

# **Voluntary Investigation Cleanup Report**

## **Data Usability Summary Report (DUSR)**

**Volume II**

**Coral Graphics, Inc.**

327 New South Road  
Hicksville, New York

**NP&V Job No. 01075**

**July, 2004**

**NELSON, POPE & VOORHIS, LLC**

ENVIRONMENTAL • PLANNING • CONSULTING



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# Premier Environmental Services

DATA USABILITY SUMMARY REPORT (DUSR)  
OF THE  
CORAL GRAPHICS - NEW SOUTH SOUTH ROAD SITE

ORGANIC AND INORGANIC ANALYSES  
IN AQUEOUS AND NON-AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP  
MOUNTAINSIDE, NEW JERSEY

REPORT NUMBER: P2891

May, 2004

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## NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** Volatile Organic Analyses, Semivolatile Organic Analyses,  
**SITE:** Coral Graphics – New South Road  
Hicksville, New York  
**CONTRACT LAB:** Chemtech  
Mountainside, New Jersey  
**REVIEWER:** Renee Cohen  
**DATE REVIEW COMPLETED:** May, 2004  
**MATRIX:** Aqueous and Non-Aqueous

The data validation was performed according to the guidelines in the described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment includes nine (9) soils and one (1) Field Blank and one (1) Trip Blank (aqueous) sample collected June 4, 2002. The samples associated with this data set are summarized in Table 1 of this report. All of the samples were shipped to Chemtech Laboratories, located in Mountainside, New Jersey. The samples were received at the laboratory on June 5, 2002 via UPS. All samples were received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260) and Semivolatile Organic Analytes (SVOA-EPA Method 8270) as specified on the Chain of Custody (COC) documentation that accompanied the samples to the laboratory. A copy of the COC documents associated with each data set is located in Appendix C of this report. Copies of any correspondence between this data validator and the laboratory are located in Appendix D of this report. In addition, the samples were analyzed for TAL Metals. The inorganic data review is located in the Inorganic Data Usability Summary Report.





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## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. OVERVIEW:**

The nine (9) soil samples, one (1) Field Blank and one (1) Trip Blank sample were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for the organic analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260 and 8270. The laboratory provided a deliverables package in accordance with the guidelines in the NYSDEC ASP, Rev '95, Category B.

### **2. HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection. Semivolatile Organic analyses are to be prepared/extracted within five (5) days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly samples is to prepare the aqueous samples within 7 days of collection and the soil samples within fourteen days of collection.

#### **Volatile Organic Analyses**

The validated soil and aqueous samples in this data set were analyzed for Volatile Organic Analytes. The samples and associated QC samples were analyzed within the ten (10) days of VTSR.

#### **Semivolatile Organic Analyses**

Nine (9) soil samples and the Field Blank sample were validated in this data set. The soil samples were extracted in one (1) batch on June 6, 2002. The Field Blank sample was extracted in an aqueous extraction batch on June 6, 2003. The samples in this data set were prepared and analyzed within the NYS DEC ASP holding time.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **3. SURROGATES:**

All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.

Volatile Organic Analyses – Each sample was spiked with the surrogate compounds 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Toluene-d8 and Dibromofluoromethane. In-house surrogate recovery limits were reported by the laboratory. The percent recovery of each surrogate met QC criteria in each of the validated samples in this data set with the exception of Dibromofluoromethane in sample 01075SP05S04 and 4-Bromofluorobenzene in sample 01075SP06S02. Both samples were reanalyzed and reported by the laboratory. Comparable recoveries were found in each of the reanalyses. The target analytes in each of these samples has been qualified "UJ/F" estimated.

Qualified data result pages are located in Appendix B of this report.

Semivolatile Organic Analyses – Each sample was spiked with the surrogate compounds 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14. The percent recovery of each surrogate met QC criteria in each of the sample analyses in this data set.

### **4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:**

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

#### **Volatile Organic Analyses**

Sample 01075MS01S02 was utilized for the soil MS/MSD analysis in this data set. The sample was fortified with all target analytes. The laboratory reported the five (5) CLP spike components on the summary page in the QC section of the data report. All Percent Recoveries and Relative Percent Differences met QC criteria in this MS/MSD sample set.

#### **Semivolatile Organic Analyses**

Sample 0107501S02 was utilized for the soil MS/MSD analysis associated with this data set. All Percent Recoveries reported met QC sample with the exception of Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 3,3'-Dichlorobenzidene and Indeno (1,2,3-cd)pyrene. No action was taken based on MS/MSD data alone. All Relative Percent Differences met QC criteria in the MS/MSD sample set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **5. BLANK SPIKE ANALYSIS:**

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

#### **Volatile Organic Analytes**

The laboratory reported one (1) blank spike analysis with this data set. The blank spike sample was fortified with all reported analytes. The laboratory reported the five (5) CLP spike compounds on the summary form in the QC section of the data report. The spike recovery for each of these compounds met QC criteria.

#### **Semivolatile Organic Analytes**

The laboratory performed one (1) soil blank spike analysis with this data set. The sample was spiked with all reported analytes. All spike recoveries in the blank spike sample met QC criteria. The laboratory performed one (1) aqueous blank spike analysis with this data set. The sample was spiked with all reported analytes. All spike recoveries in the blank spike sample met QC criteria.

### **6. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

#### **A) Method Blank contamination**

##### **Volatile Organic Analyses**

Three (3) soil and two (2) aqueous method blanks are associated with this data set. Each was free from contamination of both target and non-target analytes.



## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. BLANK CONTAMINATION (cont'd):**

#### **A) Method Blank contamination**

##### **Semivolatile Organic Analyses**

One (1) aqueous method blank sample is associated with the aqueous Field Blank sample in this data set. The aqueous method blank analyzed on Instrument B was free from contamination of all target analytes with the exception of Bis(2-Ethylhexyl)phthalate (1.8 J ug/L). Aldol Condensation Products (ACP) and system artifacts at retention time 2:56 and 16:51 minutes were detected in this method blank sample. The Field Blank sample was free from contamination therefore, the ACP and system artifact did not have to be negated from the associated Field Blank sample.

One (1) soil method blank sample is associated with the validated samples in this data set. The soil method blank analyzed on Instrument C was free from contamination of all target analytes with the exception of Bis(2-Ethylhexyl)phthalate (49 J ug/L). Aldol Condensation Products (ACP) and system artifacts at retention time 4.60 and 5.59 minutes were detected in this method blank sample. Chemtech Consulting did not qualify the ACP on the sample result forms with a "B" to indicate that they were blank contaminants, however, they were not added when total TIC's detected were reported for each sample. Bis (2-Ethylhexyl)phthalate and the system artifacts have been negated from the associated field samples in this data set.

Qualified data result pages are located in Appendix B of this report.

#### **B) Field Blank contamination**

##### **Volatile Organic Analyses**

The Field Blank sample (01075FB01PW01) is free from contamination of all target and non-target analytes.

##### **Semivolatile Organic Analyses**

The Field Blank sample (01075FB01PW01) was free from contamination of all target and non-target analytes.

#### **C) Trip Blank contamination**

##### **Volatile Organic Analyses**

The Trip Blank sample (01075TB01PW01) was free from contamination of all target analytes with the exception of Methylene Chloride (1.9 J ug/L). Methylene Chloride is a common laboratory contaminant. When detected in the samples associated with this data set, it has been negated and qualified "U". The Trip Blank sample also contained one non-target analyte due to column bleed at retention time 9:58 minutes. When this column bleed was reported in associated samples, it has been negate and qualified "U".

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

#### A) RESPONSE FACTOR

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria is not met in an initial calibration the positive results are qualified "J". Non detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, effected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria is set for these analytes. If the minimum criteria is not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

#### Volatile Organic Analyses

Two (2) initial calibration curves are associated with this data set. The laboratory performed an initial multi-level soil calibration on June 7, 2002 (Inst. A). The RRF for all target compounds met QC criteria in this initial calibration curve.

Two (2) soil continuing calibration standards are associated with this data set. All response factors of the target analytes met QC criteria in these continuing calibration standard analyses.

An aqueous multi-level aqueous calibration curve was analyzed June 6, 2002 (Inst. D). The RRF for all target compounds met QC criteria in this initial calibration curve.

Two (2) aqueous continuing calibration standards are associated with this data set. All response factors of the target analytes met QC criteria in these continuing calibration standard analyses.

#### Semivolatile Organic Analyses

Two (2) initial calibration curves are associated with this data set. The laboratory performed an initial multi level calibration on June 7, 2002 (Inst. C). The RRF of all target compounds met QC criteria in this initial calibration curve. An additional calibration curve was analyzed on June 11, 2002 (Inst. B). The RRF of all target compounds met QC criteria in this initial calibration curve.

Two (2) continuing calibration standard is associated with the curve analysis on Instrument C. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses. One (1) continuing calibration standard is associated with the curve analysis on Instrument B. Response factors of each target analyte met QC criteria in these continuing calibration standard analyses.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgement. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unuseable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

#### Volatile Organic Analyses

Two (2) initial calibration curves are associated with this data set. The laboratory performed one (1) initial multi level soil calibration on June 7, 2002 (Inst. A). The %RSD for all target compounds met QC criteria in this initial calibration curve with the exception of Methylene Chloride (39.2%). An aqueous initial calibration curve was analyzed on June 6, 2002 (Inst. D). The %RSD for all target compounds met QC criteria in this initial calibration curve with the exception of 2-Hexanone (44.8%). These analytes have been qualified "UJ/J" estimated in the samples in this data set.

Two (2) soil continuing calibration standard analyse are associated with this data set. All Percent Difference (%D) criteria were met in each of these continuing calibration standard analyses.

Two (2) aqueous continuing calibration standard is associated with this data set. All % Difference criteria were met for all target analytes in each of the continuing calibration standard analyses with the exception of 2-Hexanone (30.3%) in the CCV standard analyzed June 10, 2002 (File ID: VD061002.D). This CCV standard is associated with the sample 01075FB01PW01. 2-Hexanone has been qualified "UJ" in this sample.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

##### Semivolatile Organic Analyses

Two (2) initial calibration curve analyses are associated with this data set. The laboratory performed an initial multi level calibration on June 2, 2002 (Inst. B). The %RSD criteria was met for all target compounds in the initial calibration curve with the exception of Hexachlorocyclopentadiene (48.2%), 2,4-Dinitrophenol (39.8%), 4-Chlorophenylphenyl ether (30.4%), Fluorene (31.6%) and Benzo(k)fluoranthene (45.1%).

Two (2) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date    | File ID    | Analyte                    | %Difference |
|---------|------------|----------------------------|-------------|
| 6/13/02 | BC001633.D | Nitrobenzene               | 26.5        |
|         |            | bis(2-Chloroethoxy)methane | 34.3        |
|         |            | Hexachlorocyclopentadiene  | 52.8        |
|         |            | 2,4-Dinitrophenol          | 27.1        |
|         |            | 4,6-Dinitro-2-methylphenol | 37.8        |
|         |            | Indeno(1,2,3-cd)pyrene     | 25.1        |

The laboratory performed an initial multi level calibration on June 11, 2002 (Inst. C). The %RSD criteria was met for all target compounds in the initial calibration curve with the exception of Hexachlorocyclopentadiene (40.1%) and Benzo(k)fluoranthene (34.8%).

One (1) continuing calibration standard is associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis.

### 8. GC/MS MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). The tuning compound for semivolatile organic analyses is decafluorotriphenylphosphine (DFTPP). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

Volatile Organic Analyses/ Semivolatile Organic Analyses – All Instrument Tuning criteria was met for these sample analyses.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 9. GC/MS INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than  $\pm 30$  seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria are applied to all field and QC samples.

#### Volatile Organic Analyses

All samples were fortified with the internal standards Tert Butyl Alcohol-d9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. All internal standard area criteria were met for the validated samples in this data set.

