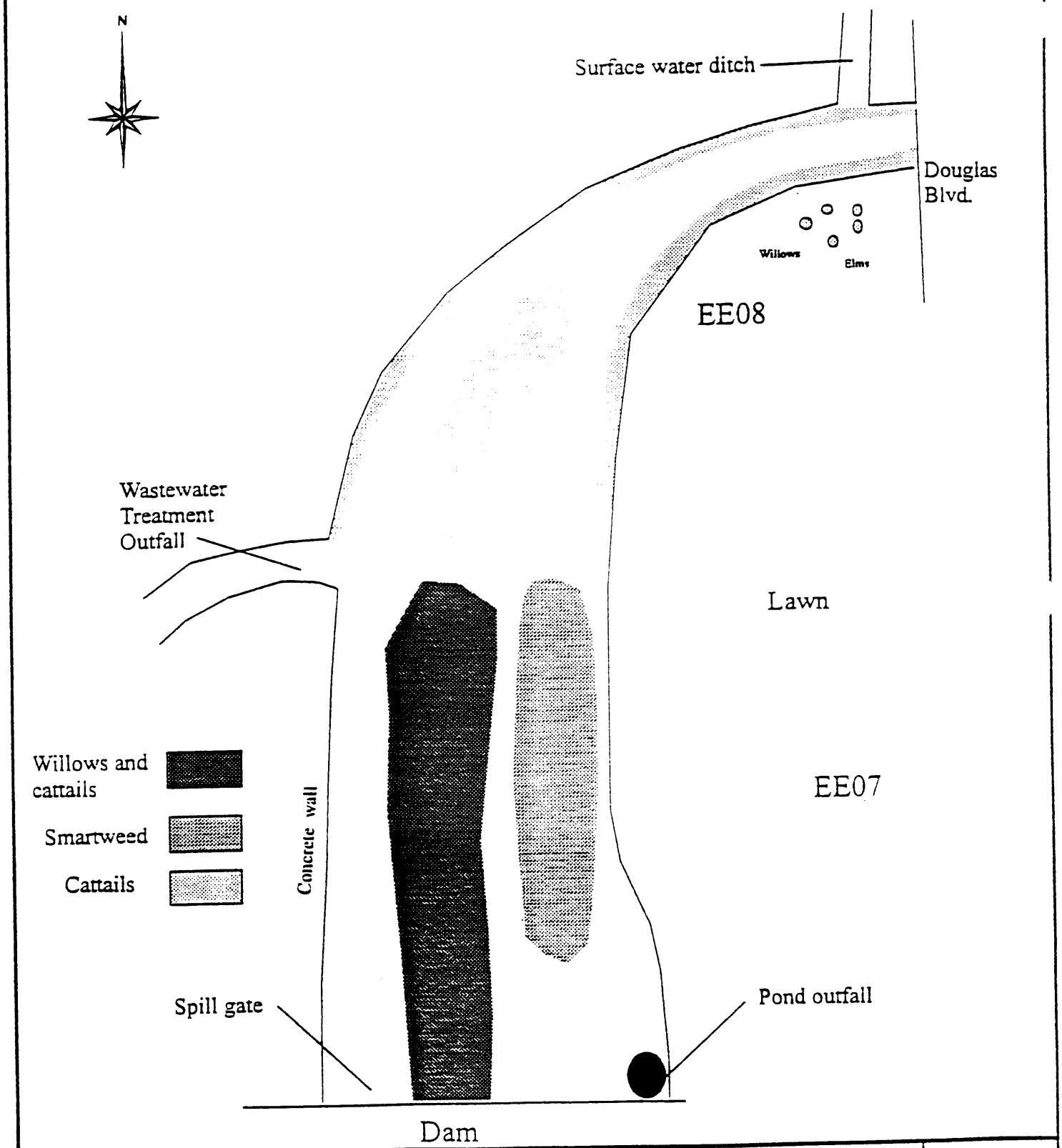
Deep sediments, gentle bank slopes, and moderate flowing water provide conditions that allow several types of aquatic plants to grow in the reach between the ponded area and Douglas Boulevard (Figure G-3, Table G-1). Cattails were found along all banks, on the center island,



Woodward-Clyde Consultants 357 Riverside Drive (37064) - P.O. Box 681059 (37068-1059) - Franklin, TN Tel: (615) 790-0003 Fax: (615) 790-0223		**VEGETATIVE COVERTYPES UPPER EAST SOLDIER CREEK (EE01, EE02, and EE03)**	FILE. NO. F93506
DRAWN BY: DLS	DATE: 01/95		FIG. NO. G-1



Woodward-Clyde Consultants 357 Riverside Drive (37064) - P.O. Box 681059 (37068-1059) - Franklin, TN Tel: (615) 790-0003 Fax: (615) 790-0023		VEGETATIVE COVERTYPES PONDED AREA OF EAST SOLDIER CREEK (EE04, EE05, and EE06)	FILE. NO. F93506
DRAWN BY: DLS	DATE: 01/95		FIG. NO. G-2



Woodward-Clyde Consultants 357 Riverside Drive (37064) - P.O. Box 681059 (37068-1059) - Franklin TN Tel: (615) 790-0003 Fax: (615) 790-0023		**VEGETATIVE COVERTYPES BELOW PONDED AREA OF EAST SOLDIER CREEK (EE07 and EE08)**	FILE. NO. F93506
DRAWN BY: DLS	DATE: 01/95		FIG. NO. G-3

TABLE G-1

NUMBERS OF VASCULAR AQUATIC PLANT SPECIMENS RECORDED FROM 0.25 M^2 PLOTS IN SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT, OKLAHOMA, OCTOBER 1994/ JUNE 1995

Stream Section	Species				
	Cattail	Smartweed	Spikerush	Arrowhead	Black Willow
EE04 Plot 1	0/6	35/3			
EE04 Plot 2	6/14	0/10			
EE04 Plot 3	6/0	14/62			
EE05 Plot 1	3/6		0/~200		
EE05 Plot 2	11/0			0/12	
EE05 Plot 3	0/3	9/0			0/1
EE06 Plot 1	23/13				
EE07 Plot 1	7/1	0/1			
EE07 Plot 2	2/20				12/0
EE07 Plot 3	4/0	0/26			3/0
EE08 Plot 1	5/12				
EE08 Plot 2	9/14				
EE08 Plot 3	9/18				
EE09 Plot 1	4/5				
EE09 Plot 2	3/6				
EE09 Plot 3	2/3				
EW01 Plot 1	3/13		55/9		
EW01 Plot 2	6/12				
EW01 Plot 3	5/18				
EW02 Plot 1	3/11				
EW02 Plot 2	5/9				
EW02 Plot 3	5/6				

and clogging the stream in places. Smartweed was found in the flowing-water portions and in areas along the banks that were not occupied by cattails. During the preliminary survey in June 1994, dense growth of spikerush (*Eleocharis* sp.) was seen along this reach, but only a few remnants (dead stalks) were observed in October and only a few specimens in June 1995.

Sections EE09 and EE10

Most of the off-base portion of East Soldier Creek was too deep and/or swiftly-flowing for vascular aquatic plant growth. A few patches of filamentous algae were observed on substrates in some of the shallower regions. The only area with the potential for aquatic vegetation is the first few yards of EE09. This stretch is directly below the Douglas Boulevard culvert and is a wide, shallow pool with very little flow. Even with these conditions, only a few cattails were present (Table G-1).

Section EW01

EW01 differs from the lower sections of West Soldier Creek by having limited flow, deep sediments, and a manmade channel. The headwaters of West Soldier Creek is a mowed ditch with grass cover. Soon after water accumulates to form the stream, cattails, spikerush, cottonwood (*Populus deltoides*), and black willows (*Salix nigra*) clog the stream channel and form an elongate marsh (Table G-1). Open areas of the stream are infrequent below this area and those that exist are areas of recent disturbance by fill activities. One short open area exists immediately before the stream is piped underground.

Sections EW03 and EW02

Rocky substrate with very little sediment limits the habitat for aquatic vegetation in the off-base portion of West Soldier Creek. Algae is found in low densities on rocks and the bed of the stream. The pool formed by the spill gate in the lower section of EW02 has softer, depositional sediment, low flow, and sufficient water to support true aquatic vegetation. A few cattails and black willow were found in in this pool (Table G-1).

Reference Streams

Crooked Oak Creek was devoid of aquatic vegetation in the area visited. Evidence along the

stream and it's banks suggested that during periods of high rainfall there could be considerable scouring at times of high flows. The steep banks, clay substrate, and normally low water levels are additional limiting factors. Crutcho Creek, the second reference stream, was also devoid of true aquatic vegetation. The stream is deeply intrenched with steep, grass covered banks.

Summary and Conclusions

Each of the groups of study sections differed in the presence and diversity of aquatic vegetation. Differences appeared to be the result of natural factors based on the physical characteristics and alterations of the streams. Flow rate, depth, and substrate texture are the key factors that influence aquatic plant growth. In all areas where conditions overtly appeared favorable to plant growth, at least some aquatic vegetation was found.

APPENDIX G.2
RIPARIAN TERRESTRIAL VEGETATION

Introduction

As described above, study sections were grouped as appropriate for consideration of riparian terrestrial vegetation. It should also be noted that many herbaceous species (i.e., annuals) were not present due to the time of year the study was conducted. Vegetation was surveyed as described in SOP-E2 (Appendix A).

Sections EE01, EE02 and EE03

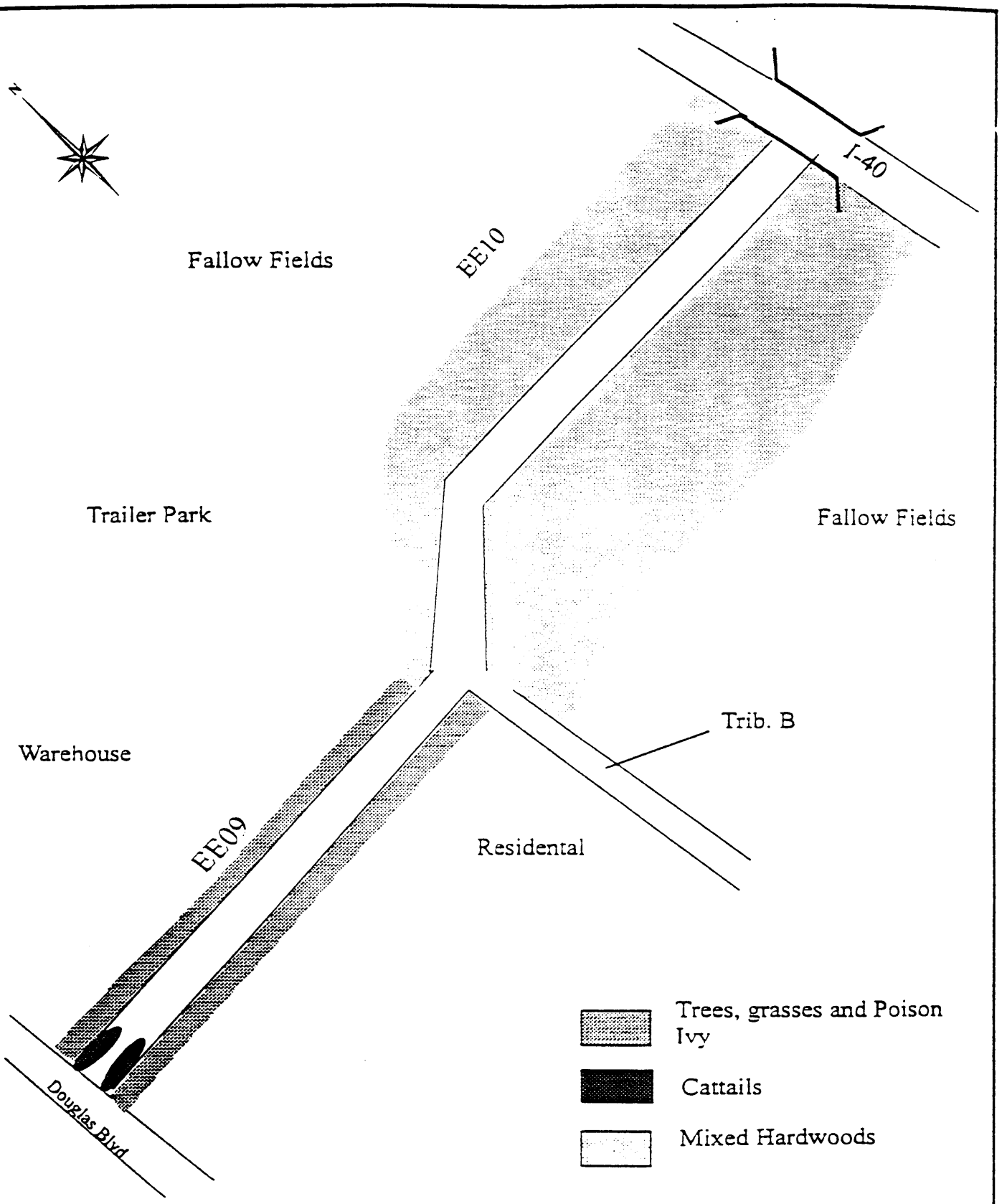
The uppermost sections of East Soldier Creek pass through a narrow zone of heavy vegetation before entering a small landscaped area near Bradley Road (Figure G-1). The overstory of the riparian woods consisted of elm (*Ulmus americana*), black willow (*Salix nigra*), oaks (*Quercus* sp.), maples (*Acer* sp.) and hackberry (*Celtis occidentalis*). The understory growth was a mixture of honeysuckle (*Lonicera japonica*), grasses, blackberry (*Rubus allegheniensis*), and bush poison ivy (*Toxicodendron radicans*).

Sections EE04-EE08

The ponded area of East Soldier Creek and the reach immediately downstream (north) flows through an area of mowed lawns with very little natural terrestrial vegetation other than grass and "weeds" (Figures G-2 and G-3). Near the water's edge, the lawn was uncut and had grown to it's full height, resulting in a fringe of herbaceous plants 2 to 4 feet wide around the pond. Two large cottonwoods (*Populus deltoides*) grow in the lower area by EE08 along with several oaks. Several elms grow on the high ground above the upper section of the pond (EE04). Along the steep banks of EE05, sunflower (*Helianthus annuus*) and yellow goatsbeard (*Tragopogom pratensis*) are the dominate species with some grasses mixed in.

Sections EE09 and EE10

The lower portion of EE09 and all of EE10 are bounded by second or third-growth hardwood forest that appears not to have been cleared in the last 20 or so years (Figure G-4). There is a mixture of oak, hickory (*Carya* sp.), elm, hackberry, boxelder (*Acer negundo*), black cherry



Woodward-Clyde Consultants 357 Riverside Drive (37064) - P.O. Box 681059 (37068-1059) - Franklin, TN Tel: (615) 790-0033 Fax: (615) 790-0223		VEGETATIVE COVERTYPES OFF-BASE EAST SOLDIER CREEK (EE09 and EE10)	FILE. NO. F93506
DRAWN BY: DLS	DATE: 01/95		FIG. NO. G-4

(*Prunus serotina*) and black locust (*Robinia pseudoacocia*). Located at the junction of EE09 and EE10 were four Kentucky coffeetrees (*Gymnocladus dioicus*), a somewhat rare species but within it's range and habitat type. The upper section of EE09 flows through a developed area with commercial and residential influences. Open field and yards take the place of the forest with a narrow band of heavy growth along the creek. This streamside "thicket" consists of black willow, boxelder, elm, cottonwood, and hackberry. Open areas are dominated by tall grasses and the bush form of poison ivy.