#### Semivolatile Organic Analyses

The samples were fortified with the internal standards 1,4-Dichlorobenzene-d4, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d12 and Perylene-d12. All Internal Standard QC criteria were met for the samples in this data set with the exception of the following:

| Sample ID          | Internal Standard                                                                                                | Sample ID          | Internal Standard                                |
|--------------------|------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------|
| 01075SP01S02 (1:1) | Chrysene-d12<br>Perylene-d12                                                                                     | 01075SP01S02(1:10) | Perylene-d12                                     |
| 01075SP02S02 (1:1) | Chrysene-d12<br>Perylene-d12                                                                                     | 01075SP02S02(1:10) | Perylene-d12                                     |
| 01075SP05S04       | Chrysene-d12<br>Perylene-d12                                                                                     | 01075SP05S04 RE    | Chrysene-d12<br>Perylene-d12                     |
| 01075SP06S02       | 1,4-Dichlorobenzene-d4<br>Naphthalene-d8<br>Acenaphthene-d10<br>Phenanthrene-d10<br>Chrysene-d12<br>Perylene-d12 | 01075SP06S02 RE    | Phenanthrene-d10<br>Chrysene-d12<br>Perylene-d12 |

The target analytes associated with the Internal Standards which exceed QC criteria have been qualified "UJ/J" estimated in accordance with the cited validation guidelines.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 10. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within  $\pm 0.06$  RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

#### Volatile Organic Analyses

All of the soil samples reported the VOA 8260 analytes specified on the COC documents. A Library Search was performed and reported with all samples in this data set. The laboratory reported the target analytes to the determined method detection limit. All validated samples were analyzed and reported without dilution except where noted below. All soil sample data was reported on a dry weight basis.

The laboratory initially reports sample 01075SP06S02 (P2891-07) without noting the reduced sample weight used. The laboratory reduced the sample weight to 2.5 grams. The reported results did not reflect the sample preparation, therefore, all target analyte results were multiplied by a factor of 2. The laboratory was contacted and revised data result pages for this sample and the reanalysis of this sample were provided for review. A copy of the correspondence associated with this issue is located in Appendix D of this report. Data qualifiers to the sample have been made to the revised data result pages located in appendix B of this report.

#### Semivolatile Organic Analyses

The laboratory reported the Semivolatile target analytes to the determined method detection limit. A Library Search was performed and reported with all samples in this data set. The validated samples were analyzed and reported without dilution except where noted below. When dilution analysis was performed, data result pages for each of the analyses was reported in the data report. The target analytes reported in the diluted analysis were reported with the "D" qualifier by the laboratory as noted in the method. The soil sample was prepared and analyzed in accordance with the method cited. The soil samples were prepared using approximately 30 grams of sample. All soil sample results are reported on a dry weight basis.

Sample 01075SP01S02 was initially analyzed without dilution on June 14, 2002. All surrogate recoveries met QC criteria. The sample chromatogram exhibited matrix interference in the form of a "hump" and a number of target analyte concentrations exceeded the range of the GC/MS. The sample extract was analyzed on June 17, 2002 using a dilution of 1:10. This reduced the matrix interference, however a number of target analyte concentrations still exceeded the calibration range. The sample was again reanalyzed using a dilution factor of 1:50. All target analytes were reported within range. The matrix interference was verified through the area counts of the internal standards Chrysene-d12 and Perylene-d12. The area counts of these internal standards exceeded QC criteria in the initial analysis. Perylene-d12 exceeded QC criteria in the 1:10 analysis as well. All internal standard area criteria were met in the 1:50 analysis. Target analytes associated with these internal standards in the initial analysis and the 1:10 dilution analysis have been qualified UJ/P estimated on the data result pages.

Qualified data result pages are located in Appendix B of this report.



## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 10. COMPOUND IDENTIFICATION (cont'd)

#### Semivolatile Organic Analyses

Sample 01075SP02S02 was initially analyzed on June 14, 2002. QC criteria were met for the surrogates in this sample. A number of target analytes exceeded the calibration range and the sample was reanalyzed using a dilution factor of 1:10. The sample chromatogram exhibited matrix interference in the form of a "hump" in the initial analysis. This matrix interference/"hump" was reduced in the 1:10 analysis. The internal standard area counts of Chrysene-d12 and Perylene-d12 exceeded QC criteria in the initial analysis. The internal standard area counts of Perylene-d12 exceeded QC criteria in the 1:10 analysis. Target analytes associated with these internal standards in the initial analysis and the 1:10 dilution analysis have been qualified UJ/J" estimated on the data result pages.

Qualified data result pages are located in Appendix B of this report.

Sample 01075SP05S04 was initially analyzed on June 14, 2002. QC criteria were met for the surrogates in this sample. The sample chromatogram exhibited matrix interference in the form of a "hump" in the initial analysis. The internal standard area counts of Chrysene-d12 and Perylene-d12 exceeded QC criteria in the initial analysis. The sample was reanalyzed without any additional dilution and the matrix interference was confirmed. The internal standard area counts of Chrysene-d12 and Perylene-d12 exceeded QC criteria. Target analytes associated with these internal standards in both the initial analysis and reanalysis have been qualified UJ/J" estimated on the data result pages.

Qualified data result pages are located in Appendix B of this report.

Sample 01075SP06S02 was initially analyzed on June 14, 2002. QC criteria were met for the surrogates in this sample. The sample chromatogram exhibited matrix interference in the form of a "hump" in the initial analysis. The area counts of each internal standard exceeded QC criteria in the initial analysis. The sample was reanalyzed without any additional dilution and the matrix interference was confirmed. The internal standard area counts of Phenanthrene-d10, Chrysene-d12 and Perylene-d12 exceeded QC criteria. Target analytes associated with these internal standards in both the initial analysis and reanalysis have been qualified UJ/J" estimated on the data result pages.

Qualified data result pages are located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **11. FIELD DUPLICATE SAMPLE ANALYSIS**

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples.

Duplicate samples are not associated with this data set.

### **12. OVERALL ASSESSMENT:**

Analytical QC criteria were met for these analyses. The data reported agrees with the raw data provided in the final report. Any discrepancies were addressed to the laboratory and a response was provided. Copies of this correspondence are located in Appendix D of this report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package. All soil sample data was reported on a dry weight basis.

The data provided for this data set is acceptable for use, with the noted data qualifiers.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. HOLDING TIME**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

All sample analyses associated with Project ID: P2891 were prepared/digested and analyzed within the proper holding time.

### **2. CALIBRATION ANALYSIS**

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The samples were analyzed in one analytical sequence June 7, 2002. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria.

Analysis for Cold Vapor Mercury is calibrated using multi point standards and calculating the correlation coefficient of the curve. One of the calibrations standards must be analyzed at the CRDL. The Mercury analyses associated with this data set was performed on June 10, 2002. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

### **3. CRDL STANDARD**

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

All ICP CRDL standards associated with this data set met QC criteria.

## NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** TAL Metals

**SITE:** Coral Graphics Site

**CONTRACT LAB:** Chemtech Consulting Group  
Mountainside, New Jersey

**REVIEWER:** Renee Cohen

**DATE REVIEW COMPLETED:** May, 2004

**MATRIX:** Aqueous and Non-Aqueous

This data assessment is for nine (9) soil samples, one (1) Field Blank and one (1) Trip Blank sample as listed below. The samples were collected on June 4, 2002 and shipped via UPS to Chemtech Consulting Group, located in Mountainside, New Jersey. All samples, with the exception of the Trip Blank were analyzed for the TAL Metals group. The samples were received at the laboratory on June 5, 2002. A copy of the Chain of Custody documents is located in Appendix C of this report.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. INTERFERENCE CHECK STANDARD**

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferents metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

### **5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSIS**

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-200%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. If the matrix spike recovery is greater than 200%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

MS/MSD analysis was performed on sample 01075SP06S02. All percent recoveries met QC criteria in the MS/MSD sample set met QC criteria with the exception of Aluminum (353.8%/351.0%), Copper (65.9%/66.0%), Lead (-11.7%/-12.5%), Manganese (159.4%/157.3%) and Zinc (69.6%/68.8%). The soil samples associated with MS/MSD sample have been qualified "J/UJ" estimated for each of these target analytes.

Qualified data result pages are located in Appendix B of this report.

### **6. POST DIGESTION SPIKE ANALYSIS**

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Chemtech Consulting Group did not perform post digestion spike analysis with this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **7. DUPLICATE SAMPLE ANALYSIS**

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Duplicate sample analysis was performed on sample 01075SP06S02. All duplicate analyte RPD's met QC criteria in this sample with the exception of Aluminum (35.5%), Arsenic (86.4%), Copper (72.5%), Iron (27.8%), Lead (126.9%), Manganese (102.6%), vanadium (56.5%) and Zinc (47.6%). These analytes have been qualified "J" estimated in the soil samples associated with this data set.

Qualified result pages are located in Appendix B of this report.

### **8. ICP SERIAL DILUTION**

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Sample 01075SP06S02 was utilized for the serial dilution analysis. All serial dilution results met QC criteria in this sample analysis.

### **9. BLANKS**

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

ICP Metals – The soil samples in this data set were prepared in one (1) batch on 6/6/02. This method blank was free from contamination of target analytes above the CRDL. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 6/6/02. This method blank was free from contamination of target analytes above the CRDL.

Mercury Analyses - The soil samples in this data set were prepared in one (1) batch on 6/6/02. This method blank was free from contamination. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 6/6/02. This method blank was free from contamination

One (1) field blank sample is associated with this data set. The Field Blank sample was free from contamination of all target analytes with the exception of Potassium (37.1 ug/L). Potassium was detected in each of the soil samples at a concentration greater than that attributed to Field Blank contamination, therefore, no action was taken.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **10. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)**

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine if data should be qualified or rejected.

Chemtech prepared and analyzed an aqueous and soil LCS sample with each digestion batch associated with this data set. Recovery limits of 80%-120% were utilized for review of the aqueous LCS sample. Commercial recovery limits were listed with the soil LCS summary page. All LCS recoveries met QC limits.

### **11. INSTRUMENT QC DATA**

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech Consulting Group performed the required studies specified by the method.

### **12. FIELD DUPLICATE SAMPLE ANALYSIS**

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Analytes reported above the method detection limit are listed. Data was not qualified based on the RPD of field duplicate sample analyses.

A field sample was not collected in duplicate with this sample set.

### **13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT**

This data set included the analysis of nine (9) soil samples and one (1) Field Blank sample. The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. A description of the qualifiers and decision for them is detailed in the above report. Soil sample data results are reported in a dry weight basis.

The data associated with this data set is acceptable for use with the noted data qualifiers. Details of the data qualification added to the analyte are located in the above text.

# *Premier Environmental Services*

## **TABLE 1**



# Premier Environmental Services

## CLIENT SAMPLE ID

## LABORATORY SAMPLE ID

01075SP01S02

P2891-01

01075SP01S12

P2891-02

01075SP02S02

P2891-03

01075SP02S12

P2891-04

01075SP04S20

P2891-05

01075SP05S04

P2891-06

01075SP06S12

P2891-07

01075SP07S12

P2891-08

01075SP08S12

P2891-09

01075FB01PW01

P2891-10

01075TB01PW01

P2891-11

01075MS01S02

P2891-12

01075MSD01S02

P2891-13

# Premier Environmental Services

## APPENDIX A

# Premier Environmental Services

## DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected, and the reported quantitation limit is probably higher than reported.

# Premier Environmental Services

## APPENDIX B

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01

Client ID: 01075SP01S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061011.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 16

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>            |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 2.0         | U | 6.0 | 2.0  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.5         | U | 6.0 | 1.5  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.5 U J     | U | 6.0 | 1.5  | ug/Kg |
| Acetone                   | 67-64-1     | < 4.2         | U | 6.0 | 4.2  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.5         | U | 6.0 | 1.5  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| 1,1-Dichloroethane        | 75-34-3     | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| Chloroform                | 67-66-3     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| 1,1-Dichloroethane        | 107-06-2    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Butanone                  | 78-93-3     | < 6.4         | U | 6.0 | 6.4  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.5         | U | 6.0 | 2.5  | ug/Kg |
| 1,1-Dichloroethane        | 75-27-4     | < 0.95        | U | 6.0 | 0.95 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.95        | U | 6.0 | 0.95 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| 1,1-Dichloroethene        | 79-01-6     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| 1,2-Trichloroethane       | 79-00-5     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| 1,3-Dichloropropene       | 10061-02-6  | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Formoform                 | 75-25-2     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| 1-Methyl-2-Pentanone      | 108-10-1    | < 4.8         | U | 6.0 | 4.8  | ug/Kg |
| Hexanone                  | 591-78-6    | < 7.1         | U | 6.0 | 7.1  | ug/Kg |
| 1,1-Dichloroethene        | 127-18-4    | < 1.4         | U | 6.0 | 1.4  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Toluene                   | 108-88-3    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Benzene                   | 100-42-5    | < 1.7         | U | 6.0 | 1.7  | ug/Kg |
| m,p-Xylenes               | 136777-61-2 | < 3.3         | U | 6.0 | 3.3  | ug/Kg |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-01

Client ID: 01075SP01S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061011.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 16

| Parameter                                | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|------------------------------------------|------------|---------------|-------|----------|-----|---------|
| Xylene                                   | 95-47-6    | < 1.5         | 0     | 6.0      | 1.5 | ug/kg   |
| <b>SURROGATES</b>                        |            |               |       |          |     |         |
| Dichloroethane-d4                        | 79-00-5    | 44.4          | 89 %  | 70 - 121 |     | SPK: 50 |
| uene-d8                                  | 2037-26-5  | 51.08         | 102 % | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene                     | 460-00-4   | 40.05         | 80 %  | 74 - 121 |     | SPK: 50 |
| romofluoromethane                        |            | 49.63         | 99 %  | 80 - 120 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b>                |            |               |       |          |     |         |
| Pentafluorobenzene                       | 363-72-4   | 1963585       | 5.97  |          |     |         |
| Di fluorobenzene                         | 540-36-3   | 2157545       | 7.74  |          |     |         |
| Chlorobenzene-d5                         | 3114-55-4  | 1692584       | 13.94 |          |     |         |
| Dichlorobenzene-d4                       | 3855-82-1  | 1002523       | 19.45 |          |     |         |
| <b>QUANTITATIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |         |
| Octadecane, 1-chloro-                    | 3386332    | 6.4           |       | 20.13    |     | ug/L    |
| amide, 2,2,2-trifluoro-N,N-bis           | 21149382   | 13            |       | 20.49    |     | ug/L    |
| ane, 2-methyl-                           | 6975980    | 6.1           |       | 24.47    |     | ug/L    |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-02

Client ID: 01075SP01S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060712.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0607S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>ARGETS</b>             |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.2 | 1.8  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.6         | U | 5.2 | 3.6  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,1,1-Dichloroethane      | 75-34-3     | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,2-Dichloroethane        | 107-06-2    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Butanone                  | 78-93-3     | < 5.6         | U | 5.2 | 5.6  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.2 | 2.2  | ug/Kg |
| Bromodichloromethane      | 75-27-4     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,1,3-Dichloropropene     | 10061-01-5  | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1-Dichloroethene        | 79-01-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1,2-Trichloroethane     | 79-00-5     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,3-Dichloropropene       | 10061-02-6  | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Bromoform                 | 75-25-2     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 4.2         | U | 5.2 | 4.2  | ug/Kg |
| Hexanone                  | 591-78-6    | < 6.2         | U | 5.2 | 6.2  | ug/Kg |
| 1,1,1-Trichloroethene     | 127-18-4    | < 1.2         | U | 5.2 | 1.2  | ug/Kg |
| 1,1,1,2-Tetrachloroethane | 79-34-5     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Styrene                   | 108-88-3    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Propylene                 | 100-42-5    | < 1.5         | U | 5.2 | 1.5  | ug/Kg |
| p-Xylenes                 | 136777-61-2 | < 2.9         | U | 5.2 | 2.9  | ug/Kg |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-02

Client ID: 01075SP01S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060712.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0607S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter              | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|------------------------|------------|---------------|-------|----------|-----|---------|
| Xylene                 | 95-47-0    | < 1.1         | 0     | 5.2      | 1.1 | ug/kg   |
| SURROGATES             |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4  | 79-00-5    | 44.41         | 89 %  | 70 - 121 |     | SPK: 50 |
| luene-d8               | 2037-26-5  | 49.13         | 98 %  | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene   | 460-00-4   | 39.69         | 79 %  | 74 - 121 |     | SPK: 50 |
| Bromofluoromethane     |            | 49.79         | 100 % | 80 - 120 |     | SPK: 50 |
| INTERNAL STANDARDS     |            |               |       |          |     |         |
| Pentafluorobenzene     | 363-72-4   | 2161811       | 5.94  |          |     |         |
| Di fluorobenzene       | 540-36-3   | 2458598       | 7.71  |          |     |         |
| lorobenzene-d5         | 3114-55-4  | 1931598       | 13.93 |          |     |         |
| 1,4-Dichlorobenzene-d4 | 3855-82-1  | 1148022       | 19.47 |          |     |         |



## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03

Client ID: 01075SP02S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061006.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 5

| Parameter                 | CAS Number  | Concentration     | C | RDL | MDL  | Units |
|---------------------------|-------------|-------------------|---|-----|------|-------|
| <b>TARGETS</b>            |             |                   |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8             | U | 5.3 | 1.8  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4             | U | 5.3 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4 <i>U.S.</i> | U | 5.3 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.7             | U | 5.3 | 3.7  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4             | U | 5.3 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| 1,2-Dichloroethane        | 75-34-3     | < 0.95            | U | 5.3 | 0.95 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.95            | U | 5.3 | 0.95 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| 1,2-Dichloroethane        | 107-06-2    | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| Butanone                  | 78-93-3     | < 5.7             | U | 5.3 | 5.7  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2             | U | 5.3 | 2.2  | ug/Kg |
| Bromodichloromethane      | 75-27-4     | < 0.84            | U | 5.3 | 0.84 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.84            | U | 5.3 | 0.84 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.95            | U | 5.3 | 0.95 | ug/Kg |
| Chloroethene              | 79-01-6     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 0.95            | U | 5.3 | 0.95 | ug/Kg |
| 1,2-Trichloroethane       | 79-00-5     | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| 1,3-Dichloropropene       | 10061-02-6  | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Chloroform                | 75-25-2     | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| Methyl-2-Pentanone        | 108-10-1    | < 4.2             | U | 5.3 | 4.2  | ug/Kg |
| Hexanone                  | 591-78-6    | < 6.3             | U | 5.3 | 6.3  | ug/Kg |
| 1,2-Dichloroethene        | 127-18-4    | < 1.3             | U | 5.3 | 1.3  | ug/Kg |
| 1,2,2,2-Tetrachloroethane | 79-34-5     | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Toluene                   | 108-88-3    | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.2             | U | 5.3 | 1.2  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.1             | U | 5.3 | 1.1  | ug/Kg |
| Benzene                   | 100-42-5    | < 1.5             | U | 5.3 | 1.5  | ug/Kg |
| p-Xylenes                 | 136777-61-2 | < 2.9             | U | 5.3 | 2.9  | ug/Kg |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03

Client ID: 01075SP02S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061006.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 5

| Parameter              | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|------------------------|------------|---------------|-------|----------|-----|---------|
| Styrene                | 95-47-6    | < 1.2         | U     | 5.5      | 1.2 | ug/kg   |
| SURROGATES             |            |               |       |          |     |         |
| 1,1-Dichloroethane-d4  | 79-00-5    | 47.48         | 95 %  | 70 - 121 |     | SPK: 50 |
| Toluene-d8             | 2037-26-5  | 49.25         | 99 %  | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene   | 460-00-4   | 38.83         | 78 %  | 74 - 121 |     | SPK: 50 |
| 1-Bromofluoromethane   |            | 51.92         | 104 % | 80 - 120 |     | SPK: 50 |
| INTERNAL STANDARDS     |            |               |       |          |     |         |
| Pentafluorobenzene     | 363-72-4   | 1968251       | 5.94  |          |     |         |
| 1,2-Difluorobenzene    | 540-36-3   | 2243814       | 7.69  |          |     |         |
| Chlorobenzene-d5       | 3114-55-4  | 1737536       | 13.93 |          |     |         |
| 1,4-Dichlorobenzene-d4 | 3855-82-1  | 1044585       | 19.44 |          |     |         |

**Volatiles**

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-04

Client ID: 01075SP02S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060714.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0607S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>ARGETS</b>             |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.2 | 1.8  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.6         | U | 5.2 | 3.6  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,2-Dichloroethane        | 75-34-3     | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,2-Dichloroethane        | 107-06-2    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Butanone                  | 78-93-3     | < 5.6         | U | 5.2 | 5.6  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.2 | 2.2  | ug/Kg |
| 1,1-Dibromochloromethane  | 75-27-4     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1-Dichloroethene        | 79-01-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1,2-Trichloroethane     | 79-00-5     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| trans-1,3-Dichloropropene | 10061-02-6  | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroform                | 75-25-2     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Methyl-2-Pentanone        | 108-10-1    | < 4.2         | U | 5.2 | 4.2  | ug/Kg |
| 2-Hexanone                | 591-78-6    | < 6.2         | U | 5.2 | 6.2  | ug/Kg |
| 1,1,1-Trichloroethene     | 127-18-4    | < 1.2         | U | 5.2 | 1.2  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Toluene                   | 108-88-3    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Xylene                    | 100-42-5    | < 1.5         | U | 5.2 | 1.5  | ug/Kg |
| p-Xylenes                 | 136777-61-2 | < 2.9         | U | 5.2 | 2.9  | ug/Kg |

Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-04

Client ID: 01075SP02S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060714.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0607S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------|------------|---------------|---|-----|-----|-------|
| Xylene    | 95-47-6    | < 1.1         | U | 5.2 | 1.1 | ug/kg |

SURROGATES

|                           |           |       |       |          |  |         |
|---------------------------|-----------|-------|-------|----------|--|---------|
| 1,2-Dichloroethane-d4     | 79-00-5   | 44.42 | 89 %  | 70 - 121 |  | SPK: 50 |
| 1,2,4-Trichlorobenzene-d8 | 2037-26-5 | 49.98 | 100 % | 81 - 117 |  | SPK: 50 |
| 1,4-Dibromofluorobenzene  | 460-00-4  | 39.7  | 79 %  | 74 - 121 |  | SPK: 50 |
| 1,2-Dibromofluoromethane  |           | 49.49 | 99 %  | 80 - 120 |  | SPK: 50 |

INTERNAL STANDARDS

|                        |           |         |       |  |  |  |
|------------------------|-----------|---------|-------|--|--|--|
| Pentafluorobenzene     | 363-72-4  | 2215205 | 5.94  |  |  |  |
| 1,2-Difluorobenzene    | 540-36-3  | 2529194 | 7.71  |  |  |  |
| 1,3-Difluorobenzene-d5 | 3114-55-4 | 2045774 | 13.96 |  |  |  |
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 1235719 | 19.47 |  |  |  |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-05

Client ID: 01075SP04S20

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061007.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>ARGETS</b>             |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.2 | 1.8  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.6         | U | 5.2 | 3.6  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,2-Dichloroethane        | 75-34-3     | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,1-Dichloroethane        | 107-06-2    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Pentanone                 | 78-93-3     | < 5.6         | U | 5.2 | 5.6  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.2 | 2.2  | ug/Kg |
| 1,1-Dichloromethane       | 75-27-4     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| Chloroethene              | 79-01-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1,2-Trichloroethane     | 79-00-5     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,3-Dichloropropene       | 10061-02-6  | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroform                | 75-25-2     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Methyl-2-Pentanone        | 108-10-1    | < 4.2         | U | 5.2 | 4.2  | ug/Kg |
| Hexanone                  | 591-78-6    | < 6.2         | U | 5.2 | 6.2  | ug/Kg |
| 1,2-Dichloroethene        | 127-18-4    | < 1.2         | U | 5.2 | 1.2  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Toluene                   | 108-88-3    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Styrene                   | 100-42-5    | < 1.5         | U | 5.2 | 1.5  | ug/Kg |
| p-Xylenes                 | 136777-61-2 | < 2.9         | U | 5.2 | 2.9  | ug/Kg |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-05

Client ID: 01075SP04S20

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061007.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Vol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter                                | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|------------------------------------------|------------|---------------|-------|----------|-----|---------|
| Tyrene                                   | 95-47-6    | < 1.1         | U.    | 5.2      | 1.1 | ug/kg   |
| <b>SURROGATES</b>                        |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4                    | 79-00-5    | 43.27         | 87 %  | 70 - 121 |     | SPK: 50 |
| 1,2,4-Trichlorobenzene-d8                | 2037-26-5  | 49.47         | 99 %  | 81 - 117 |     | SPK: 50 |
| 1,4-Dibromofluorobenzene                 | 460-00-4   | 40            | 80 %  | 74 - 121 |     | SPK: 50 |
| 1,2-Dibromofluoromethane                 |            | 40.18         | 80 %  | 80 - 120 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b>                |            |               |       |          |     |         |
| Pentafluorobenzene                       | 363-72-4   | 2089350       | 5.97  |          |     |         |
| 1,2-Difluorobenzene                      | 540-36-3   | 2296358       | 7.74  |          |     |         |
| 1,2,3-Trifluorobenzene-d5                | 3114-55-4  | 1892640       | 13.96 |          |     |         |
| 1,4-Dichlorobenzene-d4                   | 3855-82-1  | 1132769       | 19.47 |          |     |         |
| <b>QUANTITATIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |         |
| Stilbene, 9H-fluoren-9-yltrimethyl-      | 7385106    | 6.3           |       | 20.51    |     | ug/L    |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-06

Client ID: 01075SP05S04

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060716.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0607S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 6