Section EW01

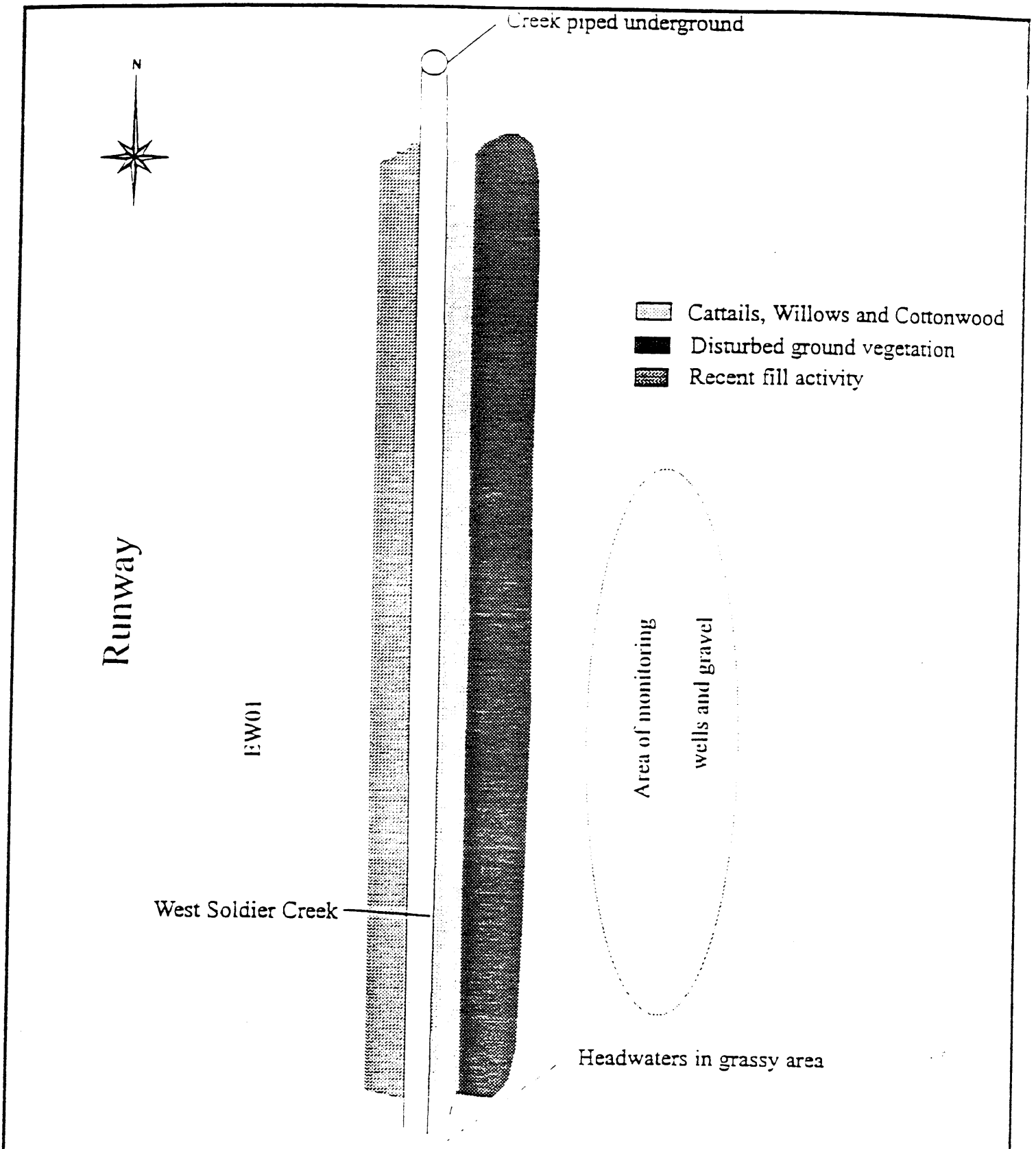
The headwater section of West Soldier Creek had a mixture of disturbed ground species along the upper banks and aquatic growth in the creek channel (Figure G-5). Most of the disturbed ground vegetation consisted of grasses, sunflower, and Spanish needles (*Bidens bipinnata*). A few small black willows and cottonwoods grow along the banks.

Sections EW02 and EW03

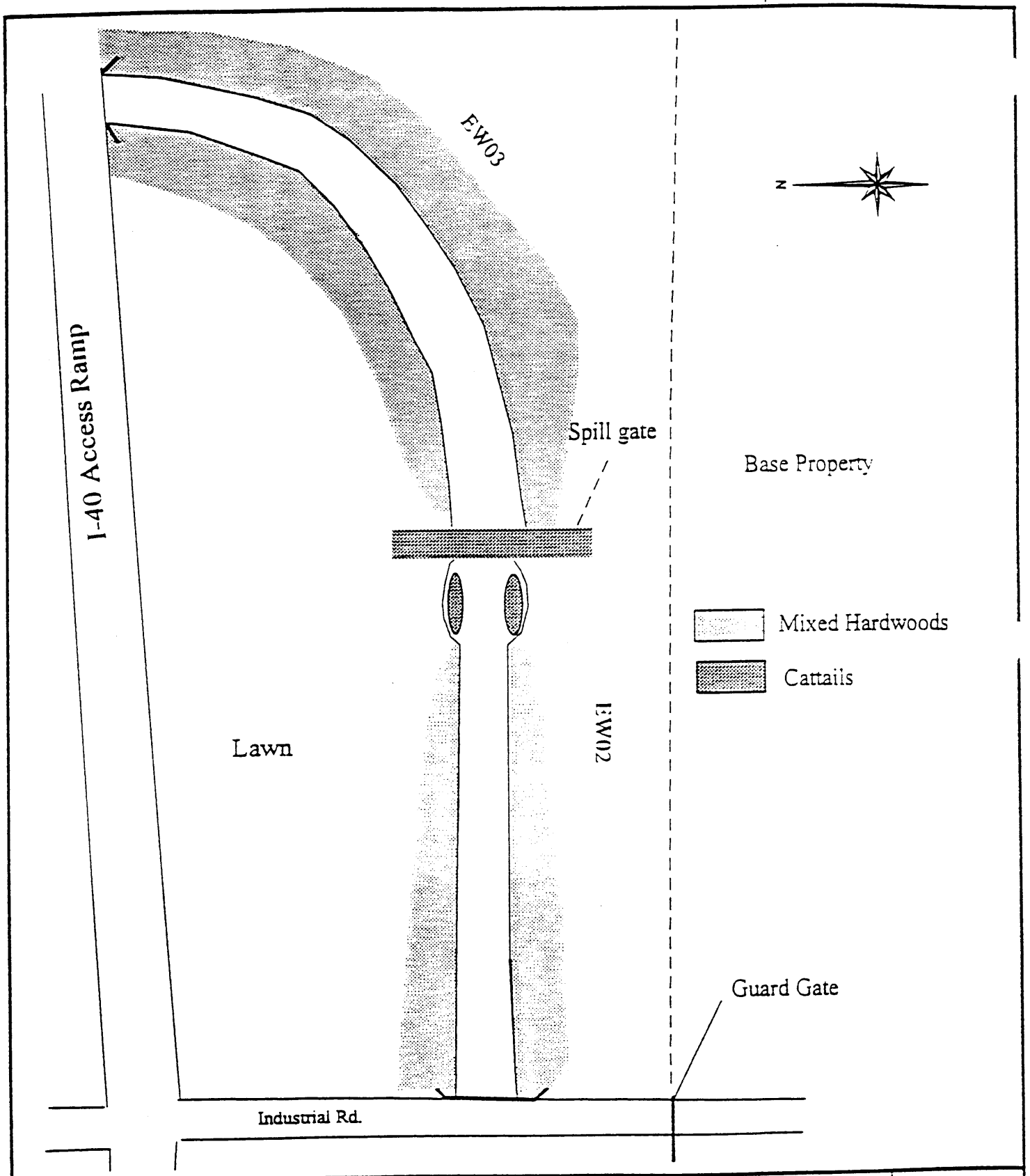
The off-base sections of West Soldier Creek occupy an area that has a mixture of mowed roadside, riparian woods, and open fields (Figure G-6). The vegetation along the upper banks of the stream consists of mowed road rights-of-way on the north and open fields (base property) on the south. The banks have a moderate growth of trees with elm, oak, boxelder, and black willow being the most common. Other species present in lesser numbers were hackberry, black locust, and hickory. The most prevalent understory growth was poison ivy, accompanied by some privet (*Ligustrum vulgare*). In an open area near the spill gate sunflower was very common, often growing down to the water's edge and mixing with cattails.

Reference Streams

Crooked Oak Creek flowed through an area that was dissimilar to any of the riparian zones along East and West Soldier Creeks. To the east of ECO1 are open fields with grasses, shrubs and scattered early successional trees. The upper western end is the same as to the east, while downstream it is replaced by residential land-use. The creek is deeply incised



Woodward-Clyde Consultants 357 Riverside Drive (37064) - P.O. Box 681059 (37068-1059) - Franklin, TN Tel: (615) 790-0003 Fax: (615) 790-0223		VEGETATIVE COVERTYPES UPPER WEST SOLDIER CREEK (EW01)	FILE. NO. F93506
DRAWN BY: DLS	DATE: 01/95		FIG. NO. G-5



Woodward-Clyde Consultants 357 Riverside Drive (37064) - P.O. Box 681059 (37068-1059) - Franklin, TN Tel: (615) 790-0003 Fax: (615) 790-0223		**VEGETATIVE COVERTYPES OFF-BASE WEST SOLDIER CREEK (EW02 and EW03)**	FILE. NO. F93506
DRAWN BY: DLS	DATE: 01/95		FIG. NO. G-6

with little vegetation on the banks close to the stream. Trees along the upper bank include elm, black locust, black willow, and yellow popular (*Liriodendron tulipifera*). Trees in the fields include elms, dogwood, black locust, and yellow popular. Areas of heavy honeysuckle and blackberry growth intersected the patches of tall grasses.

Crutcho Creek flows through an area of residential useage that influnces the riparian growth. Growth ranges from lawns to areas of mature hardwoods and all ranges inbetween. Oaks, elms, willows and populars are the predominant species.

Summary and Conclusions

In general, land usage seemed to be controlling terrestrial vegetation along the study units. The extensive disturbance on upper West Soldier Creek (EW01) with fill activities, well drilling, and gravel drives, keeps perennial vegetation from growing. Species found in the area were either disturbed ground plants or species that could grow at or in the water's edge where human activities had not affected the area. The off-base sections on each creek (EW02, EW03, EE09 and EE10) appear to have relatively stable riparian forests, as these areas are allowed to proceed through successional changes. The sections on West Soldier Creek are likely to remain as is due to the small area with no development potential. Off-base sections on East Soldier Creek have a higher probability of being developed in the future. The middle sections of East Soldier Creek (EE04 through EE08) are influenced by base activities that keep the area mowed, fill dirt being added, and planting of some trees in a landscaped format. The upper section of East Soldier Creek (EE01-EE03), while in a landscaped portion of the base, also includes a wider zone of uninhibited growth. The vegetation along uppermost sections of the creek is characteristic of middle successional growth, with moderate understory and emergent forest growth. If left to develop naturally, the forest growth will eventually shade out the understory.

APPENDIX G.3
AQUATIC (BENTHIC) INVERTEBRATES

Introduction

A survey of benthic invertebrates in East and West Soldier Creeks was performed to characterize the taxonomic composition and relative abundance of aquatic invertebrate communities, as well as to assist in interpretation of other EA results (particularly contaminant distribution and toxicity testing). The approach and specific methods for the benthic invertebrate survey are described in the Workplan (WCFS 1994), and summarized in Section 3.0 of the body of the report. Specific methods used for sampling, processing, and analyses of results are also found in SOP-E3 (Appendix A).

Replicated standardized grab samples and a supplementary qualitative kick net sample were taken in each of 10 sections in East Soldier Creek, three sections in West Soldier Creek, and two sections in a reference stream. To provide some indication of seasonal variation, sampling was performed during October 1994 and June 1995. However, the initial sampling (of benthic invertebrates and other attributes) indicated that the original reference stream, Crooked Oak Creek, was substantially contaminated and unsuitable. A second reference stream, Crutcho Creek was used during June 1995.

Community Composition

A total of 106 benthic macroinvertebrate taxa was encountered (66 in October 1994 and 78 in June 1995) from Soldier Creek and reference streams (Tables 2-2 and G-2). Eighty-eight (88) of these taxa were found in Soldier Creek. The species composition and their relative abundance in June 1995 were somewhat different than in October 1994 in all streams, especially with respect to worms (oligochaetes) and emerging insects (e.g., odonates, chironomids, and other dipterans). The insects which have adult terrestial adult show seasonal variation in emerging patterns, which has an effect on aquatic larval density in different seasons.

TABLE G-2
LIST OF BENTHIC MACROINVERTEBRATE TAXA FROM SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM

Phylum PLATYHELMINTHES
- Class Turbellaria
  - Order Tricladida
    - Family planariidae(Planarians)

Phylum NEMATODA (nematodes)

Phylum ANNELIDA (segmented worms)
- Class Hirudinea (leeches)
- Class Oligochaeta (oligochaetes)
  - Family Naididae
    - *Dero digitata*
    - *Dero lodeni*
    - *Dero nevia*
    - *Dero obtusa*
    - *Dero* sp.
    - *Nais pardalis*
    - *Nais variabilis*
    - *Pristina leidyi*
    - *Pristina synclites*
    - *Pristina* sp.
    - *Pristinella* sp.
  - Family Tubificiidae
    - *Aulodrilus pigueti*
    - *Branchiura sowerbyi*
    - *Ilyodrilus templetoni*
    - *Limnodrilus hoffmeisteri*
    - *Limnodrilus tortilipenis*
    - *Limnodrilus udekemianus*
    - Immature bifids
    - Immature with hair and pectinate
  - Family Enchytraeidae
- Megadrili (large semiaquatic worms)

Phylum MOLLUSCA (mollusks)
- Class Gastropoda (snails, etc.)
  - Family Physidae
    - *Physella*
- Class Pelecypoda (bivalves)
  - Family Corbiculidae
    - *Corbicula*

TABLE G-2

LIST OF BENTHIC MACROINVERTEBRATE TAXA FROM SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM (Continued)

Family Sphaeriidae (fingernail clams)
Family Unionidae
Toxolasma

Phylum ARTHROPODA (arthropods)
Class Crustacea (crustaceans)
Order Ostracoda (ostracods)
Order Isopoda (isopods)
Order Decapoda (decapods)
Family Cambaridae
Orconectes

Class Arachnida (spiders, mites, etc.)
Order Hydracarina (water mites)

Class Insecta (insects)
Order Collembola (springtails)

Order Hemiptera (bugs)
Family Notonectidae (back swimmers)
Family Corixiidae (water boatmen)
Family Herbridae(velvet water bugs)
Hebrus
Family Belostomatidae(giant water bugs)
Belostoma
Order Coleoptera (beetles)
Family Curculionidae (weevils)
Family Dytiscidae (predacious water beetles)
Copelatus
Hydroporus
Family Elmidae(riffle beetles)
Stenelmis
Family Haliplidae(crawling water beetles)
Peltodytes
Family Hydrophilidae (water scavenger beetles)
Berosus
Enochrus
Heloechares
Order Odonata (odonates)

TABLE G-2

LIST OF BENTHIC MACROINVERTEBRATE TAXA FROM SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM (Continued)