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>            |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.3 | 1.8  | ug/Kg |
| Dimomethane               | 74-83-9     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.7         | U | 5.3 | 3.7  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1-Dichloroethane        | 75-34-3     | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1-Dichloroethane        | 107-06-2    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Butanone                  | 78-93-3     | < 5.7         | U | 5.3 | 5.7  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.3 | 2.2  | ug/Kg |
| Bromodichloromethane      | 75-27-4     | < 0.85        | U | 5.3 | 0.85 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.85        | U | 5.3 | 0.85 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| Trichloroethene           | 79-01-6     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Bromochloromethane        | 124-48-1    | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| 1,2-Trichloroethane       | 79-00-5     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,3-Dichloropropene       | 10061-02-6  | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Formoform                 | 75-25-2     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 4.3         | U | 5.3 | 4.3  | ug/Kg |
| Hexanone                  | 591-78-6    | < 6.4         | U | 5.3 | 6.4  | ug/Kg |
| Tetrachloroethene         | 127-18-4    | < 1.3         | U | 5.3 | 1.3  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Toluene                   | 108-88-3    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Xylene                    | 100-42-5    | < 1.5         | U | 5.3 | 1.5  | ug/Kg |
| m/p-Xylenes               | 136777-61-2 | < 3.0         | U | 5.3 | 3.0  | ug/Kg |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-06

Client ID: 01075SP05S04

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060716.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0607S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 6

| Parameter | CAS Number | Concentration | C  | RDL | MDL | Units |
|-----------|------------|---------------|----|-----|-----|-------|
| Toluene   | 95-47-6    | < 1.2         | UJ | 5.5 | 1.2 | ug/kg |

## SURROGATES

|                          |           |       |       |          |  |         |
|--------------------------|-----------|-------|-------|----------|--|---------|
| Dichloroethane-d4        | 79-00-5   | 44.06 | 88 %  | 70 - 121 |  | SPK: 50 |
| Heptachloroethane-d8     | 2037-26-5 | 51.21 | 102 % | 81 - 117 |  | SPK: 50 |
| 1,4-Dibromofluorobenzene | 460-00-4  | 39.89 | 80 %  | 74 - 121 |  | SPK: 50 |
| 1,1-Dibromofluoromethane |           | 5.34  | 11 %  | 80 - 120 |  | SPK: 50 |

## INTERNAL STANDARDS

|                        |           |         |       |  |  |  |
|------------------------|-----------|---------|-------|--|--|--|
| Pentafluorobenzene     | 363-72-4  | 2170967 | 5.94  |  |  |  |
| 1,2-Difluorobenzene    | 540-36-3  | 2437558 | 7.71  |  |  |  |
| Chlorobenzene-d5       | 3114-55-4 | 1927213 | 13.96 |  |  |  |
| 1,2-Dichlorobenzene-d4 | 3855-82-1 | 1139892 | 19.47 |  |  |  |



## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-06RE

Client ID: 01075SP05S04RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061008.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 6

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| 1 RGETS                  |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 1.8         | U | 5.3 | 1.8  | ug/Kg |
| Bromomethane             | 74-83-9     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Ethyl chloride           | 75-01-4     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Chloroethane             | 75-00-3     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| 1,1-Dichloroethane       | 75-09-2     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| Carbon disulfide         | 67-64-1     | < 3.7         | U | 5.3 | 3.7  | ug/Kg |
| 1,1-Dichloroethane       | 75-15-0     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| trans-1,2-Dichloroethane | 75-35-4     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| cis-1,2-Dichloroethane   | 75-34-3     | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| Chloroform               | 156-60-5    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1,1-Trichloroethane    | 156-59-2    | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| 2-Butanone               | 67-66-3     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,1-Trichloroethane    | 107-06-2    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Carbon Tetrachloride     | 78-93-3     | < 5.7         | U | 5.3 | 5.7  | ug/Kg |
| 1,1-Dichloroethane       | 71-55-6     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,2-Dichloropropane      | 56-23-5     | < 2.2         | U | 5.3 | 2.2  | ug/Kg |
| 1,3-Dichloropropane      | 75-27-4     | < 0.85        | U | 5.3 | 0.85 | ug/Kg |
| 1,1,2-Trichloroethane    | 78-87-5     | < 0.85        | U | 5.3 | 0.85 | ug/Kg |
| 1,1,2-Trichloroethane    | 10061-01-5  | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| 1,1,2-Trichloroethane    | 79-01-6     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,2-Trichloroethane    | 124-48-1    | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| 1,1,2-Trichloroethane    | 79-00-5     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1,2-Trichloroethane    | 71-43-2     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,2-Trichloroethane    | 10061-02-6  | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,2-Trichloroethane    | 75-25-2     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1,2-Trichloroethane    | 108-10-1    | < 4.3         | U | 5.3 | 4.3  | ug/Kg |
| 1,1,2-Trichloroethane    | 591-78-6    | < 6.4         | U | 5.3 | 6.4  | ug/Kg |
| 1,1,2-Trichloroethane    | 127-18-4    | < 1.3         | U | 5.3 | 1.3  | ug/Kg |
| 1,1,2-Trichloroethane    | 79-34-5     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,2-Trichloroethane    | 108-88-3    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1,2-Trichloroethane    | 108-90-7    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1,2-Trichloroethane    | 100-41-4    | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,2-Trichloroethane    | 100-42-5    | < 1.5         | U | 5.3 | 1.5  | ug/Kg |
| 1,1,2-Trichloroethane    | 136777-61-2 | < 3.0         | U | 5.3 | 3.0  | ug/Kg |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-06RE

Client ID: 01075SP05S04RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061008.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0610S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 6

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| ethylene                  | 95-47-0    | < 1.2         | UJ    | 5.5      | 1.2 | ug/kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4     | 79-00-5    | 44.87         | 90 %  | 70 - 121 |     | SPK: 50 |
| 1,2,4-Trichlorobenzene-d8 | 2037-26-5  | 50.55         | 101 % | 81 - 117 |     | SPK: 50 |
| 1,4-Bromofluorobenzene    | 460-00-4   | 40.17         | 80 %  | 74 - 121 |     | SPK: 50 |
| 1,1,1-Trifluorobenzene    |            | 32.14         | 64 %  | 80 - 120 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 2024622       | 5.94  |          |     |         |
| 1,2-Difluorobenzene       | 540-36-3   | 2274066       | 7.72  |          |     |         |
| 1,3-Difluorobenzene       | 3114-55-4  | 1830061       | 13.94 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 1125715       | 19.45 |          |     |         |

**Volatiles**  
**SW-846**

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07

Client ID: 01075SP06S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA060807.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: YBA0608S2

Sample Wt/Wol: 2.5 Units: g

Soil Extract Vol: \_\_\_\_\_

Soil Aliquot Vol: \_\_\_\_\_

% Moisture: 14

| Parameter                | CAS Number  | Concentration | C | RDL  | MDL  | Units |
|--------------------------|-------------|---------------|---|------|------|-------|
| <b>TARGETS</b>           |             |               |   |      |      |       |
| Chloromethane            | 74-87-3     | < 4.0 U J     | U | 11.6 | 4.0  | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Bromomethane             | 74-83-9     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Chloroethane             | 75-00-3     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Acetone                  | 67-64-1     | 42 J          |   | 11.6 | 8.2  | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 3.0 U J     | U | 11.6 | 3.0  | ug/Kg |
| Methylene Chloride       | 75-09-2     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | 5.6 J         | J | 11.6 | 2.0  | ug/Kg |
| 2-Butanone               | 78-93-3     | < 12.6 U J    | U | 11.6 | 12.6 | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 4.8         | U | 11.6 | 4.8  | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| Chloroform               | 67-66-3     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Benzene                  | 71-43-2     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloroethane       | 107-06-2    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Trichloroethene          | 79-01-6     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloropropane      | 78-87-5     | < 1.84        | U | 11.6 | 1.84 | ug/Kg |
| Bromodichloromethane     | 75-27-4     | < 1.84        | U | 11.6 | 1.84 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 9.4         | U | 11.6 | 9.4  | ug/Kg |
| Toluene                  | 108-88-3    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| t-1,3-Dichloropropene    | 10061-02-6  | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| 1,1,2-Trichloroethane    | 79-00-5     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| 2-Hexanone               | 591-78-6    | < 14          | U | 11.6 | 14   | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| Tetrachloroethene        | 127-18-4    | < 2.8         | U | 11.6 | 2.8  | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Ethyl Benzene            | 100-41-4    | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| m&p-Xylenes              | 136777-61-2 | < 6.6         | U | 11.6 | 6.6  | ug/Kg |
| o-Xylene                 | 95-47-6     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Styrene                  | 100-42-5    | < 3.2         | U | 11.6 | 3.2  | ug/Kg |
| Bromoform                | 75-25-2     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |

**Volatiles**  
**SW-846**

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07

Client ID: 01075SP06S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VAA060807 D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: YBA0608S2

Sample Wt/Wol: 2.5 Units: G

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 14

| Parameter                 | CAS Number | Concentration | C     | RDL    | MDL | Units   |
|---------------------------|------------|---------------|-------|--------|-----|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 2.4 UJ      | U     | 11.6   | 2.4 | ug/Kg   |
| <b>SURROGATES</b>         |            |               |       |        |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 36.12         | 72 %  | 70-121 |     | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 49.22         | 98 %  | 80-120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 50.14         | 100 % | 81-117 |     | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 31.66         | 63 %  | 74-121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |        |     |         |
| Pentafluorobenzene        | 363-72-4   | 1673818       | 5.97  |        |     |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1797054       | 7.74  |        |     |         |
| Chlorobenzene-d5          | 3114-55-4  | 1288167       | 13.96 |        |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 610940        | 19.47 |        |     |         |

Volatiles  
SW-846

SDC No: P7891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07RE

Client ID: 010755SP06S02RE

Date Collected: 6/4/02

Date Analyzed: 6/10/02

File ID: V466109.D

Dilution: 1

Analytical Method: 8260

Sample Wt/Vol: 2.5

Soil Aliquot Vol: e

Date Received: 6/5/02

Matrix: SOIL

Analytical Run ID: MSVQAA

Instrument ID: MSVQAA

Associated Blank: VBA0610S2

Soil Extract Vol: 14

% Moisture: 14

Parameter CAS Number Concentration C RDL MDL Units

TARGETS

|                          |             |        |   |      |      |       |
|--------------------------|-------------|--------|---|------|------|-------|
| Chloromethane            | 74-87-3     | < 4.0  | U | 11.6 | 4.0  | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| Bromomethane             | 74-83-9     | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| Chloroethane             | 75-00-3     | < 3.0  | U | 11.6 | 3.0  | ug/Kg |
| 1,1-Dichloroethane       | 75-35-4     | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| Acetone                  | 67-64-1     | 72     | U | 11.6 | 8.2  | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 3.0  | U | 11.6 | 3.0  | ug/Kg |
| Methylene Chloride       | 75-09-2     | < 3.0  | U | 11.6 | 3.0  | ug/Kg |
| trans-1,2-Dichloroethane | 156-60-5    | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | 10.6   | J | 11.6 | 2.0  | ug/Kg |
| 2-Butanone               | 78-93-3     | < 12.6 | U | 11.6 | 12.6 | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 4.8  | U | 11.6 | 4.8  | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 2.0  | U | 11.6 | 2.0  | ug/Kg |
| Chloroform               | 67-66-3     | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| Benzene                  | 71-43-2     | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloroethane       | 107-06-2    | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| Trichloroethene          | 79-01-6     | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloropropane      | 78-87-5     | < 1.84 | U | 11.6 | 1.84 | ug/Kg |
| Bromodichloromethane     | 75-27-4     | < 1.84 | U | 11.6 | 1.84 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 9.4  | U | 11.6 | 9.4  | ug/Kg |
| Toluene                  | 108-88-3    | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| t-1,3-Dichloropropene    | 10061-02-6  | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 2.0  | U | 11.6 | 2.0  | ug/Kg |
| 1,1,2-Trichloroethane    | 79-00-5     | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| 2-Hexanone               | 591-78-6    | < 14   | U | 11.6 | 14   | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 2.0  | U | 11.6 | 2.0  | ug/Kg |
| Tetrachloroethene        | 127-18-4    | < 2.8  | U | 11.6 | 2.8  | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| Ethyl Benzene            | 100-41-4    | < 2.4  | U | 11.6 | 2.4  | ug/Kg |
| m,p-Xylenes              | 136777-61-2 | < 6.6  | U | 11.6 | 6.6  | ug/Kg |
| o-Xylene                 | 95-47-6     | < 2.6  | U | 11.6 | 2.6  | ug/Kg |
| Styrene                  | 100-42-5    | < 3.2  | U | 11.6 | 3.2  | ug/Kg |
| Bromoforn                | 75-25-2     | < 2.6  | U | 11.6 | 2.6  | ug/Kg |