Suborder Zygoptera(damselflies)
Family Coenagrionidae
Argia
Argiallagma
Coenagrion
Enallagma
Family Lestidae
Archilestes
Lestes
Suborder Anisoptera (dragonflies)
Family Aeshnidae
Family Gomphidae
Gomphus
Family Libellulidae
Erythemis
Orthemis
Perithemis
Sympetrum
Unidentified early instars
Order Ephemeroptera (mayflies)
Family Caenidae
Caenis
Family Baetidae
Baetis
Order Lepidoptera (aquatic moths)
Order Diptera (flies)
Family Ceratopogonidae (sand flies)
Family Chironomidae (midges)
Ablabesmyia
Apedilum
Chironomus
Clinotanypus
Conchapelopia
Cricotopus
Cryptochironomus
Dicrotendipes
Endochironomus
Eukiefferiella
Goeldichironomus

TABLE G-2

LIST OF BENTHIC MACROINVERTEBRATE TAXA FROM SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM
(Continued)

Fittkauimyia
Larsia
Microspectra
Nanocladius
Natarsia
Orthocladius
Paracricotopus
Paratanytarsus
Polypedilum
Procladius
Psectrotanypus
Pseudosmittia (semiaquatic)
Smittia (semiaquatic)
Strictochironomus
Tanypus
Tanytarsus
Thienemanniella

Family Canaceidae (beach flies)
Family Culicidae (mosquitoes)
Family Dolichopodidae (longlegged flies)
Family Empididae (dance flies)
Family Ephydridae (shore flies and brine flies)
Family Muscidae (house, stable, and horn flies)
Family Psychodidae (moth flies)
Family Stratiomyidae (soldier flies)
Family Syrphidae (flower flies)
Family Tipulidae (crane flies)
Family Tabanidae (horse flies)

Other unidentified specimen

A summary of the numbers of benthic macroinvertebrates found in each standardized grab sample appears in Tables G-3 and G-4. These data were also subjected to Cluster and Sigtree statistical analyses (Nemec 1991a and 1991b). Oligochaetes (24 taxa plus three unidentified immature Tubificidae, Enchytraeidae, and large semiaquatic worms) and chironomids (27 genera) were the richest groups in all habitats, both in terms of densities or relative abundance and diversity (as taxonomic richness). Oligochaetes were generally dominant at most sections. East Soldier Creek had relatively lower overall species richness (60 taxa) than West Soldier Creek (71 taxa). Reference streams had lower species richness than West Soldier Creek and higher than East Soldier Creek when individual sections were compared. Although West Soldier Creek had relatively higher species richness than the other creeks, almost all taxa from all the creeks were organic pollution tolerant taxa (USEPA 1990). Overall, the benthic macroinvertebrate species richness was relatively poor in the study area streams, compared to what might be expected in a natural headwater creek in the region (Brinkhurst 1986, Merritt and Cummins 1984, Pennak 1989, and Thorp and Covich 1991).

The lack of pollution-sensitive faunal groups such as Amphipoda (scuds), Ephemeroptera (mayflies), Plecoptera (stoneflies), Trichoptera (caddisflies), and Hydracarina (water mites), as well as the prevalence of pollution-tolerant benthic groups in all sections of East Soldier Creek suggests that this creek is stressed (USEPA 1990). The presence of mayflies, and other arthropods (excluding scuds, stoneflies, caddisflies, and water mites) and a higher diversity in West Soldier Creek and reference streams indicates these streams have relatively better water and sediment quality than East Soldier Creek. However, the presence of deformed ligula (mouth parts) in some of the chironomids from both East and West Soldier Creeks as well as from the reference streams shows a further indication of stress; deformed ligula represent a response to pollution (Cushman 1984; Warwick 1988; and Warwick and Tisdale 1988).

There was substantial variation in benthic macroinvertebrate distribution among East Soldier, West Soldier, and reference streams. The total number of individuals per grab collected ranged from 1 to 4697 in East Soldier Creek and 31 to 14,920 in West Soldier Creek. The total number of individuals per grab ranged from 17 to 1904 in Crooked Oak Creek and 233 to 836 in Crutcho Creek. Overall, more individual were collected from sections EE06 and EE07 of East Soldier Creek and sections EW01 and EW02 of West Soldier Creek in June 1995 than October 1994. Relatively fewer individuals were collected from upper sections (EE01, EE02 and EE03) than lower sections of East Soldier Creek.

TABLE G-3

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier Creek														
	Section EE01			Section EE02			Section EE03			Section EE04			Section EE05		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Planariidae		1			1			3							
Nematoda				1	5					354	3	77	10	11	6
Oligochaeta															
Dero lodeni				6	13	8	1	1	1				9		10
Nais variabilis															
Pristina synclites															
Aulodrilus pigueti															
Ilyodrilus templetoni											29		198		54
Limnodrilus hoffmeisteri										312	667	270	9		
Limnodrilus tortilipenis															
Immature bifids	1		2	1	1					1872	1450	1539	297	50	531
Immature with hair & pectinate		1								130	87	27	324	40	135
Enchytraeidae				1	3		1		1						
Gastropoda															
Physella															
Ostracoda														1	3
Collembola															
Coleoptera							1								
Dytiscidae															
Odonata															
Argiallagma													3	7	1
Coenagrion															
Enallagma															
Lestes															
Gomphus															
Orthomis															
Un ID Libellulidae															
Ephemeroptera															
Baetis															

TABLE G-3

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier Creek														
	Section EE01			Section EE02			Section EE03			Section EE04			Section EE05		
Taxa/Replicate	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**	**1**	**2**	**3**
Ceratopogonidae												1	1		
Chironomidae Larvae															
Ablabesmyia															
Chironomus			1	1						12	8	4	17		5
Cricotopus														1	
Cryptochironomus															
Dicrotendips		1													
Endochironomus															
Eukiefferiella															
Goeldichironomus													10	4	11
Fittkauimyia							2	3							
Larsia													1		
Orthocladius															
Paracricotopus												1			
Polypedilum							1				1				
Procladius													1	1	
Psectrotanypus										1					
Tanypus								2			5	1	7		2
Chironomidae pupae												1		2	
Other Diptera															
Culicidae															
Tabanidae															
Other Misc.															
Total number of individuals by replicate	1	3	3	10	23	8	6	9	2	2681	2250	1921	887	117	758
Average number of individuals by site		2			14			6			2284			587	
Total taxa by replicate	1	3	2	5	5	1	5	4	2	6	8	9	13	9	10
Total taxa by site		5			6			7			12			16	
Additional taxa from Qualitative data		4			3			3			14			4	

TABLE G-3

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier Creek														
	Section EE06			Section EE07			Section EE08			Section EE09			Section EE10		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Planariidae															
Nematoda	2				1	2	1								
Oligochaeta															
Dero lodeni				6		13	54	180	432	12	62	46	23	18	
Nais variabilis					30				48						
Pristina synclites															
Aulodrilus pigueti					45	205									
Ilyodrilus templetoni	126	3	31	27	45	117									
Limnodrilus hoffmeisteri		1		18	315	52	468	180	1087	404	186	70	506	97	361
Limnodrilus tortilipenis															
Immature bifids	18	1	10	64	315	426	1099	2430	3120	452	1240	301	1504	424	514
Immature with hair & pectinate	276	14	148	118	511	494									
Enchytraeidae															
Gastropoda															
Physella				1		2									
Ostracoda			25	550		355									
Collembola															
Coleoptera															
Dytiscidae															
Odonata															
Argiallagma															
Coenagrion															
Enallagma															
Lestes															
Gomphus															
Orthomis															
Un ID Libellulidae															
Ephemeroptera															
Baetis															

TABLE G-3

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier Creek														
	Section EE06			Section EE07			Section EE08			Section EE09			Section EE10		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Ceratopogonidae				1	3	1		1	7	1	2	1			
Chironomidae Larvae															
Ablabesmyia									1						
Chironomus							1		1				4	3	2
Cricotopus															
Cryptochironomus															
Dicrotendips															
Endochironomus															
Eukiefferiella															
Goeldichironomus															
Fittkauimyia				1											
Larsia															
Orthocladius															
Paracricotopus															
Polypedilum							2	2	1				7	3	1
Procladius				1		1									
Psectrotanypus															
Tanypus	2														
Chironomidae pupae							2								
Other Diptera															
Culicidae															
Tabanidae															
Other Misc.															
Total number of individuals by replicate	424	19	214	787	1265	1668	1627	2793	4697	869	1490	418	2044	545	878
Average number of individuals by site		219			1240			3039			926			1156	
Total taxa by replicate	5	4	4	10	8	11	7	5	8	4	4	4	5	5	4
Total taxa by site		7			13			10			4			5	
Additional taxa from Qualitative data		8			6			7			4			5	

TABLE G-3

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	West Soldier Creek									Crooked Oak Creek					
	Section EW01			Section EW02			Section EW03			Section EC01			Section EC02		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Planariidae	2					1	1								
Nematoda	38	2	12	6		4			2	1					
Oligochaeta															
Dero lodeni		2	3	1		1	1	3	1					2	
Nais variabilis							1								
Pristina synclites										1824	128	281	2	14	
Aulodrilus pigueti															
Ilyodrilus templetoni	15	4	1												
Limnodrilus hoffmeisteri		2		2					1		24	8	2	6	3
Limnodrilus tortilipenis												8			
Immature bifids	335	58	38	65	17	29		11	9	50	76	84	20	13	11
Immature with hair & pectinate	95	73	18	1						25	3			1	
Enchytraeidae															
Gastropoda															
Physella	2	1				1	1	1		1	1				
Ostracoda	10	6	13	1	1	4	22	12	6						
Collembola											3				2
Coleoptera															
Dytiscidae	1		1												
Odonata															
Argiallagma															
Coenagrion	1					5									
Enallagma				2	2										
Lestes						1									
Gomphus									1						
Orthomis				4											
Un ID Libellulidae			2				2	1		1					
Ephemeroptera															
aetis	1			4		5	1	6	3						

TABLE G-3

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	West Soldier Creek									Crooked Oak Creek					
	Section EW01			Section EW02			Section EW03			Section EC01			Section EC02		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Ceratopogonidae				1						1	1				
Chironomidae Larvae															
Ablabesmyia					2		5	2	20						
Chironomus	108	23	38	49	6	66	10	6	27			1			
Cricotopus			2		1	8	60	24	12						
Cryptochironomus					2						2		1	1	
Dicrotendips	4			16	29	10	174	56	92	1					
Endochironomus					1	8									
Eukiefferiella						2									
Goeldichironomus	118	11	20						4			1			1
Fittkauimyia									4						
Larsia	4	3	8	4		8	5		4						
Orthocladius												1			
Paracricotopus															
Polypedilum						4		4	4						
Procladius					1										
Psectrotanypus															
Tanypus				134	1										
Chironomidae pupae			4	6	2	1	8	14	2						
Other Diptera															
Culicidae	1														
Tabanidae	6	3	1						1						
Other Misc.															
Total number of individuals by replicate	741	188	161	296	66	158	291	140	193	1904	238	384	25	37	17
Average number of individuals by site		363			173			208			842			26	
Total taxa by replicate	16	12	14	15	13	17	13	12	17	8	8	7	4	6	4
Total taxa by site		21			26			21			15			8	
Additional taxa from Qualitative data		6			7			8			8			8	

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	East Soldier Creek														
	Section EE01			Section EE02			Section EE03			Section EE04			Section EE05		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Planariidae					1						1				
Nematoda	1									1			2		
Oligochaeta															
Bratislavia unidentata															
Dero digitata					4								10	42	2
Dero lodeni															
Dero obtusa															
Dero sp				1	5	1							47	32	12
Nais pardalis															
Nais variabilis															
Pristina sp													1		
Aulodrilus pigueti															
Branchiura sowerbyi															
Ilyodrilus templetoni										34		12			1
Limnodrilus cervix										17		24			
Limnodrilus hoffmeisteri				1	1	1				47	1	71	2	32	8
Limnodrilus udekemianus															
Tubifex tubifex															
Immature bifids	2	4	1	42	30	2	5	4	5	194	3	192	36	59	42
Immature with hair & pectinate										20		15		4	1
Enchytraeidae				2		1	2				1				
Megadrili (Large semiaquatic worms)	1			1	1										
Gastropoda															
Physella													3		
Pelecypoda															
Corbiculidae															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

Taxa/Replicate	East Soldier Creek														
	Section EE01			Section EE02			Section EE03			Section EE04			Section EE05		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Corbicula															
Sphaeriidae															
Unionidae															
Toxolasma															
Ostracoda															
Collembola		1	2	2	2	1			2		1	1		1	
Decapoda															
Orconectes															
Hemiptera															
Corxidae													1	1	
Herbridae															
Hebrus															
Belostomatidae															
Belostoma															
Coleoptera															
Dytiscidae													1		
Copelatus															
Hydroporus															
Elmidae															
Stenelmis															
Haliplidae															
Peltodytes															
Hydrophilidae															
Berosus															
Enochrus															
Heloechares															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	East Soldier Creek														
	Section EE01			Section EE02			Section EE03			Section EE04			Section EE05		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Odonata															
Argiallagma															
Ephemeroptera															
Baetis															
Caenis															
Ceratopogonidae															
Chironomidae Larvae															
Ablabesmyia															
Chironomus															
Clinotanypus															
Conchapelopia															
Cricotopus	3						1		2			2	8	13	4
Cryptochironomus															
Goeldichironomus															
Fittkauimyia															
Larsia															
Microspecta															
Nanocladius															
Natarsia														1	
Paratanytarsus															
Polypedilum															
Procladius															
Psectrotanypus															
Pseudosmittia (semiaquatic)															
Smittia (Semiaquatic)															
Stictochironomus															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

Taxa/Replicate	East Soldier Creek														
	Section EE01			Section EE02			Section EE03			Section EE04			Section EE05		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Tanypus															
Tanytarsus															
Chironomidae pupae													5	4	
Other Diptera															
Canaceidae															
Culicidae															
Dolichopodidae															
Empididae															
Ephydridae															
Muscidae															
Psychodidae															
Syrphidae															
Tipulidae													1		
Other Misc.						1		1			1				
Total number of individuals by replicate	7	5	3	49	44	7	8	5	9	313	8	317	117	189	70
Average number of individuals by site		5			33			7			213			125	
Total taxa by replicate	4	2	2	6	7	6	3	2	3	6	6	7	12	10	7
Total taxa by site		5			9			5			11			16	
Additional taxa from Qualitative data		4			4			5			2			1	

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	East Soldier Creek														
	Section EE06			Section EE07			Section EE08			Section EE09			Section EE10		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Planariidae				2	1										
Nematoda	2	7	42			2				1	2	2		1	
Oligochaeta															
Bratislavia unidentata															
Dero digitata											6		3	4	8
Dero lodeni				18	22				8			4			
Dero obtusa												4			
Dero sp						22	6	19	8	1	30	4	21	2	
Nais pardalis															
Nais variabilis														2	
Pristina sp															
Aulodrilus pigueti	14	15	124	55									3		8
Branchiura sowerbyi															
Ilyodrilus templetoni	14	15	165	18		90					6	4			
Limnodrilus cervix	14	15	62												
Limnodrilus hoffmeisteri	7	107	21	73	216	157	12	57	16	5	59	42	3	10	8
Limnodrilus udekemianus															
Tubifex tubifex															
Immature bifids	79	652	752	964	1056	1084	502	812	716	23	426	342	271	188	745
Immature with hair & pectinate	554	652	876	673	668	691	12		8			4			
Enchytraeidae															
Megadrili (Large semiaquatic worms)															
Gastropoda															
Physella		3	1				3	2	5		1				4
Pelecypoda															
Corbiculidae															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