**Volatiles**  
**SW-846**

**SDG No.: P2891**

**Client: Nelson, Pope & Voorhis, LLC**

**Sample ID: P2891-07RE**

**Client ID: 01075SP06S02RE**

**Date Collected: 6/4/02**

**Date Received: 6/5/02**

**Date Analyzed: 6/10/02**

**Matrix: SOIL**

**File ID: VA061009.D**

**Analytical Run ID: MSVOAA**

**Dilution: 1**

**Instrument ID: MSVOAA**

**Analytical Method: 8260**

**Associated Blank: YBA0610S2**

**Sample Wt/Wol: 2.5 Units: G**

**Soil Extract Vol:**

**Soil Aliquot Vol:**

**% Moisture: 14**

| Parameter                 | CAS Number | Concentration | C     | RDL    | MDL | Units   |
|---------------------------|------------|---------------|-------|--------|-----|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 2.4 UJ      | U     | 11.6   | 2.4 | ug/Kg   |
| <b>SURROGATES</b>         |            |               |       |        |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 45.91         | 92 %  | 70-121 |     | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 52.02         | 104 % | 80-120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 47.58         | 95 %  | 81-117 |     | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 31.56         | 63 %  | 74-121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |        |     |         |
| Pentafluorobenzene        | 363-72-4   | 1402214       | 5.91  |        |     |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1517309       | 7.72  |        |     |         |
| Chlorobenzene-d5          | 3114-55-4  | 1072616       | 13.93 |        |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 522633        | 19.44 |        |     |         |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-08

Client ID: 01075SP07S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060805.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0608S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol: 4

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| TARGETS                   |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.2 | 1.8  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.6         | U | 5.2 | 3.6  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,2-Dichloroethane        | 75-34-3     | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,2-Dichloroethane        | 107-06-2    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Butanone                  | 78-93-3     | < 5.6         | U | 5.2 | 5.6  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.2 | 2.2  | ug/Kg |
| 1,1-Dichloroethane        | 75-27-4     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1-Dichloroethene        | 79-01-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,2-Trichloroethane       | 79-00-5     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| trans-1,3-Dichloropropene | 10061-02-6  | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroform                | 75-25-2     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Methyl-2-Pentanone        | 108-10-1    | < 4.2         | U | 5.2 | 4.2  | ug/Kg |
| 2-Hexanone                | 591-78-6    | < 6.2         | U | 5.2 | 6.2  | ug/Kg |
| Tetrachloroethene         | 127-18-4    | < 1.2         | U | 5.2 | 1.2  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Styrene                   | 108-88-3    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Toluene                   | 100-42-5    | < 1.5         | U | 5.2 | 1.5  | ug/Kg |
| p-Xylenes                 | 136777-61-2 | < 2.9         | U | 5.2 | 2.9  | ug/Kg |

Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-08

Client ID: 01075SP07S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060805.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0608S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| Xylene                    | 95-47-6    | < 1.1         | 0     | 5.2      | 1.1 | ug/kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,1-Dichloroethane-d4     | 79-00-5    | 45.75         | 92 %  | 70 - 121 |     | SPK: 50 |
| 1,2-Dichlorobenzene-d8    | 2037-26-5  | 54.34         | 109 % | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 43.21         | 86 %  | 74 - 121 |     | SPK: 50 |
| Bromofluoromethane        |            | 54.29         | 109 % | 80 - 120 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 1783382       | 5.97  |          |     |         |
| 1,2-Difluorobenzene       | 540-36-3   | 1967610       | 7.74  |          |     |         |
| 1,2,3-Trichlorobenzene-d5 | 3114-55-4  | 1558786       | 13.99 |          |     |         |
| 1,1-Dichlorobenzene-d4    | 3855-82-1  | 970071        | 19.50 |          |     |         |



## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-09

Client ID: 01075SP08S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060806.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0608S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol: 4

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>            |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.2 | 1.8  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Ethylene Chloride         | 75-09-2     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.6         | U | 5.2 | 3.6  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,2-Dichloroethane        | 75-34-3     | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,2-Dichloroethane        | 107-06-2    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Butanone                  | 78-93-3     | < 5.6         | U | 5.2 | 5.6  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.2 | 2.2  | ug/Kg |
| 1,1-Dichloroethane        | 75-27-4     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.83        | U | 5.2 | 0.83 | ug/Kg |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,1-Dichloroethene        | 79-01-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Dibromochloromethane      | 124-48-1    | < 0.94        | U | 5.2 | 0.94 | ug/Kg |
| 1,2-Trichloroethane       | 79-00-5     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| trans-1,3-Dichloropropene | 10061-02-6  | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroform                | 75-25-2     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 2-Methyl-2-Pentanone      | 108-10-1    | < 4.2         | U | 5.2 | 4.2  | ug/Kg |
| 2-Hexanone                | 591-78-6    | < 6.2         | U | 5.2 | 6.2  | ug/Kg |
| 1,2-Dichloroethene        | 127-18-4    | < 1.2         | U | 5.2 | 1.2  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Toluene                   | 108-88-3    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Styrene                   | 100-42-5    | < 1.5         | U | 5.2 | 1.5  | ug/Kg |
| p-Xylenes                 | 136777-61-2 | < 2.9         | U | 5.2 | 2.9  | ug/Kg |

**Volatiles**

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-09

Client ID: 01075SP08S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/8/02

Matrix: SOIL

File ID: VA060806.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0608S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 4

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| Xylene                    | 95-47-6    | < 1.1         | 0     | 5.2      | 1.1 | ug/kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4     | 79-00-5    | 42.69         | 85 %  | 70 - 121 |     | SPK: 50 |
| luene-d8                  | 2037-26-5  | 48.45         | 97 %  | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 38.64         | 77 %  | 74 - 121 |     | SPK: 50 |
| 2-Bromofluoromethane      |            | 47.66         | 95 %  | 80 - 120 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 1952373       | 5.94  |          |     |         |
| 2,4-Difluorobenzene       | 540-36-3   | 2255619       | 7.74  |          |     |         |
| lorobenzene-d5            | 3114-55-4  | 1807106       | 13.96 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 1080842       | 19.47 |          |     |         |

## Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-10

Client ID: 01075FB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: WATER

File ID: VD061006.D

Analytical Run ID: MSVOAD

Dilution: 1

Instrument ID: MSVOAD

Analytical Method: 8260

Associated Blank: VBD0610W2

Sample Wt/Vol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C | RDL | MDL  | Units |
|---------------------------|------------|---------------|---|-----|------|-------|
| <b>RGETS</b>              |            |               |   |     |      |       |
| Chloromethane             | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane              | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Methyl chloride           | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane              | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride         | 75-09-2    | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                   | 67-64-1    | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Carbon disulfide          | 75-15-0    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene        | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane        | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene  | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene    | 156-59-2   | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform                | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1-Dichloroethane        | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| Butanone                  | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane     | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride      | 56-23-5    | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| 1,1-Dichloroethane        | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,2-Dichloropropane       | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,3-Dichloropropene       | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1-Dichloroethene        | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Dibromochloromethane      | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,2-Trichloroethane       | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                   | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene       | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Chloroform                | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone      | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                  | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene         | 127-18-4   | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Fluorene                  | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene             | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene             | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Pyrene                    | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| p-Xylenes                 | 1330-20-7  | < 1.5         | U | 5.0 | 1.5  | ug/L  |

Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-10

Client ID: 01075FB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: WATER

File ID: VD061006.D

Analytical Run ID: MSVOAD

Dilution: 1

Instrument ID: MSVOAD

Analytical Method: 8260

Associated Blank: VBD0610W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| Xylene                    | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| <b>SURROGATES</b>         |            |               |       |          |      |         |
| 1,2-Dichloroethane-d4     | 79-00-5    | 54.36         | 109 % | 68 - 135 |      | SPK: 50 |
| luene-d8                  | 2037-26-5  | 51.75         | 104 % | 70 - 125 |      | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 50.16         | 100 % | 70 - 125 |      | SPK: 50 |
| 2-bromofluoromethane      |            | 48.02         | 96 %  | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |      |         |
| Pentafluorobenzene        | 363-72-4   | 452800        | 12.88 |          |      |         |
| 1,2-Difluorobenzene       | 540-36-3   | 841564        | 15.27 |          |      |         |
| 1,3-Difluorobenzene-d5    | 3114-55-4  | 761238        | 22.82 |          |      |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 320187        | 29.21 |          |      |         |

Volatiles

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-11

Client ID: 01075TB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/11/02

Matrix: WATER

File ID: VD061105.D

Analytical Run ID: MSVOAD

Dilution: 1

Instrument ID: MSVOAD

Analytical Method: 8260

Associated Blank: VBD0611W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C | RDL | MDL  | Units |
|---------------------------|------------|---------------|---|-----|------|-------|
| ARGETS                    |            |               |   |     |      |       |
| Chloromethane             | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| omomethane                | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| yl chloride               | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane              | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| ethylene Chloride         | 75-09-2    | 1.9           | J | 5.0 | 1.8  | ug/L  |
| etone                     | 67-64-1    | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Carbon disulfide          | 75-15-0    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Dichloroethene            | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane        | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| rans-1,2-Dichloroethene   | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| 1,2-Dichloroethene        | 156-59-2   | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| chloroform                | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 2-Dichloroethane          | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| utanone                   | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane     | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| arbon Tetrachloride       | 56-23-5    | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| omodichloromethane        | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,2-Dichloropropane       | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,1,3-Dichloropropene     | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| chloroethene              | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Dibromochloromethane      | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,2-Trichloroethane       | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                   | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene       | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| omoform                   | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone      | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| 2-Hexanone                | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| trachloroethene           | 127-18-4   | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| oluene                    | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| lorobenzene               | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene             | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| ylene                     | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| p-Xylenes                 | 1330-20-7  | < 1.5         | U | 5.0 | 1.5  | ug/L  |

**Volatiles**

SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-11

Client ID: 01075TB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/11/02

Matrix: WATER

File ID: VD061105.D

Analytical Run ID: MSVOAD

Dilution: 1

Instrument ID: MSVOAD

Analytical Method: 8260

Associated Blank: VBD0611W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter | CAS Number | Concentration | C  | RDL | MDL  | Units |
|-----------|------------|---------------|----|-----|------|-------|
| Xylene    | 95-47-6    | < 0.72        | U. | 5.0 | 0.72 | ug/L  |

**SURROGATES**

|                               |           |       |       |          |  |         |
|-------------------------------|-----------|-------|-------|----------|--|---------|
| 1,1-Dichloroethane-d4         | 79-00-5   | 45.23 | 90 %  | 68 - 135 |  | SPK: 50 |
| 1,2,3,4-Tetrafluorobenzene-d8 | 2037-26-5 | 50.87 | 102 % | 70 - 125 |  | SPK: 50 |
| 1,4-Dibromofluorobenzene      | 460-00-4  | 48.48 | 97 %  | 70 - 125 |  | SPK: 50 |
| 1,2-Dibromofluoromethane      |           | 54.67 | 109 % | 70 - 125 |  | SPK: 50 |

**INTERNAL STANDARDS**

|                               |           |        |       |  |  |  |
|-------------------------------|-----------|--------|-------|--|--|--|
| Pentafluorobenzene            | 363-72-4  | 496066 | 12.91 |  |  |  |
| 1,2-Difluorobenzene           | 540-36-3  | 829212 | 15.28 |  |  |  |
| 1,2,3,4-Tetrafluorobenzene-d5 | 3114-55-4 | 747434 | 22.84 |  |  |  |
| 1,4-Dichlorobenzene-d4        | 3855-82-1 | 305336 | 29.23 |  |  |  |

**IDENTITATIVE IDENTIFIED COMPOUNDS**

|              |         |    |  |      |  |      |
|--------------|---------|----|--|------|--|------|
| Column Bleed | 1066406 | 23 |  | 9.58 |  | ug/L |
|--------------|---------|----|--|------|--|------|

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01

Client ID: 01075SP01S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001649.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

## TARGETS

|                             |       |   |     |     |       |
|-----------------------------|-------|---|-----|-----|-------|
| Phenol                      | < 39  | U | 390 | 39  | ug/Kg |
| (2-Chloroethyl)ether        | < 46  | U | 390 | 46  | ug/Kg |
| 2-Chlorophenol              | < 43  | U | 390 | 43  | ug/Kg |
| 1,2-Dichlorobenzene         | < 39  | U | 390 | 39  | ug/Kg |
| 1,3-Dichlorobenzene         | < 46  | U | 390 | 46  | ug/Kg |
| 1,4-Dichlorobenzene         | < 39  | U | 390 | 39  | ug/Kg |
| 2-Methylphenol              | < 39  | U | 390 | 39  | ug/Kg |
| 1,2-oxobis(1-chloropropane) | < 39  | U | 390 | 39  | ug/Kg |
| 2,4-Methylphenols           | < 70  | U | 390 | 70  | ug/Kg |
| Nitroso-di-n-propylamine    | < 39  | U | 390 | 39  | ug/Kg |
| Hexachloroethane            | < 43  | U | 390 | 43  | ug/Kg |
| Chlorobenzene               | < 39  | U | 390 | 39  | ug/Kg |
| Phorone                     | < 39  | U | 390 | 39  | ug/Kg |
| 2-Nitrophenol               | < 43  | U | 390 | 43  | ug/Kg |
| 2,4-Dimethylphenol          | < 89  | U | 390 | 89  | ug/Kg |
| (2-Chloroethoxy)methane     | < 39  | U | 390 | 39  | ug/Kg |
| 2,4-Dichlorophenol          | < 50  | U | 390 | 50  | ug/Kg |
| 1,2,4-Trichlorobenzene      | < 46  | U | 390 | 46  | ug/Kg |
| Phthalene                   | 100   | J | 390 | 46  | ug/Kg |
| 4-Chloroaniline             | < 46  | U | 390 | 46  | ug/Kg |
| 1,2-Dichlorobutadiene       | < 58  | U | 390 | 58  | ug/Kg |
| 4-Chloro-3-methylphenol     | < 43  | U | 390 | 43  | ug/Kg |
| 2-Methylnaphthalene         | 740   | U | 390 | 46  | ug/Kg |
| 1,2-Dichlorocyclopentadiene | < 150 | U | 390 | 150 | ug/Kg |
| 2,4,6-Trichlorophenol       | < 39  | U | 390 | 39  | ug/Kg |
| 1,2,5-Trichlorophenol       | < 39  | U | 980 | 39  | ug/Kg |
| Chloronaphthalene           | < 46  | U | 390 | 46  | ug/Kg |
| 1-Nitroaniline              | < 39  | U | 980 | 39  | ug/Kg |
| 1-Methylnaphthalene         | < 39  | U | 390 | 39  | ug/Kg |
| 1-Naphthylene               | 170   | J | 390 | 46  | ug/Kg |
| 1,6-Dinitrotoluene          | < 39  | U | 390 | 39  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01

Client ID: 01075SP01S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001649.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C   | RDL | MDL | Units |
|----------------------------|---------------|-----|-----|-----|-------|
| TARGETS                    |               |     |     |     |       |
| Nitroaniline               | < 46          | U   | 980 | 46  | ug/Kg |
| Benaphthene                | 2200          |     | 390 | 46  | ug/Kg |
| 2,4-Dinitrophenol          | < 78          | U J | 980 | 78  | ug/Kg |
| Nitrophenol                | 950           | J   | 980 | 43  | ug/Kg |
| Benzo(furan)               | 1500          |     | 390 | 39  | ug/Kg |
| 2,4-Dinitrotoluene         | < 43          | U   | 390 | 43  | ug/Kg |
| Diethylphthalate           | < 39          | U   | 390 | 39  | ug/Kg |
| Chlorophenyl-phenylether   | < 46          | U J | 390 | 46  | ug/Kg |
| Fluorene                   | 3000          | J   | 390 | 43  | ug/Kg |
| Nitroaniline               | < 93          | U   | 980 | 93  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 46          | U   | 980 | 46  | ug/Kg |
| N-Nitrosodiphenylamine     | < 78          | U   | 390 | 78  | ug/Kg |
| Bromophenyl-phenylether    | < 50          | U   | 390 | 50  | ug/Kg |
| Hexachlorobenzene          | < 43          | U   | 390 | 43  | ug/Kg |
| 2,4-Dichlorophenol         | < 74          | U   | 980 | 74  | ug/Kg |
| Benanthrene                | 13000         | E   | 390 | 39  | ug/Kg |
| Anthracene                 | 2900          |     | 390 | 50  | ug/Kg |
| Benzazole                  | 3900          | E   | 390 | 16  | ug/Kg |
| n-butylphthalate           | < 46          | U   | 390 | 46  | ug/Kg |
| Fluoranthene               | 12000         | E   | 390 | 39  | ug/Kg |
| Benzo(e)pyrene             | 22000         | J   | 390 | 39  | ug/Kg |
| Diethylbenzylphthalate     | 210           | J   | 390 | 39  | ug/Kg |
| 3,3'-Dichlorobenzidine     | < 39          | U J | 390 | 39  | ug/Kg |
| Benzo(a)anthracene         | 16000         | J   | 390 | 39  | ug/Kg |
| Chrysene                   | 16000         | E   | 390 | 62  | ug/Kg |
| Di-(2-Ethylhexyl)phthalate | 1200          | B   | 390 | 39  | ug/Kg |
| n-octyl phthalate          | 240           | J   | 390 | 58  | ug/Kg |
| Benzo(b)fluoranthene       | 14000         | E   | 390 | 39  | ug/Kg |
| Benzo(k)fluoranthene       | 6300          | J   | 390 | 100 | ug/Kg |
| Benzo(a)pyrene             | 10000         | J   | 390 | 58  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 4100          | J   | 390 | 62  | ug/Kg |



## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01

Client ID: 01075SP01S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001649.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                              | Concentration   | C     | RDL      | MDL | Units    |
|----------------------------------------|-----------------|-------|----------|-----|----------|
| <b>TARGETS</b>                         |                 |       |          |     |          |
| benz(a,h)anthracene                    | 510 J           |       | 390      | 59  | ug/Kg    |
| benzo(g,h,i)perylene                   | 5000 J          | E     | 390      | 50  | ug/Kg    |
| <b>PROXIMATES</b>                      |                 |       |          |     |          |
| Fluorophenol                           | 149.17          | 50 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                              | 183.81          | 61 %  | 24 - 113 |     | SPK: 300 |
| Probenzene-d5                          | 125.83          | 63 %  | 23 - 120 |     | SPK: 200 |
| Fluorobiphenyl                         | 138.6           | 69 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                   | 144.09          | 48 %  | 19 - 122 |     | SPK: 300 |
| Phenyl-d14                             | 198.05          | 99 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>              |                 |       |          |     |          |
| Dichlorobenzene-d4                     | 88928           | 6.89  |          |     |          |
| Phthalene-d8                           | 316730          | 9.08  |          |     |          |
| Acenaphthene-d10                       | 154560          | 12.32 |          |     |          |
| Benanthrene-d10                        | 173869          | 15.07 |          |     |          |
| Chrysene-d12                           | 49840           | 20.10 |          |     |          |
| Perylene-d12                           | 49545           | 22.92 |          |     |          |
| <b>INITIATIVE IDENTIFIED COMPOUNDS</b> |                 |       |          |     |          |
| Hexanal                                | 1300            | J     | 3.99     |     | ug/Kg    |
| 2-P                                    | <del>8600</del> | ND    | 4.62     |     | ug/Kg    |
| 2,12-Naphthacenedione                  | 860             | J     | 21.44    |     | ug/Kg    |
| 4,5,11,12-Tetrahydrobenzo[A]pyrene     | 1500            | J     | 21.55    |     | ug/Kg    |
| benz[a]anthracene, 7,12-dimethyl-      | 1500            | J     | 21.62    |     | ug/Kg    |
| 2,6,10-Dodecatrien-1-ol, 3,7,11-tri    | 2100            | J     | 21.68    |     | ug/Kg    |
| 5-Biazulenyl                           | 2500            | J     | 21.77    |     | ug/Kg    |
| Unknown                                | 1800            | J     | 21.86    |     | ug/Kg    |
| Hexadecane                             | 2800            | J     | 22.02    |     | ug/Kg    |
| benzene, 1,1-(1-ethyl-1,2-ethenedi     | 1200            | J     | 22.23    |     | ug/Kg    |
| benzo[j]fluoranthene                   | 1400            | J     | 22.29    |     | ug/Kg    |
| Dasycarpidan-1-one                     | 1000            | J     | 22.38    |     | ug/Kg    |
| 1-Benzopyran-4-one, 5-hydroxy          | 1600            | J     | 22.47    |     | ug/Kg    |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01

Client ID: 01075SP01S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001649.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Vol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

## IDENTIFIED COMPOUNDS

|                                 |      |   |       |  |       |
|---------------------------------|------|---|-------|--|-------|
| Binaphthalene                   | 2100 | J | 22.56 |  | ug/Kg |
| z[e]acephenanthrylene           | 4100 | J | 22.69 |  | ug/Kg |
| Benz[j]aceanthrylene, 3-methyl- | 1100 | J | 23.13 |  | ug/Kg |
| zo[1,2-b:4,3-b]dithiophene, 1-p | 1400 | J | 23.27 |  | ug/Kg |
| Dihydro-7-methyl-5-phenyl-1H    | 1200 | J | 23.40 |  | ug/Kg |
| Heneicosane                     | 1400 | J | 23.54 |  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01DL

Client ID: 01075SP01S02 DL

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001929.D

Dilution: 10

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                      | Concentration | C  | RDL  | MDL  | Units |
|--------------------------------|---------------|----|------|------|-------|
| <b>TARGETS</b>                 |               |    |      |      |       |
| Phenol                         | < 390         | U  | 3900 | 390  | ug/Kg |
| 1,2-Dichloroethyl ether        | < 460         | U  | 3900 | 460  | ug/Kg |
| 2-Chlorophenol                 | < 430         | U  | 3900 | 430  | ug/Kg |
| 1,2-Dichlorobenzene            | < 390         | U  | 3900 | 390  | ug/Kg |
| 1,3-Dichlorobenzene            | < 460         | U  | 3900 | 460  | ug/Kg |
| 1,4-Dichlorobenzene            | < 390         | U  | 3900 | 390  | ug/Kg |
| 4-Methylphenol                 | < 390         | U  | 3900 | 390  | ug/Kg |
| 1,2-Epoxybis(1-chloropropane)  | < 390         | U  | 3900 | 390  | ug/Kg |
| 4-Methylphenols                | < 700         | U  | 3900 | 700  | ug/Kg |
| Nitroso-di-n-propylamine       | < 390         | U  | 3900 | 390  | ug/Kg |
| Hexachloroethane               | < 430         | U  | 3900 | 430  | ug/Kg |
| Chlorobenzene                  | < 390         | U  | 3900 | 390  | ug/Kg |
| Phorone                        | < 390         | U  | 3900 | 390  | ug/Kg |
| 2-Nitrophenol                  | < 430         | U  | 3900 | 430  | ug/Kg |
| 2,4-Dimethylphenol             | < 890         | U  | 3900 | 890  | ug/Kg |
| 1,2-Bis(2-Chloroethoxy)methane | < 390         | U  | 3900 | 390  | ug/Kg |
| 2,4-Dichlorophenol             | < 500         | U  | 3900 | 500  | ug/Kg |
| 1,2,4-Trichlorobenzene         | < 460         | U  | 3900 | 460  | ug/Kg |
| 1-Naphthalene                  | < 460         | U  | 3900 | 460  | ug/Kg |
| 4-Chloroaniline                | < 460         | U  | 3900 | 460  | ug/Kg |
| 1,2-Dichlorobutadiene          | < 580         | U  | 3900 | 580  | ug/Kg |
| 4-Chloro-3-methylphenol        | < 430         | U  | 3900 | 430  | ug/Kg |
| 1-Methylnaphthalene            | 630           | JD | 3900 | 460  | ug/Kg |
| 1,2-Dichlorocyclopentadiene    | < 1500        | U  | 3900 | 1500 | ug/Kg |
| 2,4,6-Trichlorophenol          | < 390         | U  | 3900 | 390  | ug/Kg |
| 1,3,5-Trichlorophenol          | < 390         | U  | 9800 | 390  | ug/Kg |
| 1-Chloronaphthalene            | < 460         | U  | 3900 | 460  | ug/Kg |
| 2-Nitroaniline                 | < 390         | U  | 9800 | 390  | ug/Kg |
| 1-Methylphthalate              | < 390         | U  | 3900 | 390  | ug/Kg |
| Acenaphthylene                 | < 460         | U  | 3900 | 460  | ug/Kg |
| 2,6-Dinitrotoluene             | < 390         | U  | 3900 | 390  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01DL