Taxa/Replicate	East Soldier Creek														
	Section EE06			Section EE07			Section EE08			Section EE09			Section EE10		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Corbicula															
Sphaeriidae				1											
Unionidae															
Toxolasma															
Ostracoda				20	10	30									
Collembola															
Decapoda															
Orconectes															
Hemiptera															
Corxidae															
Herbridae															
Hebrus															
Belostomatidae															
Belostoma															
Coleoptera															
Dytiscidae															
Copelatus															
Hydroporus															
Elmidae															
Stenelmis															
Haliplidae															
Peltodytes															
Hydrophilidae															
Berosus															
Enochrus															
Heloechares															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	East Soldier Creek														
	Section EE06			Section EE07			Section EE08			Section EE09			Section EE10		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Odonata															
Argiallagma		1													
Ephemeroptera															
Baetis															
Caenis															
Ceratopogonidae	1		2	1		5									
Chironomidae Larvae															
Ablabesmyia															1
Chironomus															
Clinotanypus															
Conchapelopia															
Cricotopus			1	54	14	21								2	
Cryptochironomus															
Goeldichironomus															
Fittkauimyia						1									
Larsia															
Microspecta															
Nanocladius															
Natarsia															
Paratanytarsus															
Polypedilum															
Procladius															
Psectrotanypus															
Pseudosmittia (semiaquatic)															
Smittia (Semiaquatic)															
Stictochironomus															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

Taxa/Replicate	East Soldier Creek														
	Section EE06			Section EE07			Section EE08			Section EE09			Section EE10		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Tanypus	7	190	42	10	1	6			1		3				
Tanytarsus					1										
Chironomidae pupae		1	5	3	2	1							1		
Other Diptera															
Canaceidae															
Culicidae															
Dolichopodidae															
Empididae															
Ephydridae															
Muscidae															
Psychodidae															
Syrphidae															
Tipulidae															
Other Misc.						1									
Total number of individuals by replicate	692	1658	2093	1892	1991	2111	535	890	762	30	533	406	302	209	774
Average number of individuals by site		1481			1998			729			323			428	
Total taxa by replicate	9	11	12	13	10	13	5	4	7	4	8	8	6	7	6
Total taxa by site		13			18			7			11			10	
Additional taxa from Qualitative data		1			2			3			1			0	

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	West Soldier Creek									Crutcho Creek					
	Section EW01			Section EW02			Section EW03			Section CR01			Section CR02		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Planariidae	23	18	10	5	4	7	1	1	1						
Nematoda	138	117	69	15	12	11		1		7	5		23	3	10
Oligochaeta															
Bratislavia unidentata											3		2		
Dero digitata			28	144	70	173							2		
Dero lodeni	26	32	14	289	70			3							
Dero obtusa															
Dero sp		32	14		210	289	1	2	3						2
Nais pardalis													4		2
Nais variabilis															
Pristina sp								1					2		
Aulodrilus pigueti															
Branchiura sowerbyi										4		1	1	8	2
Ilyodrilus templetoni															
Limnodrilus cervix						58					3				
Limnodrilus hoffmeisteri	80	64	126	144	70	405		3	2				2	4	2
Limnodrilus udekemianus											3				
Tubifex tubifex			28	144		173									
Immature bifids	2121	2562	897	12695	5864	4389	5	9	10	400	245	368	159	164	125
Immature with hair & pectinate	457	460	298	1298	519	351			3		3		4	4	
Enchytraeidae								1			3		24	18	85
Megadrili (Large semiaquatic worms)					70	58	3	4	6				7	3	5
Gastropoda															
Physella	8	19	3	84	78	55	2	5	6				1		
Pelecypoda															
Corbiculidae															

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	West Soldier Creek									Crutcho Creek					
	Section EW01			Section EW02			Section EW03			Section CR01			Section CR02		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Corbicula													2		
Sphaeriidae										41	19	6			
Unionidae															
Toxolasma										1					
Ostracoda				10	20	10			10						
Collembola	2			5	1	1	1		1				1		1
Decapoda															
Orconectes													1		
Hemiptera															
Corxidae															
Herbridae															
Hebrus		1													
Belostomatidae															
Belostoma		1													
Coleoptera															
Dytiscidae	3														
Copelatus	8	4	1												
Hydroporus											1				
Elmidae															
Stenelmis															1
Haliplidae															
Peltodytes				1		3		1							
Hydrophilidae															
Berosus						1									
Enochrus				1											
Heloechares	1														

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	West Soldier Creek									Crutcho Creek					
	Section EW01			Section EW02			Section EW03			Section CR01			Section CR02		
Taxa/Replicate	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Odonata															
Argiallagma	1					1									
Ephemeroptera															
Baetis				1	1										
Caenis													1		2
Ceratopogonidae	6	13	1	2		3				1	1		2		
Chironomidae Larvae															
Ablabesmyia														1	
Chironomus	47	91	78	13	12	22									
Clinotanypus				2	1										
Conchapelopia											4				
Cricotopus	3	5			3		15			10	52	35	6		7
Cryptochironomus										20	12		9	2	7
Goeldichironomus	3														
Fittkauimyia															
Larsia	71	172	60	2	4	2	2								
Microspecta					1	4	1								
Nanocladius										10					1
Natarsia	6														
Paratanytarsus				2	3	6	1								
Polypedilum													6	2	1
Procladius						6									
Psectrotanypus					4										
Pseudosmittia (semiaquatic)			3	4		2									
Smittia (Semiaquatic)				2										1	
Stictochironomus										342	136	222	87	21	19

TABLE G-4

QUANTITATIVE (STANDARDIZED GRAB) DATA OF BENTHIC MACROINVERTEBRATES FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

Taxa/Replicate	West Soldier Creek									Crutcho Creek					
	Section EW01			Section EW02			Section EW03			Section CR01			Section CR02		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Tanypus				50	20	30									
Tanytarsus															
Chironomidae pupae	1	12	5	6	10	3	1					2	2	2	3
Other Diptera															
Canaceidae													1		
Culicidae	1						4								
Dolichopodidae	2												1		
Empididae												1			
Ephydridae		1													
Muscidae	1			1											
Psychodidae	1	3				1									
Syrphidae	1														
Tipulidae			1												
Other Misc.															1
Total number of individuals by replicate	3011	3607	1636	14920	7047	6064	37	31	42	836	490	635	350	233	276
Average number of individuals by site		2751			9344			37			654			286	
Total taxa by replicate	24	18	17	24	22	26	12	11	9	10	14	7	24	13	18
Total taxa by site		32			34			20			19			29	
Additional taxa from Qualitative data		1			4			2			6			2	

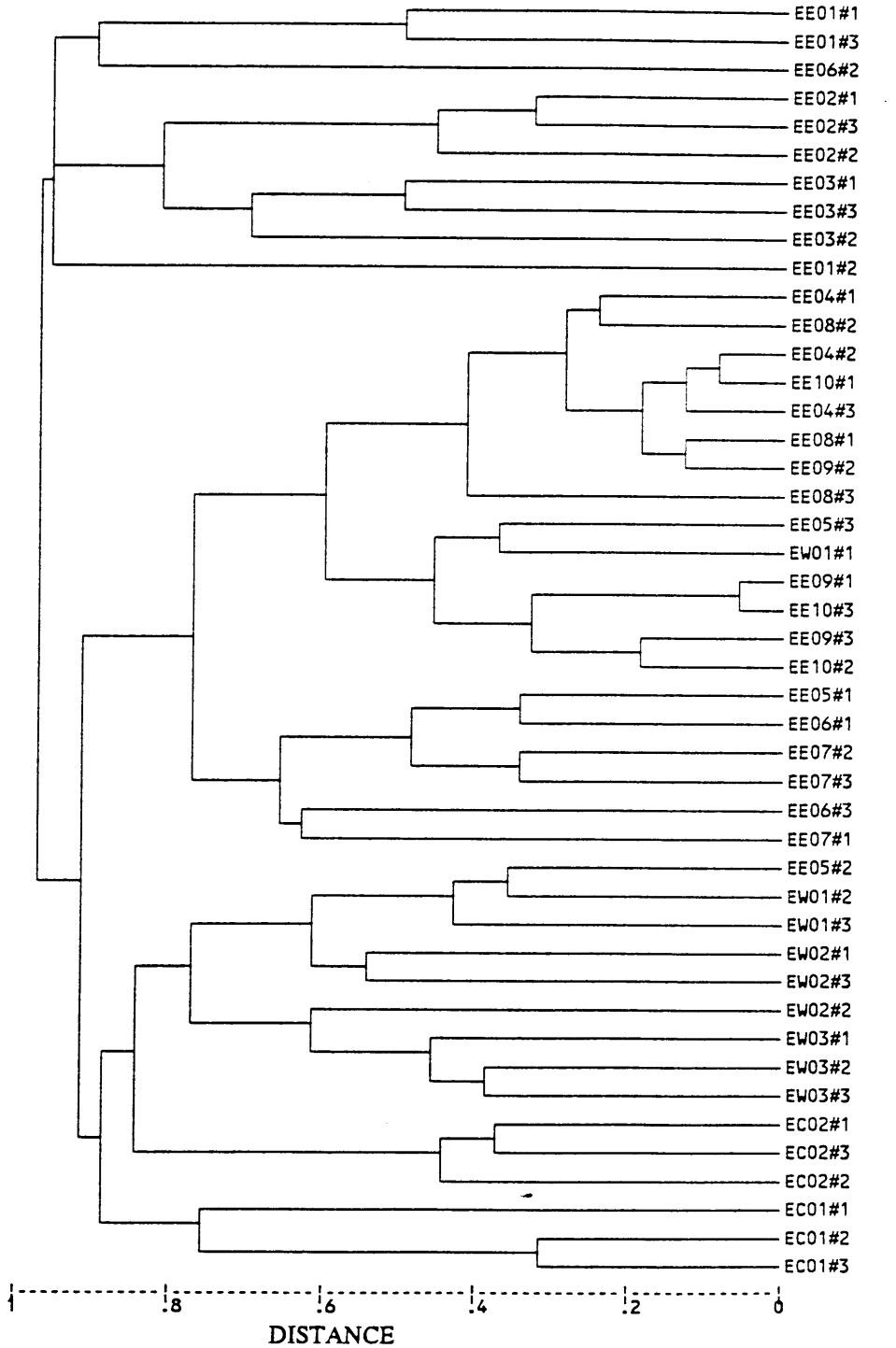
Results from the cluster analysis for the standardized grab samples from all creeks are presented in Figures G-7 and G-8. Only in a few sections, two or three replicates were clustered together among replicates within a section, with the third replicate associated with other sections. This could be due to different sampling and analytical techniques, differences in substratum between the replicates, patchiness in the actual benthic distribution, or other unknown variables. Results from cluster analysis when only oligochaetes and chironomids are used in the dataset produce similar results as in Figures G-7 and G-8. This indicates that the oligochaetes and chironomids are the dominating factors in the cluster groupings. This can be noticed in data Tables G-3 and G-4 having very few individuals from taxa other than oligochaetes and chironomids. The cluster analysis, based on the presence or absence of taxa in the standardized grab samples shows similar patterns of clustering (Figure G-9 and G-10). However; clustering within replicates and also within creeks was more precise. This reflects that each creek is characterized by different major habitat conditions.

The results from the Sigtree analysis of the standardized grab sample data are presented in Figures G-11 and G-12. The Sigtree analysis formed different groupings in October 1994 than in June 1995 among the sections. These results are probably due to dissimilarity among replicates. Forcing dissimilar replicates together for analysis introduces so much variability among the replicates within each site that most of the time the results will indicate dissimilar benthos among sites.

EE01, EE02, and EE03 represent the headwaters of East Soldier Creek. These sections had almost no aquatic vegetation. The benthic sediment samples had only sand and rock with no detrital material. The benthic communities in all three upper sections were very poor (9-13 taxa). Similarly, not more than 49 individuals were found in any of these samples. The field water quality in these sections (Table G-5) was fairly normal according to State of Oklahoma Water Quality Board (personal communication). From these sections oligochaetes were the major taxa. Section EE02 receives discharge from Outfall G. Section EE02 has relatively more taxa, especially the naidid *Dero* species and immature tubificids (most likely *Limnodrilus hoffmeisteri*) oligochaetes. *Dero* species have gills at the posterior end, thereby increasing the potential to remain in waters with low oxygen, and *Limnodrilus hoffmeisteri* are typical of organically enriched habitat. The lack of aquatic vegetation, predominatly rocky substrate, and no detrital material are major factors affecting the composition of benthic communities in uppermost East Soldier Creek (above Bradley Street).

FIGURE G-7

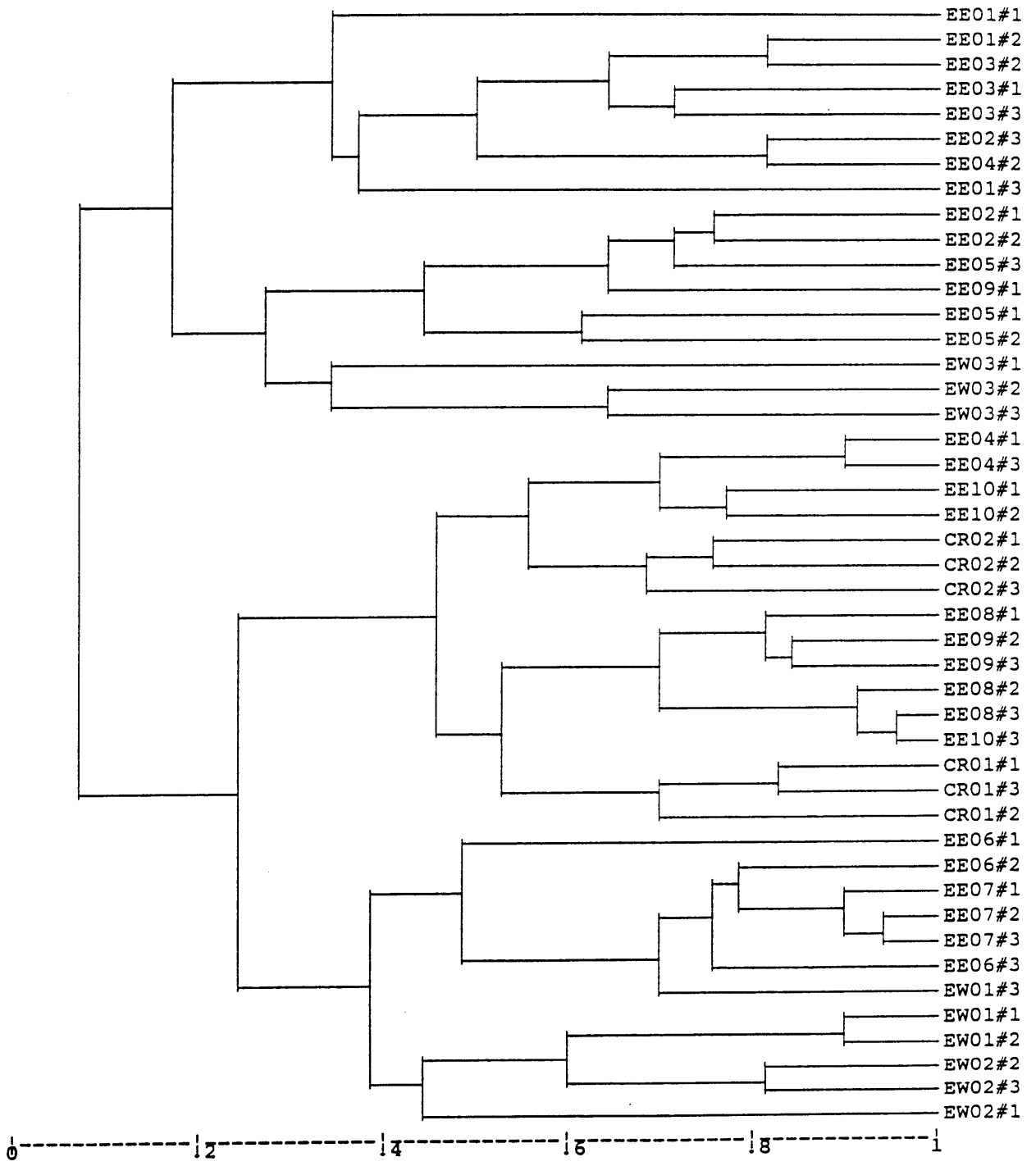
RESULTS FROM CLUSTER ANALYSIS USING STANDARDIZED BENTHIC INVERTEBRATE GRAB SAMPLES, SOLDIER CREEK SEDIMENTAND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994



Codes at right indicate section name and replicate number; e.g., EE01#1 = section 1, replicate 1. EE = East Soldier Creek; EW = West Soldier Creek; and EC = Crooked Oak Creek.

FIGURE G-8

RESULTS FROM CLUSTER ANALYSIS USING STANDARDIZED BENTHIC INVERTEBRATE GRAB SAMPLES, SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

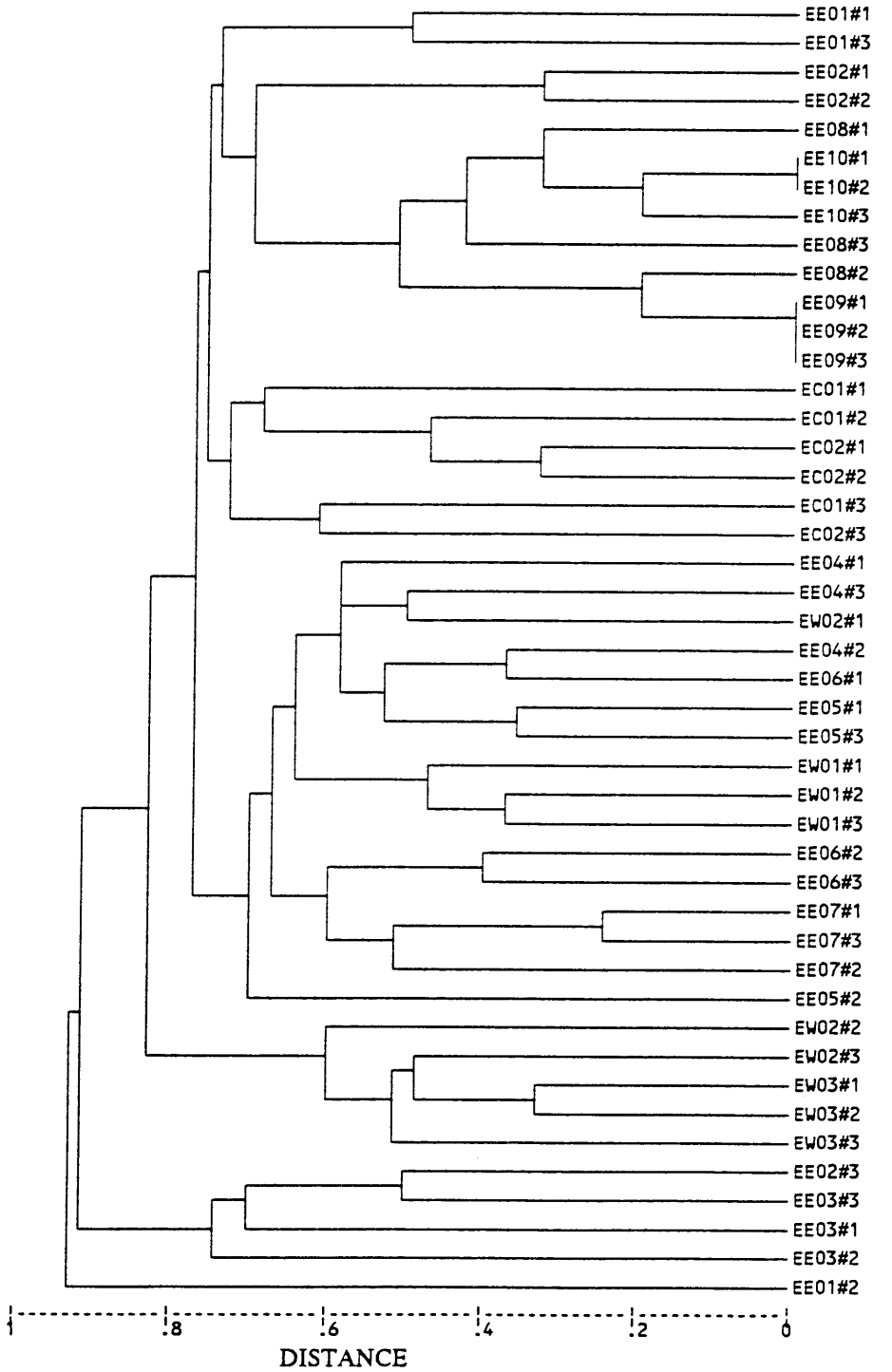


SIMILARITY

Codes at right indicate section name and replicate number; e.g., EE01#1 = section 1, replicate 1. EE = East Soldier Creek; EW = West Soldier Creek; and CR = Crutcho Creek.

FIGURE G-9

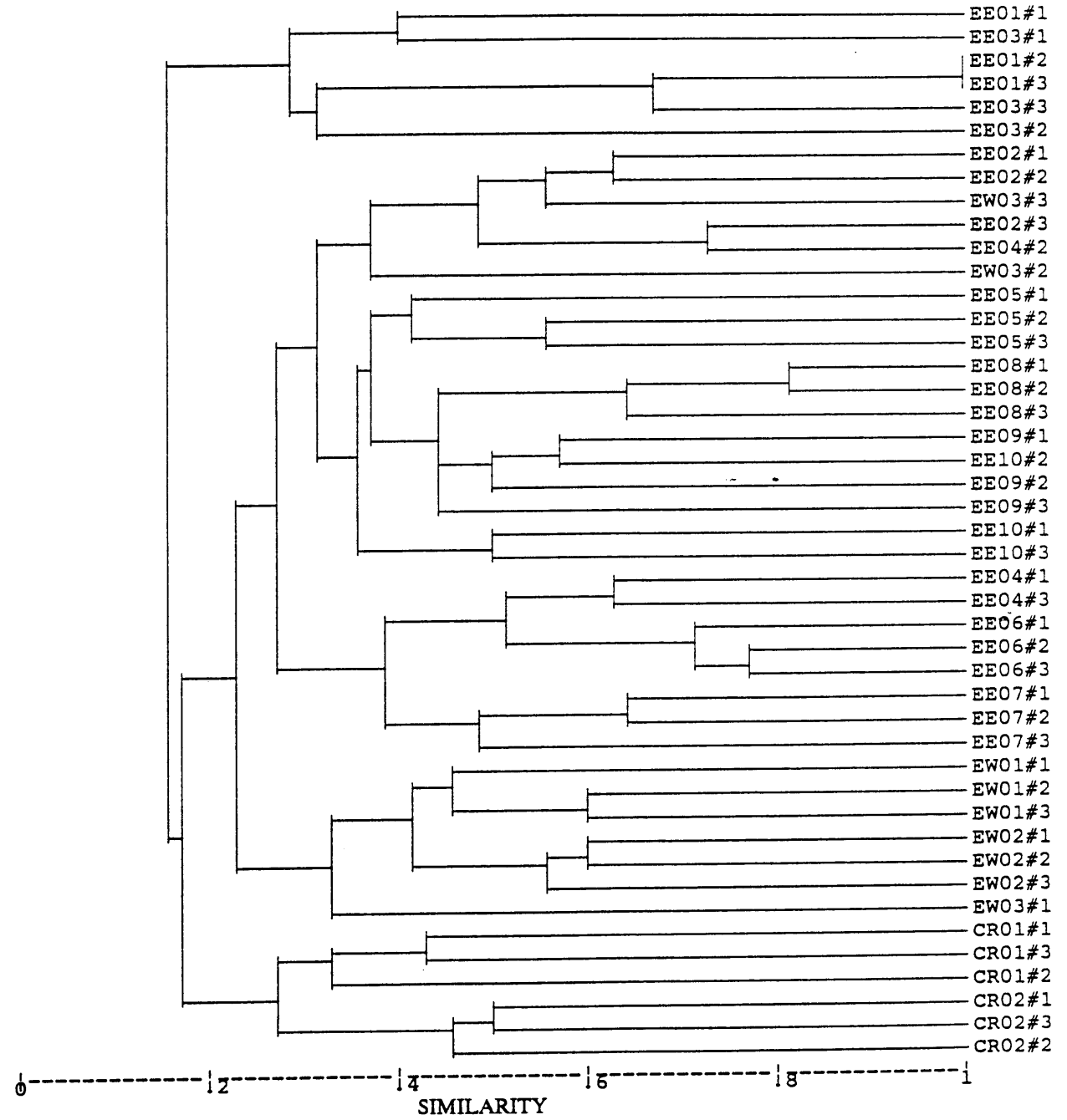
RESULTS FROM CLUSTER ANALYSIS USING STANDARDIZED BENTHIC DATA, (JACCARD PRESENCE/ABSENCEE), SOLDIER CREEK SEDIMENTAND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994



Codes at right indicate section name and replication number; e.g. EE01#1 = section 1, replicate 1. EE = East Soldier Creek; EW = West Soldier Creek; and EC = Crooked oak Creek.

FIGURE G-10

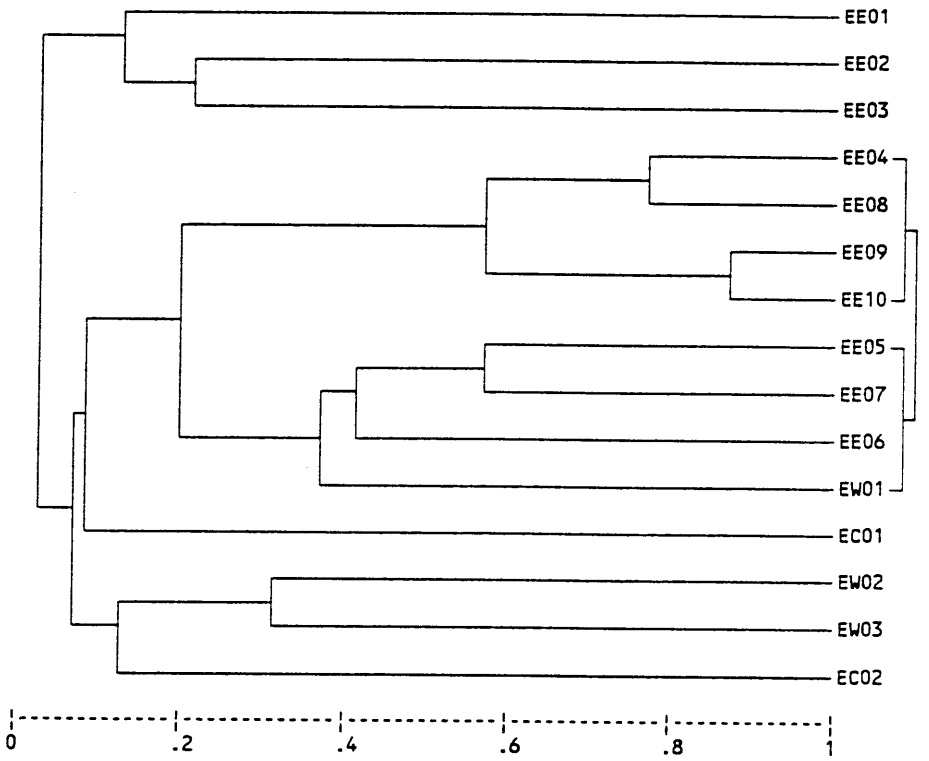
RESULTS FROM CLUSTER ANALYSIS USING STANDARDIZED BENTHIC DATA, (JACCARD PRESENCE/ABSENCE, SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995



Codes at right indicate section name and replicate number; e.g., EE01#1 = section 1, replicate 1. EE = East Soldier Creek; EW = West Soldier Creek; and CR = Crutcho Creek.

FIGURE G-11

RESULTS FROM SIGTREE ANALYSIS USING STANDARDIZED BENTHIC INVERTEBRATE GRAB SAMPLES, SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

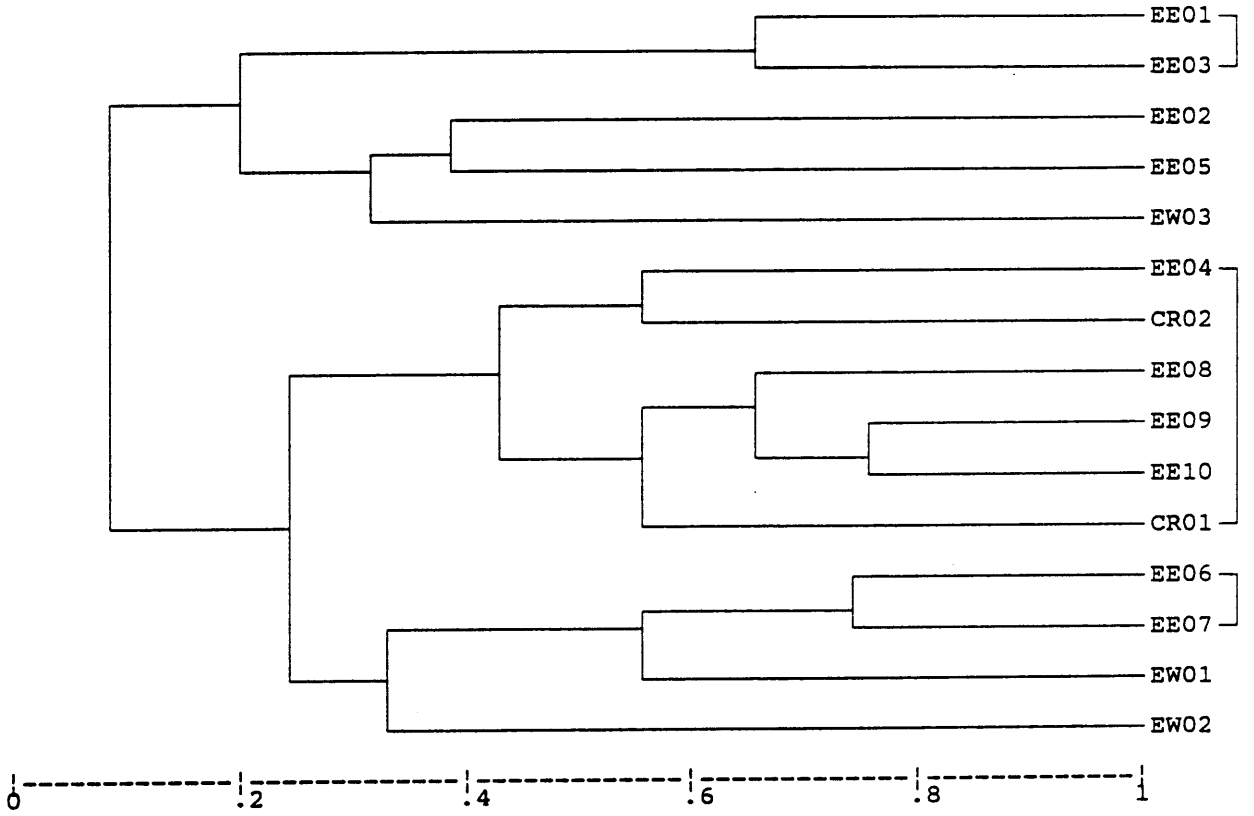


Linkage	Clusters Linked		Similarity	Prob
1	EE09	EE10	.86291	.67800
2	EE04	EE08	.76598	.19800
3	EE05	EE07	.55856	.18400
4	EE04	EE09	.55731	.13000
5	EE05	EE06	.41256	.22600
6	EE05	EW01	.36418	.25400
7	EW02	EW03	.30420	.02800
8	EE02	EE03	.20690	.04200
9	EE04	EE05	.19945	.07800
10	EE01	EE02	.12500	.02400
11	EW02	EC02	.11928	.00800
12	EE04	EC01	.08155	.01000
13	EE04	EW02	.06350	.01400
14	EE01	EE04	.01606	.03400

Lines to right of section numbers indicate sections with similar benthic communities.

FIGURE G-12

RESULTS FROM SIGTREE ANALYSIS USING STANDARDIZED BENTHIC INVERTEBRATE GRAB SAMPLES, SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995



SIMILARITY

Linkage	Clusters	Linked	Similarity	Prob
1	EE09	EE10	.74800	.41400
2	EE06	EE07	.73623	.09200
3	EE08	EE09	.65179	.22800
4	EE01	EE03	.64865	.25200
5	EE06	EW01	.55651	.03200
6	EE08	EC01	.55396	.15000
7	EE04	EC02	.55043	.13200
8	EE04	EE08	.42846	.13000
9	EE02	EE05	.37395	.05800
10	EE06	EW02	.32855	.04200
11	EE02	EW03	.30917	.09600
12	EE04	EE06	.23110	.15000
13	EE01	EE02	.19694	.09200
14	EE01	EE04	.07256	.19400

Lines to right of section numbers indicate sections with similar benthic communities

TABLE G-5

WATER QUALITY PARAMETERS FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994 AND JUNE 1995

Station	Date	Time	Temperature (°C)	Conductivity (umhos/cm)	pH	DO (mg/L)	Discharge (CFS)	Description of Station	General Comments
EW01	10/25/94	1300	12.2	290	7.05	7.4	NA	Samples collected at concrete structure across West Soldier Creek.	No measureable flow.
EW01	6/13/95	1115	19.9	270	6.81	1	0.00	Samples collected at concrete structure across West Soldier Creek	Immeasurable flow
EW02	10/25/94	0930	13	240	7.3	8.2	0.0985	Samples collected from shallow pool above spill containment structure, on off-base West Soldier Creek.	
EW02	6/13/95	820	20.3	650	6.71	7.2	0.07	Samples collected from shallow pool above spill containment structure, on off-base West Soldier Creek.	
EW03	10/25/94	0830	13	260	7.4	8.2	0.156	Samples collected from pool below spill containment structures, on off-base West Soldier Creek.	
EW03	6/13/95	730	20.1	650	6.7	7.1	0.09	Samples collected from pool below spill containment structures, on off-base West Soldier Creek.	
Range (West Soldier Creek)			12.2-20.3	240-650	6.7-7.4	1.0-8.2			
EE01	10/28/94	1305	16	330	7.1	8.4	0.424	Samples collected below first weir structure below outfalls H, I, J, on East Soldier Creek.	
EE01	6/12/95	935	19.6	340	8.79	8.9	0.40	Samples collected below first weir structure below outfalls H, I, J, on East Soldier Creek.	

NA = Not Applicable

TABLE G-5

WATER QUALITY PARAMETERS FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994 AND JUNE 1995

Station	Date	Time	Temperature (°C)	Conductivity (umhos/cm)	pH	DO (mg/L)	Discharge (CFS)	Description of Station	General Comments
EE02	10/27/94	1425	23.9	900	8	6.3	0.261	Samples collected below culvert known as Outfall G, above the uppermost weir, in shallow pool.	
EE02	6/12/95	1125	22.8	460	6.68	6.8	0.16	Samples collected below culvert known as Outfall G, above the uppermost weir, in shallow pool.	
EE03	10/27/94	1140	17.3	410	7.7	7.3	0.87	Samples collected 100 feet downstream of confluence of East Soldier Creek with Outfall G.	
EE03	6/12/95	855	21	600	8.88	7.6	0.88	Samples collected 100 feet downstream of confluence of East Soldier Creek with Outfall G.	
EE04	10/27/94	1000	15.6	400	8.3	7.2	0.4625	Samples collected directly downstream of culverts running under Bradley Drive.	
EE04	6/12/95	700	28.6	340	8.88	8.9	0.88	Samples collected directly downstream of culverts running under Bradely Drive.	
EE05	10/27/94	800	10.3	280	8.2	8.1	0.014	Samples collected below lowermost drop structure on Outfall F before confluence with East Soldier Creek.	
EE05	6/8/95	1600	29.2	320	9.03	11.9	0.06	Samples collected below lowermost drop strucure on Outfall F, before confluence with East Soldier Creek.	
EE06	10/26/94	1355	20	365	6.77	7.5	NA	Samples collected from center of pond.	No flow - characterized as pond.
EE06	6/8/95	1225	25.3	600	8.22	6.7	NA	Samples collected from center of pond.	Pond, no flow

NA = Not Applicable

TABLE G-5

WATER QUALITY PARAMETERS FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994 AND JUNE 1995

Station	Date	Time	Temperature (°C)	Conductivity (umhos/cm)	pH	DO (mg/L)	Discharge (CFS)	Description of Station	General Comments
EE07	10/26/94	1100	13.4	220	7.7	7.2	0.8035	Samples collected downstream of dam, on east side of creek.	
EE07	6/8/95	935	26.2	600	8.5	6.9	1.26	Samples collected downstream of dam, on east side of creek.	
EE08	10/26/94	1025	13.1	1000	7.6	7.5	4.628	Samples collected downstream of IWTP discharge.	
EE08	6/8/95	735	26.1	1000	8.02	6.8	2.59	Samples collected downstream of IWTP discharge.	
EE09	10/26/94	900	13.3	900	7.3	7.3	2.306	Sampling location approximately 100 feet downstream of Douglas Boulevard, off-base East Soldier Creek.	
EE09	6/7/95	1505	27.4	1100	8.01	7.3	2.81	Sampling location approximately 100 feet downsteram of Douglas Boulevard, off-base East Soldier Creek.	
EE10	10/25/94	1455	14.2	850	7.6	7.1	3.4085	Sampling location due west of deadend dirt road, and monitoring well cluster, east of off-base East Soldier Creek.	
EE10	6/7/95	1420	26.9	1100	7.91	5.8	2.75	Sampling location due west of deadend dirt road, and monitoring well cluster, east of off-base East Soldier Creek.	
Range (East Soldier Creek)			13.1-29.2	220-1100	6.68-9.03	5.8-11.9			

NA = Not Applicable

TABLE G-5

WATER QUALITY PARAMETERS FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994 AND JUNE 1995

Station	Date	Time	Temperature (°C)	Conductivity (umhos/cm)	pH	DO (mg/L)	Discharge (CFS)	Description of Station	General Comments
EC01	10/28/94	1000	9.5	600	7.47	7.35	NA	Sampling location on Crooked Oak Creek, 100 feet downstream of storm culvert leading from Joe's Road in Valley Brook, OK.	No measureable flow.
EC02	10/28/94	900	9.7	700	9.1	7.5	NA	Sampling location on Crooked Oak Creek, 50 feet upstream of storm culvert leading from Joe's Road in Valley Brook, OK. Samples collected near 24 inch pipeline which crosses the creek.	No measureable flow.
CR01	6/13/95	1238	22.2	950	6.79	8.3	3.07	Sampling location approximately 100 feet upstream of XXXX Street Bridge on Crutcho Creek.	
CR02	6/12/95	1345	22.3	800	6.67	8.7	3.19	Sampling location approximately 100 feet upstream of Rawlings Street Bridge on Crutcho Creek.	

NA = Not Applicable

Sections EE05, EE06, and EE07 of East Soldier Creek and sections EW01 and EW02 of West Soldier Creek have more emergent vascular aquatic vegetation. The benthic sediment samples had similar proportions of vegetable detritus in each section. Dominant taxa in these sections were *Aulodrilus pigueti; Ilyodrilus templetoni; Limnodrilus cervix; Limnodrilus hoffmeisteri;* Immature tubificid bifids (possibly *Ilyodrilus templetoni* and *Limnodrilus hoffmeistei*); and immature tubificid with hair and pectinate (possibly *Ilyodrilus templetoni*) other oligochaetes and *Cricotopus* and *Tanypus* chironomids. The field water quality in these sections was fairly normal; however, the dissolved oxygen (D.O.) concentration at section EE05 in East Soldier Creek was very high (11.9mg/l) in June 1995 during the benthic sampling period, which could be due to supersaturation or measurement error.

Sections EE04, EE08, EE09, and EE10 of East Soldier Creek have less emergent vascular aquatic vegetation . Sections EE08, EE09, and EE10 had higher conductivity readings (850 - 1100 μmhos/cm), indicating presence of elevated concentrations of dissolved solids. The discharge from the IWTP, which is just upstream from EE08, may be the source of dissolved solids at EE08, EE09, and EE10. Dominant taxa in these sections were *Dero species, Limnodrilus hoffmeisteri*, and immature bifids (possibly *Limnodrilus hoffmeisteri*).

All studied sections of West Soldier Creek had overall higher species richness than other streams. However, only few number of individuals were collected from section EW03 in June 1995 (average 37) than in October 1995. Dominant taxa were Planariidae; Nematoda; *Dero* species; *Limnodrilus hoffmeisteri; Tubifex tubifex*; immature tubificid bifids (possibly *Limnodrilus hoffmeisteri*); and immature tubificids with hair and pectinate (probably *Tubifex tubifex*); *Chironomus; Dicrotendipes, Goeldichironomus, Larsia;* and *Tanypus* chironomids, and *Physella* snails. All of these taxa are relatively tolerant of organic pollution and some are known to be tolerant of inorganic pollution, e.g., metals (USEPA 1990) . The field water quality in these sections was fairly normal according to State of Oklahoma Water Quality Board (personal communication), except the D.O. reading for section EW01 which was very low (1mg/l) in June 1995. This may be due to organic enrichment.

Two sections of Crooked Oak Creek, EC01 and EC02 (October 1994), and two sections of Crutcho Creek, CR01 and CR02 (June 1995), were studied as references for the benthic community comparisons with East and West Soldier Creeks. The reference streams have different species composition than either branch of Soldier Creek. In cluster analysis all three replicates of these two sections formed clusters within the respective sections for both creeks.

The most common taxa were *Pristina* sp, *Limnodrilus hoffmeisteri*, and immature bifid oligochaetes; sphaeriidae (fingernail clams); and *Cricotopus, Cryptochironomus, Stictochironomus* chironomids. The presence of less-tolerant taxa such as Sphaeriidae and Unionidae bivalves; *Polypedilum, Stictochironomus* chironomids; and *Caenis* (mayflies) indicate better water in Crutcho Creek than in East Solder Creek and similar with West Soldier Creek. The field data indicate normal water quality based on personal communication with State of Oklahoma Water Quality Board. However, conductivities in both sections were relatively higher than in West Soldier Creek and the upper sections of East Soldier Creeks, suggesting an upstream source(s) of total dissolved solids in Crutcho Creek.

Results from the qualitative kick net (presence/absence) benthic data are presented in Table G-6 and G-7. These data indicate similar species distribution to those of the standardized grab samples. Qualitative samples added from zero taxa (EE10 in June 1995) to 14 taxa (EE04 in October 1994) to overall species richness.

Summary and Conclusions

In summary, benthic communities in all three creeks show the combined effects of aquatic vegetation, sediment and water quality. The general lack of invertebrates known as "shredders" (invertebrates that chew leaf litter) from all of the sections and generally lower diversity in EE01, EE02, EE03 of East Soldier Creek suggest that there is not enough coarse particulate organic matter (CPOM) to support normal benthic communities. The shredders are often considered as a major constituent of benthic communities in these kinds of habitats (Thorp and Covich 1991). The scarcity of CPOM is partially due to the lack of aquatic vegetation or from regular flushing. Similarly, the prevalence of pollution-tolerant oligochaetes, chironomids, with few gastropods (*Physella*), bivalves, and other benthic macroinvertebrates at all sites indicate poor sediment and/or water quality throughout the study area (including reference stream).

Based on the benthic data, in comparison to accepted criteria for characterization of biological conditions (Bode et.al. 1990, USEPA 1989, 1990), all three streams appear severely impaired. That is, there are few species present. Communities are dominated by relatively high numbers of one or two taxa, (worms and/or midges), and only pollution-tolerant organisms are found in most sections. The data suggest that the reference stream is severely impaired, perhaps more

TABLE G-6

QUALITATIVE KICK-NET BENTHIC MACROINVERTEBRATE DATA FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier										West Soldier			Crooked Oak	
Taxa/Sections	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10	EW01	EW02	EW03	EC01	EC02
Planariidae											2				
Nematoda			3	38	6	5	1	2	2		8		1	5	1
Hirudinea					1										
Oligochaeta															
Dero lodeni	5	11	2	27	1	18	49	1164	742	116	23	6	3		
Dero nevia						3									
Nais variabilis						6									
Pristina leidyi															1
Pristina synclites												1	3	28	21
Aulodrilus pigueti							27								
Ilyodrilus templetoni				18		36	21				1				
Limnodrilus hoffmeisteri						12	15	144	392	14				4	1
Immature bifids	1		1	423	4	84	62	486	1570	36	35	4	2	10	10
Immature with hair & pectinate				351	1	131	109				3				1
Enchytraeidae		2									4	1	2		
Gastropoda															
Physella			1	3		54	8	2	5	13	1	4	3	8	1
Isopoda								1							
Decapoda															
Astacidae															
Orconectes								1							
Ostracoda												4			
Hydracarina														1	
Collembola				2								3			
Hemiptera															

TABLE G-6

QUALITATIVE KICK-NET BENTHIC MACROINVERTEBRATE DATA FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier										West Soldier			Crooked Oak	
Taxa/Sections	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10	EW01	EW02	EW03	EC01	EC02
Notonectidae				1											
Coleoptera															
Curculionidae				1											
Dytiscidae		1		1		1								1	
Hydrophilidae				2											2
Odonata															
Archilestes	1			5											
Argia		1					1	1		1			21	1	
Argiallagma				99	8										
Coenagrion								3	3	3		13	4		1
Enallagma						17	6				1				
Lestes	1		1												
Ashmidae											1	1			
Gomphus										1					
Erythemis														1	
Orthomis				1											
Sympetrum				3	1			1			1				
Un ID Libellulidae		1										2	1		
Ephemeroptera															
Baetis												70	33		
Caenis														3	
Lepidoptera													2		
Ceratopogonidae				3		1	1		14						
Chironomidae Larvae															
Ablabesmyia							3					5	4	1	1

TABLE G-6

QUALITATIVE KICK-NET BENTHIC MACROINVERTEBRATE DATA FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, OCTOBER 1994

	East Soldier										West Soldier			Crooked Oak	
Taxa/Sections	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10	EW01	EW02	EW03	EC01	EC02
Chironomus					5			3		12	232	10	7		
Cricotopus				4			1						38		1
Dicrotendips												193	16		
Endochironomus												20	4		
Eukiefferiella											6				
Goeldichironomus					3						66			1	1
Fittkauimyia	4			3			1					5			
Larsia												5	2	1	
Nanocladius					1										
Polypedilum				5	4	1		12		133			12		1
Procladius				1											
Tanypus				28				1	2						
Chironomidae pupae							2	5		31	4	17	7		
Other Diptera															
Culicidae					1										
Dolichopodidae													1		
Empididae													1		
Ephydridae													1		
Tabanidae										1			4		
Other Misc.		1												1	
Total number of individuals	12	17	8	1019	36	369	307	1826	2730	361	388	364	172	66	43
Total number of taxa	5	6	5	21	12	13	15	14	8	11	15	18	23	14	13

TABLE G-7

QUALITATIVE KICK-NET BENTHIC MACROINVERTEBRATE DATA FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	East Soldier										West Soldier			Crutcho Creek	
Taxa/Sections	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10	EW01	EW02	EW03	CR01	CR02
Planariidae		X	X	X								X			
Nematoda			X	X		X		X	X		X	X		X	X
Oligochaeta															
Dero digitata	X	X			X	X			X						
Dero lodeni		X					X	X	X			X	X		
Dero obtusa		X													
Dero sp		X			X			X	X			X	X		
Nais variabilis												X			
Pristina sp												X			
Pristinella														X	X
Aulodrilus pigueti						X	X								
Ilyodrilus templetoni				X	X	X	X		X						
Limnodrilus cervix				X		X									
Limnodrilus hoffmeisteri	X		X	X	X	X	X		X	X	X	X		X	
Tubifex tubifex											X	X			
Immature bifids	X	X	X	X	X	X	X	X	X	X	X	X		X	X
Immature with hair & pectinate	X			X	X	X	X	X			X	X		X	X
Enchytraeidae	X	X	X				X							X	
Megadrili (Large semiaquatic worms)		X										X	X		
Gastropoda															
Physella					X		X	X	X	X		X			X
Pelecypoda															
Sphaeriidae														X	X
Ostracoda												X			
Collembola		X	X	X											

TABLE G-7

QUALITATIVE KICK-NET BENTHIC MACROINVERTEBRATE DATA FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

Taxa/Sections	East Soldier										West Soldier			Crutcho Creek	
	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10	EW01	EW02	EW03	CR01	CR02
Coleoptera															
Dytiscidae															
Copelatus											X				
Odonata															
Archilestes			X												
Argiallagma									X				X		
Enallagma					X										
Lestes												X			
Ephemeroptera															
Baetis												X			
Ceratopogonidae				X		X	X								
Chironomidae Larvae															
Chironomus											X	X			
Conchapelopia														X	
Cricotopus	X			X			X	X		X				X	X
Cryptochironomus														X	X
Larsia											X	X	X	X	
Polypedilum														X	X
Procladius												X			
Pseudosmittia (semiaquatic)												X			
Stictochironomus													X	X	X
Tanypus						X		X	X			X			
Thienemanniella														X	
Chironomidae pupae			X	X	X	X	X	X			X	X		X	X
Other Diptera															

TABLE G-7

QUALITATIVE KICK-NET BENTHIC MACROINVERTEBRATE DATA FROM SOLDIER CREEK AND SURFACE WATER OPERABLE UNIT AND REFERENCE STREAM, JUNE 1995

	East Soldier										West Soldier			Crutcho Creek	
Taxa/Sections	EE01	EE02	EE03	EE04	EE05	EE06	EE07	EE08	EE09	EE10	EW01	EW02	EW03	CR01	CR02
Culicidae		X													
Stratiomyidae		X									X				
Tipulidae														X	
Other Misc.												X			
Total number of taxa	6	11	8	11	9	11	11	9	10	4	10	22	6	16	11

so than West Soldier Creek but less so than East Soldier Creek. The species composition of Crutcho Creek was better than that of Crooked Oak Creek. However, an unimpaired reference stream expected within the ecoregion should have a balanced trophic structure and optimum community composition and dominance for the size and habitat quality studied. The trophic or community structure in neither reference stream was "balanced" in the context of classical ecological theory.

The above findings are confirmed by the field sampling and other observations which indicated fish are few in number or absent and that those present are generally pollution-tolerant (USEPA 1989, 1990). As discussed elsewhere, the water quality data and in particular sediment quality data indicate high metals concentrations which may explain the scarcity of intolerant benthic species. In addition, East Soldier Creek is effluent-dominated, while West Soldier Creek apparently does not continuously flow. These factors in addition to metals are probably affecting biodiversity.

Literature Cited

Bode, R.W., Novak, M.A., and Abele, L.E. 1990. Biological impairment criteria for flowing waters in New York State. New York State Department of Environmental Conservation. Albany, NY. 110p.

Brinkhurst, R.O. 1986. Guide to the freshwater aquatic microdrile oligochaetes of North America. Can. Spec. Publ. Fish. Aquat. Sci. 84:259p.

Cushman, R.M. 1984. Chironomid deformities as indicators of pollution from a synthetic coal-derived oil. Freshw. Biol. 14:179-182.

Merritt, R.W. and Cummins, K.W. (eds.). 1984. An introduction to the aquatic insects of North America (Second edition). Kendall/Hunt Publ. Co., Dubuque, IA. 722p

Nemec. A.F.L. 1991a. Cluster, an agglomerative, hierachical cluster analysis program. Version 1.5. International Statistics and Research Corp., Brentwood Bay, B.C.

Nemec. A.F.L. 1991b. Sigtree. Version 3.4. International Statistics and Research Corp., Brentwood Bay, B.C.

Pennak, R.W. 1989. Freshwater invertebrates of the United States (3rd ed.) John Wiley & Sons, New York. 628p.

Thorp, J.H. and Covich, A.P. 1991. Ecology and classification of North American freshwater invertebrates. Academic Press, New York. 911p.

U.S. Environmental Protection Agency (EPA). 1989. Rapid bioassessment protocols for use in streams and rivers. Benthic macroinvertebrates and fish. EPA/444/4-89/001, U.S.EPA, Washington, D.C.

U.S. Environmental Protection Agency (EPA). 1990. Macroinvertebrate field and laboratory methods for evaluating the biological integrity of surface waters. EPA/600/4-90/030, U.S. EPA, Cincinnati, Ohio. 256p.

Warwick, W.F. 1988. Morphological deformities in Chironomidae (Diptera) larvae as biological indicators of toxic stress. Pp. 281-320 in M.S. Evans, ed. Toxic contaminants and ecosystem health; a Great Lakes Focus. Wiley Interscience, New York.

Warwick, W.F. and Tisdale, N.A. 1988. Morphological deformities in *Chironomus*, *Cryptochironomus*, and *Procladius* larvae (Diptera: Chironomidae) from two differentially stressed sites in Tobin Lake, Saskatchewan. Can. J. Fish. Aquat. Sci. 45:1123-1144.

APPENDIX G.4

FISH AND CRAYFISH POPULATIONS

Introduction

Table G-8 presents the results of fish sampling. Although all designated study sections except EW01 (which had insufficient water) were subjected to electrofishing as described in SOP-E4 (Appendix A), very few fish were seen or captured in either the Soldier Creek Sediment and Surface Water Operable Unit or the references streams.

Fish

During the October study one adult green sunfish (*Lepomis cyanellus*) was taken from the ponded area of East Soldier Creek (EE06). After two electrofishing passes, the block-net used to cordon off a large portion of the pond was dragged through the area in hopes of collecting additional specimens. None were taken. During the June 1994 reconnaissance, a 1-inch (bar) mesh monofilament gillnet was set across (bank to bank) this same area of the pond and allowed to "fish" overnight. No fish were caught. According to Tinker personnel, fish have been seen historically in the ponded area. During the June 1995 EA activities the entire pond was electrofished twice with no fish observed.

Six juvenile and adult green sunfish, and one juvenile bluegill (*Lepomis macrochirus*), were collected during the June 1994 study period from the section immediately below (north of) the ponded area of East Soldier Creek (EE07). Two adult green sunfish were collected from this area during the June 1995 session. During the June 1994 reconnaissance, several juvenile and adult green sunfish were seined from this section.

Although the off-base portion of East Soldier Creek (EE09 and EE10) superficially appears more likely to harbor fishes, none was observed or taken with the backpack shocker during the October 1994 or the June 1995 study sessions. During June 1994, a fine-mesh seine was used extensively in EE10 with no success.

In a pool immediately above the spill gate in West Soldier Creek (EW02) 39 green sunfish (mainly adults) were collected during the 1994 field study. Four green sunfish were taken from a pool below the spill gate (EE03). During the January 1995 quarterly sampling event, it was noticed that during a period of high water the spill gate had been closed and water flowed over

TABLE G-8

RESULTS OF ELECTROFISHING IN SOLDIER CREEK SEDIMENT AND SURFACE WATER OPERABLE UNIT, OKLAHOMA, OCTOBER 1994 AND JUNE 1995

EE06 Species	First Pass		Second Pass	
	Number	Size Range (cm)	Number	Size Range (cm)
Green sunfish	1	11.3	0	N/A

EE07 Species	First Pass		Second Pass	
	Number	Size Range (cm)	Number	Size Range (cm)
Green sunfish	1	11.0	5	6.0-12.4
Bluegill	1	N\A	1	6.5
Green sunfish	2	12.8-14.4	0	N\A

EW02 Species	First Pass		Second Pass	
	Number	Size Range (cm)	Number	Size Range (cm)
Green sunfish	27	5.7-13.0	12	5.6-13.1
Golden shiner	1	9.8	0	N\A

EW03 Species	First Pass		Second Pass	
	Number	Size Range (cm)	Number	Size Range (cm)
Green sunfish	3	5.6-7.7	1	5.9

Shaded areas are from 1995 field effort

the spill gate and washed large sections of the bank away immediately below the gate. It is unknown if this event had any affect on the lack of fish collected during the 1995 sampling event, but only one fish was collected from this region in June of 1995. One golden shiner (*Notemigonus crysoleucas*) was collected from EE02 with two small fish believed to be green sunfish escaped dipnetting.

In the uppermost study section of Crooked Oak Creek (EC01), six adult fathead minnows (*Pimephales promelas*) and one adult green sunfish were taken by electrofishing in October. No fish were observed or caught in EC02. During the June 1994 reconnaissance, seining in a portion of Crooked Oak Creek slightly upstream from EC01 produced no fish.

During the June 1995 sampling event problems were experenced with the electrofishing unit when used in Crutcho Creek. High conductivity, or other unknown factors, caused the unit to short out each time it was used. Modifications were made by restricting the areas of conductance on the anode and cathode by wrapping with insulating tape. While this solved the problem of short circuiting the unit, the overall effectiveness for collecting fish is believed to have been diminished. During electrofishing of this area two green sunfish were collected. During night time crayfish collection several different species of fish were seen. It was decided that a night time dipnet collection of fish would be attemped to determine species present. While several fish were missed and the results can not be compared to the depletion studies done on the other areas the information obtained is important and interesting when compared to the sections of Soldier Creek. Fish collected included two each green sunfish and yellow bullheads (*Ameiurus natalis*), one longear sunfish (*Lepomis megalotis*), thirteen redfin shiners (*Lythrurus umbraticis*) and 16 silvery minnows (*Hybognathus nuchalis*) .

The scarcity and low diversity of fishes in East and West Soldier Creeks and Crooked Oak Creek is probably attributable to a variety of factors in addition to chemical contaminants, including those mentioned in connection with the benthic invertebrates (Appendix G.3). For the fishes, numerous physical barriers (e.g., dams, weirs, "drop-structures") probably play a major role in limiting colonization from downstream.

Crayfish

Crayfish (*Orconectes* sp.; believed to be *O. virilis*) had been identified as a species for whole-body analyses of COECs, based on the apparent abundance and extensive occurrence observed

during June. In October, crayfish were very sparse. Relatively fresh burrows along the banks of the streams indicated that many of the animals had "dug in" for the winter (Hobbs 1972). Efforts were made throughout the three consecutive weeks of quarterly monitoring and ecological sampling to find and collect crayfish. Various methods were tried (e.g., seining, dipnetting, funnel traps, and electrofishing). These efforts yielded a total of only five samples: a composite of 8 small individuals from EE07; a single adult specimen from EE08; a single juvenile from EE09; and one specimen from each of the study sections of Crooked Oak Creek. Several hundreds of specimens of *Orconectes* were taken in one short seine haul in Crooked Oak Creek in June 1994, and numerous individuals were caught or seen in various portions of East and West Soldier Creeks during this same time period (especially EE06, EE07, EE09, EW02, and EW03). During the June 1995 field session clayfish were very common in all study areas and were collected by the same methods as earlier. The most effective means was determined to be dipnetting at night. Complete samples from most study areas could be collected in 2-3 hours of work.

APPENDIX G.5
TERRESTRIAL/SMIAQUATIC VERTEBRATES ("WILDLIFE")

Introduction

Each study section or group of adjacent sections on and off-base varies substantially in vegetation, topography, and land-use, creating five major habitat types from the perspective of terrestrial and semiaquatic vertebrates ("wildlife"). These macrohabitats include landscaped lawns, forests, old growth fields, floodplains, and highly-disturbed areas. All are in a general urbanized setting, which should be expected to suppress the overall diversity and (especially) densities of wildlife. Because of the sharp contrasts among some of the macrohabitats, however, there was marked variation in the observed composition of terrestrial vertebrate communities. Some species tended to be limited to certain macrohabitat types, while others (especially birds and mammals) were more wide-ranging, at least on a local scale.

Table G-9 summarizes the results of the formal "flush counts" described in SOP-E5 (Appendix A) and Subsection 3.1, which produced direct or indirect evidence of the occurrence of five species of amphibians, eight species of reptiles, 40 species of birds, and 15 species of mammals. Some species or their "sign" were observed outside the context of the formal flush counts. There are undoubtedly representatives of additional species, both transient and resident, that occur in most of the areas. Birds in particular include many species that move locally in relation to seasonal variation in availability of forage and cover, as well as many which have well-documented regional or even transcontinental migrations. Amphibians, reptiles, and mammals are generally very cryptic animals. Many representatives of these groups (especially the amphibians and reptiles) are much less conspicuous during late autumn, winter, and early spring at the latitude of Tinker, due to the fact that they remain in dens, burrows, or other hiding places.

Upper East Soldier Creek (EE01, EE02, EE03)

This riparian zone provides several different types of habitat for bird species, from canopy to heavy brush. Few species were seen in the area in October and this is probably due at leastin part to the time of year and/or day observations were made. The main use for the area may be nesting and roosting which are activities that did not coincide with these field activities. Species that were seen in October were bluejay (*Cyanocitta cristata*), Carolina chickadee (*Parus*

TABLE G-9

SUMMARY OF OCCURRENCE OF TERRESTRIAL AND SEMIAQUATIC VERTEBRATES

Species	Stream Section of Group of Section With Similar Habitat											
	EE01-EE03		EE04-EE08		EE09-EE10		EWO1		EW02-EWO3		Reference Streams	
	1994	1995	1994	1995	1994	1995	1994	1995			1994	1995
AMPHIBIANS												
Bufo sp. (toad, tadpoles only)								P/P		>20		P
Acris crepitans (cricket frog)				P/P			P	P				
Rana catesbeiana (bullfrog)				1/1								1/0
Rana areolata (crawfish frog)				P								
Rana pipiens (leopard frog)			2/0		1/0							
REPTILES												
Chelydra serpentina (snapping turtle)		P	0/1	1/2	P	P						
Chrysemys scripta (red-eared turtle)		P	5/9	12/10		P						P
Deirochelys reticularia (chicken turtle)			P									
Terrapene carolina (box turtle)						1/0						
Trionyx spinifer (spiny softshell turtle)				1/3								0/1

P = Species present, Number unknown

#/# = # counted during first transect/ # counted during second transect

TABLE G-9

SUMMARY OF OCCURRENCE OF TERRESTRIAL AND SEMIAQUATIC VERTEBRATES

Species	Stream Section of Group of Section With Similar Habitat											
	EE01-EE03		EE04-EE08		EE09-EE10		EWO1		EW02-EWO3		Reference Streams	
	1994	1995	1994	1995	1994	1995	1994	1995			1994	1995
Storeria dekayi (brown snake)							1/0					
Nerodia erythrogaster (blotched water snake)											P	
Nerodia sipedon (northern water snake)			P		P							
BIRDS												
Fulica americana (American coot)			P									
Casmerodius albus (great egret)				P								P
Egretta thula (snowy egret)												0/1
Nyctanassa violacea (yellow-crowned night heron)				1/0								
Butorides virescens (green heron)			P									
Charadrius vociferus (killdeer)		0/1		1/0			12/0	1/1				
Ictinia mississippiensis (Mississippi kite)												P
Buteo jamaicensis (red-tailed hawk)		p			P		0/1				1/0	

P = Species present, Number unknown

#/# = # counted during first transect/ # counted during second transect

TABLE G-9

SUMMARY OF OCCURRENCE OF TERRESTRIAL AND SEMIAQUATIC VERTEBRATES

Species	Stream Section of Group of Section With Similar Habitat											
	EE01-EE03		EE04-EE08		EE09-EE10		EWO1		EW02-EWO3		Reference Streams	
	1994	1995	1994	1995	1994	1995	1994	1995			1994	1995
Columba livia (rock dove)								5/8	P			
Zenaida macroura (mourning dove)	P						4/9					2/5
Chordeiles minor (nighthawk)												P
Colaptes auratus (common flicker)												1/0
Megaceryle alcyon (belted kingfisher)												0/1
Melanerpes carolinus (red-bellied woodpecker)					P							P
Picoides pubescens (downy woodpecker)					1/2							
Muscivora forficata (scissor-tailed flycatcher)		2/1		1/2						2/1		
Tyrannus tyrannus (eastern kingbird)		1/1		P							1/1	
Contopus virens (eastern pewee)		0/1			1/0							
Riparia riparia (bank swallow)		1/1		3/1				0/6				
Corvus brachrhynchos (American crow)	3/0	8/3	1/0		4/2	4/11	0/1		P			1/3
Cyanocitta cristata (bluejay)	3/0	0/1	1/0			1/0			3/0	0/1	12/6	

P=Species present, Number unknown

#/#= # counted during first transect/ # counted during second transect

TABLE G-9

SUMMARY OF OCCURRENCE OF TERRESTRIAL AND SEMIAQUATIC VERTEBRATES

Species	Stream Section of Group of Section With Similar Habitat											
	EE01-EE03		EE04-EE08		EE09-EE10		EWO1		EW02-EWO3		Reference Streams	
	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
Parus carolinensis (Carolina chickadee)	4/0	1/0			3/2							2/1
Parus bicolor (tufted titmouse)		1/0			0/1							
Thryothorus ludovicianus (Carolina wren)			1/0								P	
Regulus satrapa (golden-crowned kinglet)											1/0	
Toxostoma rufum (brown thrasher)		1/0										1/0
Mimus polyglottos (northern mockingbird)		1/0									4/2	
Myadestes townsendi (Townsend's solitaire)											1/0	
Turdus migratorius (American robin)		0/1	1/0									3/4
Agelaius phoeniceus (red-winged blackbird)			34/28	12/10	P		14/6	66/70				
Molothrus ater (brown-headed cowbird)			1/0								P	
Quiscalus quiscula (common grackle)		2/0		2/0		3/7				3/2		1/4
Quiscalus major (boat-tailed grackle)				8/0								

P = Species present, Number unknown

#/# = # counted during first transect/ # counted during second transect

TABLE G-9

SUMMARY OF OCCURRENCE OF TERRESTRIAL AND SEMIAQUATIC VERTEBRATES

Species	Stream Section of Group of Section With Similar Habitat											
	EE01-EE03		EE04-EE08		EE09-EE10		EWO1		EW02-EWO3		Reference Streams	
	1994	1995	1994	1995	1994	1995	1994	1995			1994	1995
Dolichonyx oryzivorus (bobolink)	1/0											
Sturnella magma (eastern meadowlark)							6/0				P	
Sturnus vulgaris (European starling)		7/0		11/30	P		18/0			0/3		
Cardinalis cardinalis (cardinal)	1/0	1/1			3/2	1/1					1/3	4/6
Pipilio erythrophthalmus (rufous-sided towhee)			1/0			0/1					1/1	0/1
Melospiza georgiana (swamp sparrow)			26/12				6/1					
Ammodramus savannarum (grasshopper sparrow)						6/0			2/0		10/5	
MAMMALS												
Didelphis virginiana (Virginia opossum)											P	
Marmota monax (woodchuck)						0/1						
Sciurus carolinensis (gray squirrel)	1/P	0/1			P/P				1/P	0/P		
Sciurus niger (eastern fox squirrel)												1/1
Geomys bursarius (plains pocket gopher)	7/P						0/P		P/P			

P = Species present, Number unknown
#/# = # counted during first transect/ # counted during second transect

TABLE G-9

SUMMARY OF OCCURRENCE OF TERRESTRIAL AND SEMIAQUATIC VERTEBRATES

Species	Stream Section of Group of Section With Similar Habitat											
	EE01-EE03		EE04-EE08		EE09-EE10		EWO1		EW02-EWO3		Reference Streams	
	1994	1995	1994	1995	1994	1995	1994	1995			1994	1995
Peromyscus maniculatus (deer mouse)							1/0					
Sigmodon hispidus (hispid cotton rat)							3/1	1/0				
Microtus ochrogaster (prairie vole)							5/3					
Ondatra zibethicus (muskrat)		1/2		1/2		1/0		P/P			P	
Castor canadensis (beaver)		P/P	P	P	P/P	P/P						P/P
Lepus californicus (blacktail jackrabbit)								1/0				
Sylvilagus floridanus (eastern cottontail)		2/5		4/0	1/2		3/4	P/1			P/P	
Procyon lotor (raccoon)					P/P	P/P			P	0/P	P/P	P/P
Canis latrans (coyote)									P	P		
Odocoileus virginianus (whitetail deer)					P/P	P/2						

P = Species present, Number unknown
#/# = # counted during first transect/ # counted during second transect

carolinensis), cardinal (*Cardinalis cardinalis*), and crow (*Corvus brachyrhynchos*). An interesting observation was made of a bobolink (*Dolichonyx oryzivorus*), a species that summers in the northern states and Canada and winters in South America. This individual must have been in the process of migrating which would fit the pattern of stopovers in marshes and wetland (Terres 1991). Winter species added during January 1995 quarterly monitoring activities included red-tailed hawk (*Buteo jamaicensis*), and titmouse (*Parus bicolor*). The June 1995 field effort added considerable numbers of species to the list. Crows, scissor-tailed flycatchers, kingbirds, starlings, blackbirds, titmouse, brown thrasher, mocking bird, cardinal, and chick-a-dees were species recorded during the summer field effort.

The heavy riparian growth in this area provides habitat for a small population of gray squirrels (*Sciurus carolinensis*). Evidence, in the form of droppings, of cottontail rabbits (*Sylvilagus floridanus*) was found in the fall while sightings were made in the winter when the understory vegetation was thinner. The rabbits were seen feeding in the adjacent open landscaped areas and using the heavy growth for cover during the June 1995 field session. In the upper regions of EE01 on the west side is a small picnic area for base employees, with grass cover and several blackjack oak (*Quercus marilandica*) trees. Mounds from plains pocket gopher (*Geomys bursarius*) activity were prevalent in this area. During fish sampling in the fall and several times during the summer session muskrats (*Ondatra zibethicus*) was seen in the swifter areas. No evidence of beaver (*Castor canadensis*) activity was seen during the October field effort, while downed trees, stripped limbs, and other activity was frequently noted along Outfall G (EE02) during the quarterly monitoring in January.

No amphibians or reptiles were observed along uppermost East Soldier Creek during the formal surveys in October. During the June 1995 survey several red-eared sliders and snapping turtles were found during nighttime crayfish collection. These were large adult turtles that are likely moving upstream from the pond to feed.

Ponded Area (EE04, EE05, EE06)

Several turtles were seen on sunny days on the few logs in the pond and on the banks. Red-eared sliders (*Chrysemys scripta elegans*) were the most common, with 4-5 individuals per log at times. During June 1995, 20+ red-eared sliders could be seen at one time. In addition, two chicken turtles (*Deirochelys reticularia*) were seen at one time, and several snapping turtles (*Chelydra serpentina*) were observed in October and June field events. All turtles were very

wary and dove into the water at the first sign of movement. During the crayfish collections on the pond, several turtles were seen in the shallow waters along the bank and could be approched and caught with ease. Cricket frogs (*Acris crepitans blanchardi*) were observed during the first flush count (several were also observed in June). During both flush counts, several medium-sized frogs leaped into the water before they could be identified. Any species of this size will be in the genus *Rana* which includes several species; those seen are most likely to have been bullfrogs (*Rana catesbaeiana*) and/or leopard frogs (*R. pipiens*). Both species were recorded by calls during June 1995. During the crayfish collection, a frog was netted and identified as a crayfish frog (*Rana areolata*).

Large populations of red-winged blackbirds (*Agelaius phoeniceus*), cowbirds (*Molothrus ater*), swamp sparrows (*Melospiza georgiana*), and several unidentified passerine species frequent if not live in the cattails in the upper end (EE04). Active nests of the red-winged blackbird were observed among the cattails during the June 1994 reconnaissance and the June 1995 field effort. Rufous-sided towhees (*Pipilo erythrophthalmus*) and Carolina wrens (*Thryothorus ludovicianus*) were common in the vegetation and along the water. One coot (*Fulica americana*) was seen on the pond, while bluejays and crows were often seen and heard in the trees. The pond was an area where sightings of red-tailed hawks were common during the January 1995 field effort. A green heron (*Butorides virescens*) was seen during the June 1994 reconnaissance and another recorded during the June 1995 field effort. A great egret (*Casmerodius albus*) was observed using the pond in June 1995. A yellow-crowned night heron (*Nyctanassa violacea*) was observed hunting along the pond and in the oil/water separator. The only mammals seen were feral and tame house cats that were common to the area, muskrats that were active during twilight hours and some beaver evidence during the June 1995 field effort.

Below Ponded Area (EE07 and EE08)

A northern water snake (*Nerodia sipedon*), in very poor physical condition, was captured on the bank immediately below the dam. Several cricket frogs were seen on the banks of the creek. Birds seen along these study sections were primarily species that frequent reeds and heavy vegetation along streams. Red-winged blackbirds, crows, cowbirds, and various passerines (including swamp sparrow) were seen along the stream. Muskrats were the only mammals seen along this section. Several cottonwood trees along the bank had areas of beaver cutting, but these were old and weathered. A dead beaver was found in the oil/water separator during the winter field effort of January 1995. However, due to the close proximity to the pond, any

species found in the pond could be expected to be found in these study areas also.

Off-base East Soldier Creek (EE09 and EE10)

During the preliminary reconnaissance trip in the summer of 1994, a northern water snake was caught and released in EE10. Several bird species were seen along the banks of the stream and in wooded areas along each bank. Species seen while working in the area are chickadee, bluejay, red-bellied woodpecker (*Melanerpes carolinus*), downy woodpecker (*Picoides pubescens*), and various passerines. A red-tailed hawk was observed being harassed by a crow during the winter observations. This area is home to white-tailed deer (*Odocoileus virginianus*), beaver, cottontail rabbits, gray squirrel, and raccoons (*Procyon lotor*). Deer sign was largely confined to EE10. Beaver were extremely active in the stream and along the banks. Cut trees, tracks, bank burrows and stripped branches were common sign along sections EE09 and EE10.

Upper West Soldier Creek (EW01)

Upper West Soldier Creek provides cover and food for a variety of grassland, or prairie, wildlife. One snake was seen along the banks, caught, and identified as a Dekay's brown snake (*Storeria dekayi*). No other reptiles or amphibians were seen. Several bird species were seen in large numbers in the trees and cattails in the creek as well as along the bank. Red-winged blackbirds and swamp sparrows were common in the cattails, while rockdove (*Columba livia*), mourning dove (*Zenaida marcroura*), killdeer (*Charadrius vociferus*), and meadowlarks (*Sturnella magna*) were often found on the ground along the banks. Crows and European starlings (*Sturnus vulgaris*) were commonly seen in the area. Sightings of a red-tailed hawk (*Buteo jamaicensis*) occurred on every visit to EW01 except during January and June 1995. The October sightings probably involved the same individual which had found good hunting due to the number of rabbits and rodents along the creek. Small mammal species were very common in the tall grass/cattails along the stream. Trails, grass nests, and burrows were found on the west bank (the east bank having been recently disturbed by monitoring-well and other activities). Sightings of prairie vole (*Microtus ochrogaster*), cottontail rabbit, and hispid cotton rats (*Sigmodon hispidus*) were extremely common. Less common were sightings of deer mice (*Peromyscus maniculatus*); probably due to their more nocturnal habit and smaller size. Observations during January 1995 indicated no change in the amount of rodent activity (trails, nest, etc.). Due to the overgrown conditions of the area during the June 1995 field effort very few rodent species were seen. Trails and nest were present, but actual sightings were not made.

Off-base West Soldier Creek (EW02 and EW03)

Between Industrial Road and I-40, the riparian zone of West Soldier Creek is not well-suited for many forms of wildlife, such as small rodents, or large mammals. This area had the fewest species recorded of any of the riparian zones. This is due to the small area, the lack of habitat in the general area, and the heavy freeway traffic along the north side. The only bird species seen in the fall were bluejays and several small sparrows. In January, crows and rock doves were seen in the trees along the stream. There is no reason to expect that the area is not utilized by other woodland species of birds at times. A gray squirrel was the only mammal sighted on this section during the 1994 session. Additional evidence of squirrels was found in the form of cuttings along the banks. During the June 1995 field effort, raccoon tracks were common along the bank of the area. One early morning sighting of a coyote (*Canis latrans*) crossing Interstate 40 was made as it left this study area. On the uppermost portion, above the pipes carrying the creek, five plains pocket gopher (*Geomys bursarius*) mounds were found during the fall study period and several were still present during the winter observations. Several mounds were found in the area between the creek and the entrance ramp for I-40. Evidence for this species was common elsewhere on the base in areas that were cut as lawns. A few obscure tracks of a small mustelid mammal, possibly a very young skunk or an adult weasel, were observed near Industrial Road during the December 1994 reconnaissance visit. No evidence of other terrestrial vertebrate species was found (other than dogs and cats).

Crooked Oak Creek (EC01 and EC02)

General wildlife habitat is very good along the study sections of Crooked Oak Creek, with abundant cover, food, and water. However, no amphibians or reptiles were observed (probably due to thick groundcover). This area produced the greatest diversity of bird sightings during the formal flush counts. Several red-tailed hawks were seen hunting or perched in trees. Among the brush were kinglets (*Regulus satrapa*), Townsend's solitaires (*Myadestes townsendi*), grasshopper sparrows (*Ammodramus savannarum*), cardinals, rufous-sided towhees, bluejays, mockingbirds (*Mimus polyglottos*), and many species of sparrows and wablers that could not be identified due to flight. Mammal species identified were limited to cottontail rabbits and raccoon (*Procyon lotor*). Thick cover hampered sightings of small rodents and shrews which presumably were present.

Crutcho Creek

The reference area used in the field session for 1995 was an area rich in wildlife considering it flowed through areas of residential and industrial usage. The stream is a classic riffle and pool system with deep pools and swift shallow regions that provide a variety of habitats. Several bird species were recorded during activities in the region. Sightings were made of two Mississippi Kites (*Ictinia mississippiensis)* that frequent the area. One area of large cottonwoods near the downstream limit of the area appears to be a crow rookery as large flocks were constantly calling in the trees. Belted kingfishers as well as Snowy and great egrets were also seen feeding along Crutcho Creek. Other bird species were common passerine species and are listed in Table G-9. Evidence in the form of tracks indicatesthat raccoon, muskrats, opossums and beaver are common visitors along the creek. Several spiny softshell turtles were seen as well as red-eared sliders. A new species was added to the list for this study in the form of a Blotched Water Snake (*Nerodia erythrogaster transversa*) that was caught while engaged in crayfish collection.