Client ID: 01075SP01S02 DL

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001929.D

Dilution: 10

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Vol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                  | Concentration       | C             | RDL  | MDL  | Units |
|----------------------------|---------------------|---------------|------|------|-------|
| <b>TARGETS</b>             |                     |               |      |      |       |
| Nitroaniline               | < 460               | U             | 9800 | 460  | ug/Kg |
| Acenaphthene               | 3500                | JD            | 3900 | 460  | ug/Kg |
| 2,4-Dinitrophenol          | < 780               | U             | 9800 | 780  | ug/Kg |
| Nitrophenol                | < 430               | U             | 9800 | 430  | ug/Kg |
| Benzofuran                 | 2000                | JD            | 3900 | 390  | ug/Kg |
| 2,4-Dinitrotoluene         | < 430               | U             | 3900 | 430  | ug/Kg |
| Diethylphthalate           | < 390               | U             | 3900 | 390  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 460               | U             | 3900 | 460  | ug/Kg |
| Borene                     | 4300                | D             | 3900 | 430  | ug/Kg |
| Nitroaniline               | < 930               | U             | 9800 | 930  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 460               | U             | 9800 | 460  | ug/Kg |
| Nitrosodiphenylamine       | < 780               | U             | 3900 | 780  | ug/Kg |
| Bromophenyl-phenylether    | < 500               | U             | 3900 | 500  | ug/Kg |
| Hexachlorobenzene          | < 430               | U             | 3900 | 430  | ug/Kg |
| 2,4-Dichlorophenol         | < 740               | U             | 9800 | 740  | ug/Kg |
| Benanthrene                | 38000               | ED            | 3900 | 390  | ug/Kg |
| Anthracene                 | 6500                | D             | 3900 | 500  | ug/Kg |
| Benzazole                  | 5600                | D             | 3900 | 160  | ug/Kg |
| Di-n-butylphthalate        | < 460               | U             | 3900 | 460  | ug/Kg |
| Fluoranthene               | 53000               | ED            | 3900 | 390  | ug/Kg |
| Benzene                    | 47000               | ED            | 3900 | 390  | ug/Kg |
| Butylbenzylphthalate       | < 390               | U             | 3900 | 390  | ug/Kg |
| 2,2'-Dichlorobenzidine     | < 390               | U             | 3900 | 390  | ug/Kg |
| Benz(a)anthracene          | 18000               | D             | 3900 | 390  | ug/Kg |
| Chrysene                   | 30000               | D             | 3900 | 620  | ug/Kg |
| (2-Ethylhexyl)phthalate    | 3900 <sup>550</sup> | <del>JD</del> | 3900 | 390  | ug/Kg |
| n-octyl phthalate          | < 580               | U             | 3900 | 580  | ug/Kg |
| Benzo(b)fluoranthene       | 71000 J             | ED            | 3900 | 390  | ug/Kg |
| Benz(k)fluoranthene        | 16000 J             | D             | 3900 | 1000 | ug/Kg |
| Benzo(a)pyrene             | 36000 J             | ED            | 3900 | 580  | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 1300                | JD            | 3900 | 620  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01DL

Client ID: 01075SP01S02 DL

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001929.D

Dilution: 10

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                 | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |               |       |          |     |          |
| 1 benz(a,h)anthracene     | < 590         | U J U | 3900     | 590 | ug/Kg    |
| Benzo(g,h,i)perylene      | 2700          | J JD  | 3900     | 500 | ug/Kg    |
| <b>PROGATES</b>           |               |       |          |     |          |
| 2,4-difluorophenol        | 277           | 92 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                 | 296           | 99 %  | 24 - 113 |     | SPK: 300 |
| robenzene-d5              | 197           | 99 %  | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl          | 236           | 118 % | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol      | 314           | 105 % | 19 - 122 |     | SPK: 300 |
| phenyl-d14                | 165           | 83 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |               |       |          |     |          |
| -Dichlorobenzene-d4       | 157219        | 4.95  |          |     |          |
| phthalene-d8              | 664760        | 7.44  |          |     |          |
| enaphthene-d10            | 354453        | 11.29 |          |     |          |
| enanthrene-d10            | 606188        | 14.65 |          |     |          |
| Chrysene-d12              | 441189        | 20.75 |          |     |          |
| ylene-d12                 | 132985        | 23.82 |          |     |          |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01DL1

Client ID: 01075SP01S02 DL1

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001928.D

Dilution: 50

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL   | MDL  | Units |
|------------------------------|---------------|---|-------|------|-------|
| <b>TARGETS</b>               |               |   |       |      |       |
| Phenol                       | < 1900        | U | 19000 | 1900 | ug/Kg |
| bis(2-Chloroethyl)ether      | < 2300        | U | 19000 | 2300 | ug/Kg |
| 2-Chlorophenol               | < 2100        | U | 19000 | 2100 | ug/Kg |
| 1,2-Dichlorobenzene          | < 1900        | U | 19000 | 1900 | ug/Kg |
| 1,3-Dichlorobenzene          | < 2300        | U | 19000 | 2300 | ug/Kg |
| 1,4-Dichlorobenzene          | < 1900        | U | 19000 | 1900 | ug/Kg |
| 4-Methylphenol               | < 1900        | U | 19000 | 1900 | ug/Kg |
| 2,2'-oxybis(1-chloropropane) | < 1900        | U | 19000 | 1900 | ug/Kg |
| 4-Methylphenols              | < 3500        | U | 19000 | 3500 | ug/Kg |
| Nitroso-di-n-propylamine     | < 1900        | U | 19000 | 1900 | ug/Kg |
| Hexachloroethane             | < 2100        | U | 19000 | 2100 | ug/Kg |
| Chlorobenzene                | < 1900        | U | 19000 | 1900 | ug/Kg |
| Chlorophorone                | < 1900        | U | 19000 | 1900 | ug/Kg |
| 2-Nitrophenol                | < 2100        | U | 19000 | 2100 | ug/Kg |
| 1,2-Dimethylphenol           | < 4500        | U | 19000 | 4500 | ug/Kg |
| bis(2-Chloroethoxy)methane   | < 1900        | U | 19000 | 1900 | ug/Kg |
| 2,4-Dichlorophenol           | < 2500        | U | 19000 | 2500 | ug/Kg |
| 1,2,4-Trichlorobenzene       | < 2300        | U | 19000 | 2300 | ug/Kg |
| Naphthalene                  | < 2300        | U | 19000 | 2300 | ug/Kg |
| Chloroaniline                | < 2300        | U | 19000 | 2300 | ug/Kg |
| Hexachlorobutadiene          | < 2900        | U | 19000 | 2900 | ug/Kg |
| 4-Chloro-3-methylphenol      | < 2100        | U | 19000 | 2100 | ug/Kg |
| 1-Methylnaphthalene          | < 2300        | U | 19000 | 2300 | ug/Kg |
| Hexachlorocyclopentadiene    | < 7400        | U | 19000 | 7400 | ug/Kg |
| 2,4,6-Trichlorophenol        | < 1900        | U | 19000 | 1900 | ug/Kg |
| 1,3,5-Trichlorophenol        | < 1900        | U | 49000 | 1900 | ug/Kg |
| 2-Chloronaphthalene          | < 2300        | U | 19000 | 2300 | ug/Kg |
| 2-Nitroaniline               | < 1900        | U | 49000 | 1900 | ug/Kg |
| Dimethylphthalate            | < 1900        | U | 19000 | 1900 | ug/Kg |
| Acenaphthylene               | < 2300        | U | 19000 | 2300 | ug/Kg |
| 1,3-Dinitrotoluene           | < 1900        | U | 19000 | 1900 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |              |                    |                  |
|--------------------|--------------|--------------------|------------------|
| Sample ID:         | P2891-01DL1  | Client ID:         | 01075SP01S02 DL1 |
| Date Collected:    | 6/4/02       | Date Received:     | 6/5/02           |
| Date Analyzed:     | 6/17/02      | Matrix:            | SOIL             |
| Date Extracted:    | 6/6/02       | File ID:           | BB001928.D       |
| Dilution:          | 50           | Instrument ID:     | 5971B            |
| Analytical Method: | 8270         | Analytical Run ID: | 1                |
| Sample Wt/Wol:     | 30.4         | Extract Vol:       | 1000             |
| Injection Vol:     | 2            | % Moisture:        | 16               |
| Associated Blank:  | PB060602-01B |                    |                  |

| Parameter                  | Concentration | C | RDL   | MDL  | Units |
|----------------------------|---------------|---|-------|------|-------|
| <b>TARGETS</b>             |               |   |       |      |       |
| Nitroaniline               | < 2300        | U | 49000 | 2300 | ug/Kg |
| Benaphthene                | 3600          | J | 19000 | 2300 | ug/Kg |
| 2,4-Dinitrophenol          | < 3900        | U | 49000 | 3900 | ug/Kg |
| Nitrophenol                | < 2100        | U | 49000 | 2100 | ug/Kg |
| Benzenofuran               | 2000          | J | 19000 | 1900 | ug/Kg |
| 2,4-Dinitrotoluene         | < 2100        | U | 19000 | 2100 | ug/Kg |
| Diethylphthalate           | < 1900        | U | 19000 | 1900 | ug/Kg |
| 4-Chlorophenyl-phenylether | < 2300        | U | 19000 | 2300 | ug/Kg |
| Fluorene                   | 4600          | J | 19000 | 2100 | ug/Kg |
| Nitroaniline               | < 4700        | U | 49000 | 4700 | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 2300        | U | 49000 | 2300 | ug/Kg |
| Nitrosodiphenylamine       | < 3900        | U | 19000 | 3900 | ug/Kg |
| Bromophenyl-phenylether    | < 2500        | U | 19000 | 2500 | ug/Kg |
| Hexachlorobenzene          | < 2100        | U | 19000 | 2100 | ug/Kg |
| Trichlorophenol            | < 3700        | U | 49000 | 3700 | ug/Kg |
| Benanthrene                | 47000         |   | 19000 | 1900 | ug/Kg |
| Anthracene                 | 6500          | J | 19000 | 2500 | ug/Kg |
| Benzazole                  | 5700          | J | 19000 | 790  | ug/Kg |
| n-butylphthalate           | < 2300        | U | 19000 | 2300 | ug/Kg |
| Fluoranthene               | 65000         |   | 19000 | 1900 | ug/Kg |
| Benene                     | 53000         |   | 19000 | 1900 | ug/Kg |
| Butylbenzylphthalate       | < 1900        | U | 19000 | 1900 | ug/Kg |
| 2,2-Dichlorobenzidine      | < 1900        | U | 19000 | 1900 | ug/Kg |
| Benzo(a)anthracene         | 17000         | J | 19000 | 1900 | ug/Kg |
| Chrysene                   | 26000         |   | 19000 | 3100 | ug/Kg |
| 2-Ethylhexylphthalate      | < 1900        | U | 19000 | 1900 | ug/Kg |
| n-octyl phthalate          | < 2900        | U | 19000 | 2900 | ug/Kg |
| Benzo(b)fluoranthene       | 27000         |   | 19000 | 1900 | ug/Kg |
| Benzo(k)fluoranthene       | 8200 兹丁       | J | 19000 | 5000 | ug/Kg |
| Benzo(a)pyrene             | 18000         | J | 19000 | 2900 | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 6300          | J | 19000 | 3100 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-01DL1

Client ID: 01075SP01S02 DL1

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001928.D

Dilution: 50

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060602-01B

| Parameter                 | Concentration | C     | RDL      | MDL  | Units    |
|---------------------------|---------------|-------|----------|------|----------|
| <b>TARGETS</b>            |               |       |          |      |          |
| ibenz(a,h)anthracene      | < 2900        | U     | 19000    | 2900 | ug/Kg    |
| Benzo(g,h,i)perylene      | 9800          | J     | 19000    | 2500 | ug/Kg    |
| <b>URROGATES</b>          |               |       |          |      |          |
| 2-Fluorophenol            | 262           | 88 %  | 25 - 121 |      | SPK: 300 |
| Phenol-d5                 | 299           | 100 % | 24 - 113 |      | SPK: 300 |
| Nitrobenzene-d5           | 193           | 97 %  | 23 - 120 |      | SPK: 200 |
| 2-Fluorobiphenyl          | 238           | 119 % | 30 - 116 |      | SPK: 200 |
| 4,6-Tribromophenol        | 275           | 92 %  | 19 - 122 |      | SPK: 300 |
| erphenyl-d14              | 168           | 84 %  | 18 - 137 |      | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |               |       |          |      |          |
| 4-Dichlorobenzene-d4      | 165775        | 4.95  |          |      |          |
| Naphthalene-d8            | 716408        | 7.44  |          |      |          |
| acenaphthene-d10          | 378904        | 11.29 |          |      |          |
| henanthrene-d10           | 646486        | 14.65 |          |      |          |
| Chrysene-d12              | 531912        | 20.73 |          |      |          |
| erylene-d12               | 369417        | 23.78 |          |      |          |



## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-02

Client ID: 01075SP01S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001645.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.3

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>               |               |   |     |     |       |
| benzene                      | < 34          | U | 340 | 34  | ug/Kg |
| bis(2-Chloroethyl)ether      | < 40          | U | 340 | 40  | ug/Kg |
| 2-Chlorophenol               | < 37          | U | 340 | 37  | ug/Kg |
| 1,2-Dichlorobenzene          | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene          | < 40          | U | 340 | 40  | ug/Kg |
| 1,4-Dichlorobenzene          | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol           | < 34          | U | 340 | 34  | ug/Kg |
| 2,2'-oxybis(1-chloropropane) | < 34          | U | 340 | 34  | ug/Kg |
| 4-Methylphenols              | < 61          | U | 340 | 61  | ug/Kg |
| Nitroso-di-n-propylamine     | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane             | < 37          | U | 340 | 37  | ug/Kg |
| Styrene                      | < 34          | U | 340 | 34  | ug/Kg |
| Phorone                      | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol                | < 37          | U | 340 | 37  | ug/Kg |
| 2,4-Dimethylphenol           | < 78          | U | 340 | 78  | ug/Kg |
| bis(2-Chloroethoxy)methane   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol           | < 44          | U | 340 | 44  | ug/Kg |
| 1,2,4-Trichlorobenzene       | < 40          | U | 340 | 40  | ug/Kg |
| Naphthalene                  | < 40          | U | 340 | 40  | ug/Kg |
| Chloroaniline                | < 40          | U | 340 | 40  | ug/Kg |
| 1,2-Dichlorobutadiene        | < 51          | U | 340 | 51  | ug/Kg |
| 4-Chloro-3-methylphenol      | < 37          | U | 340 | 37  | ug/Kg |
| 1-Methylnaphthalene          | < 40          | U | 340 | 40  | ug/Kg |
| 1,2-Dichlorocyclopentadiene  | < 130         | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol        | < 34          | U | 340 | 34  | ug/Kg |
| 2,5-Trichlorophenol          | < 34          | U | 860 | 34  | ug/Kg |
| 1-Chloronaphthalene          | < 40          | U | 340 | 40  | ug/Kg |
| 2-Nitroaniline               | < 34          | U | 860 | 34  | ug/Kg |
| 1-Methylphthalate            | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene               | < 40          | U | 340 | 40  | ug/Kg |
| 1,3-Dinitrotoluene           | < 34          | U | 340 | 34  | ug/Kg |

SVOC-TCL BNA  
SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-02

Client ID: 01075SP01S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001645.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.3

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

TARGETS

|                            |         |               |     |    |       |
|----------------------------|---------|---------------|-----|----|-------|
| 4-Aminodiphenylamine       | < 40    | U             | 860 | 40 | ug/Kg |
| Acenaphthene               | < 40    | U             | 340 | 40 | ug/Kg |
| 2,4-Dinitrophenol          | < 68 UJ | U             | 860 | 68 | ug/Kg |
| 4-Nitrophenol              | < 37    | U             | 860 | 37 | ug/Kg |
| Dibenzofuran               | < 34    | U             | 340 | 34 | ug/Kg |
| 2,4-Dinitrotoluene         | < 37    | U             | 340 | 37 | ug/Kg |
| Diethylphthalate           | < 34    | U             | 340 | 34 | ug/Kg |
| 4-Chlorophenyl-phenylether | < 40 UJ | U             | 340 | 40 | ug/Kg |
| Fluorene                   | < 37 UJ | U             | 340 | 37 | ug/Kg |
| 4-Aminodiphenylamine       | < 82    | U             | 860 | 82 | ug/Kg |
| 2,6-Dinitro-2-methylphenol | < 40    | U             | 860 | 40 | ug/Kg |
| 4-Nitrosodiphenylamine     | < 68    | U             | 340 | 68 | ug/Kg |
| 4-Nitrophenyl-phenylether  | < 44    | U             | 340 | 44 | ug/Kg |
| Hexachlorobenzene          | < 37    | U             | 340 | 37 | ug/Kg |
| 4-Chlorophenol             | < 65    | U             | 860 | 65 | ug/Kg |
| Phenanthrene               | 160     | J             | 340 | 34 | ug/Kg |
| Anthracene                 | < 44    | U             | 340 | 44 | ug/Kg |
| Imidazole                  | < 14    | U             | 340 | 14 | ug/Kg |
| Di-n-butylphthalate        | < 40    | U             | 340 | 40 | ug/Kg |
| Fluoranthene               | 320     | J             | 340 | 34 | ug/Kg |
| Pyrene                     | 200     | J             | 340 | 34 | ug/Kg |
| Butylbenzylphthalate       | < 34    | U             | 340 | 34 | ug/Kg |
| Dichlorobenzidine          | < 34    | U             | 340 | 34 | ug/Kg |
| Benzo(a)anthracene         | 67      | J             | 340 | 34 | ug/Kg |
| Chrysene                   | 190     | J             | 340 | 54 | ug/Kg |
| 2-Ethylhexylphthalate      | 78 U    | <del>JB</del> | 340 | 34 | ug/Kg |
| Di-octyl phthalate         | < 51    | U             | 340 | 51 | ug/Kg |
| Benzo(b)fluoranthene       | 150     | J             | 340 | 34 | ug/Kg |
| Benzo(k)fluoranthene       | 180 J   | J             | 340 | 88 | ug/Kg |
| Benzo(a)pyrene             | 120     | J             | 340 | 51 | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 62      | J             | 340 | 54 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-02

Client ID: 01075SP01S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001645.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.3

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                           | Concentration | C     | RDL      | MDL | Units    |
|-------------------------------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                      |               |       |          |     |          |
| benz(a,h)anthracene                 | < 51          | U     | 340      | 51  | ug/Kg    |
| benzo(g,h,i)perylene                | 100           | J     | 340      | 44  | ug/Kg    |
| <b>PROXIMATES</b>                   |               |       |          |     |          |
| 2-fluorophenol                      | 140.23        | 47 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                           | 167.28        | 56 %  | 24 - 113 |     | SPK: 300 |
| 1,2-dibromobenzene-d5               | 109.89        | 55 %  | 23 - 120 |     | SPK: 200 |
| 2-fluorobiphenyl                    | 126.14        | 63 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                | 146.68        | 49 %  | 19 - 122 |     | SPK: 300 |
| 1-phenyl-d14                        | 82.3          | 41 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>           |               |       |          |     |          |
| 1,2-Dichlorobenzene-d4              | 75755         | 6.89  |          |     |          |
| 1-phthalene-d8                      | 280574        | 9.08  |          |     |          |
| Acenaphthene-d10                    | 156912        | 12.31 |          |     |          |
| 1-anthrene-d10                      | 273021        | 15.05 |          |     |          |
| Chrysene-d12                        | 220276        | 20.02 |          |     |          |
| Perylene-d12                        | 185231        | 22.83 |          |     |          |
| <b>IDENTIFIED COMPOUNDS</b>         |               |       |          |     |          |
| 1-Pentanol                          | 390           | J     | 3.57     |     | ug/Kg    |
| 1-octanol                           | 1200          | J     | 3.99     |     | ug/Kg    |
| 1-P                                 | 7100 ND       | A U B | 4.60     |     | ug/Kg    |
| 1-P                                 | 280           | A     | 4.79     |     | ug/Kg    |
| 1-P                                 | 400 ND        | A U B | 5.59     |     | ug/Kg    |
| Oxirane, 2-methyl-3-propyl-, cis-   | 220           | J     | 7.46     |     | ug/Kg    |
| Unknown                             | 330           | J     | 10.77    |     | ug/Kg    |
| 1-undecanoic acid                   | 230           | JB    | 16.09    |     | ug/Kg    |
| 2,6,10-Dodecatrien-1-ol, 3,7,11-tri | 230           | J     | 21.63    |     | ug/Kg    |
| 1-azopyrene                         | 230           | J     | 22.58    |     | ug/Kg    |
| 1-hexatriacontane                   | 460           | J     | 23.51    |     | ug/Kg    |
| 1-heneicosane                       | 450           | J     | 24.49    |     | ug/Kg    |
| 1-tricosane                         | 230           | J     | 24.95    |     | ug/Kg    |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-02

Client ID: 01075SP01S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001645.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.3

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                         | Concentration | C | RDL   | MDL | Units |
|-----------------------------------|---------------|---|-------|-----|-------|
| TENTITIVE IDENTIFIED COMPOUNDS    |               |   |       |     |       |
| Nonatatriacontane                 | 520           | J | 25.67 |     | ug/Kg |
| Hexatriacontane                   | 590           | J | 27.07 |     | ug/Kg |
| 6-(2,3-Dihydroxy-3-methylbutyl)-7 | 440           | J | 34.11 |     | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-03

Client ID: 01075SP02S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001650.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter                      | Concentration | C | RDL | MDL | Units |
|--------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>                 |               |   |     |     |       |
| 1,2-dichloroethane             | < 35          | U | 350 | 35  | ug/Kg |
| 1,2-dichloroethane             | < 41          | U | 350 | 41  | ug/Kg |
| 2,4-dichlorophenol             | < 38          | U | 350 | 38  | ug/Kg |
| 1,2-dichlorobenzene            | < 35          | U | 350 | 35  | ug/Kg |
| 1,2-dichlorobenzene            | < 41          | U | 350 | 41  | ug/Kg |
| 1,2-dichlorobenzene            | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-dichlorophenol             | < 35          | U | 350 | 35  | ug/Kg |
| 1,2,2-trichloroethane          | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-dimethylphenols            | < 62          | U | 350 | 62  | ug/Kg |
| Nitroso-di-n-propylamine       | < 35          | U | 350 | 35  | ug/Kg |
| Hexachloroethane               | < 38          | U | 350 | 38  | ug/Kg |
| 1,2-dichlorobenzene            | < 35          | U | 350 | 35  | ug/Kg |
| 1,2-dichlorobenzene            | < 35          | U | 350 | 35  | ug/Kg |
| 2-Nitrophenol                  | < 38          | U | 350 | 38  | ug/Kg |
| 2,4-Dimethylphenol             | < 80          | U | 350 | 80  | ug/Kg |
| 1,2-bis(2-Chloroethoxy)methane | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dichlorophenol             | < 45          | U | 350 | 45  | ug/Kg |
| 1,2,4-Trichlorobenzene         | < 41          | U | 350 | 41  | ug/Kg |
| Naphthalene                    | 47            | J | 350 | 41  | ug/Kg |
| 2-Chloroaniline                | < 41          | U | 350 | 41  | ug/Kg |
| 1,2-dichlorobutadiene          | < 52          | U | 350 | 52  | ug/Kg |
| 4-Chloro-3-methylphenol        | < 38          | U | 350 | 38  | ug/Kg |
| 1-Methylnaphthalene            | 61            | J | 350 | 41  | ug/Kg |
| 1,2-dichlorocyclopentadiene    | < 130         | U | 350 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol          | < 35          | U | 350 | 35  | ug/Kg |
| 2,4,5-Trichlorophenol          | < 35          | U | 870 | 35  | ug/Kg |
| 1-Chloronaphthalene            | < 41          | U | 350 | 41  | ug/Kg |
| 2-Nitroaniline                 | < 35          | U | 870 | 35  | ug/Kg |
| 1-methylphthalate              | < 35          | U | 350 | 35  | ug/Kg |
| Acenaphthylene                 | 61            | J | 350 | 41  | ug/Kg |
| 1,2-Dinitrotoluene             | < 35          | U | 350 | 35  | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-03

Client ID: 01075SP02S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001650.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

TARGETS

|                            |          |   |     |    |       |
|----------------------------|----------|---|-----|----|-------|
| 3 Nitroaniline             | < 41     | U | 870 | 41 | ug/Kg |
| Acenaphthene               | 340      | J | 350 | 41 | ug/Kg |
| 2,4-Dinitrophenol          | < 69 U J | U | 870 | 69 | ug/Kg |
| 4 Nitrophenol              | 140      | J | 870 | 38 | ug/Kg |
| Dibenzofuran               | 230      | J | 350 | 35 | ug/Kg |
| 2,4-Dinitrotoluene         | < 38     | U | 350 | 38 | ug/Kg |
| Diethylphthalate           | < 35     | U | 350 | 35 | ug/Kg |
| 4-Chlorophenyl-phenylether | < 41 U J | U | 350 | 41 | ug/Kg |
| 3-pyrene                   | 430 J    |   | 350 | 38 | ug/Kg |
| 3 Nitroaniline             | < 83     | U | 870 | 83 | ug/Kg |
| 1,6-Dinitro-2-methylphenol | < 41     | U | 870 | 41 | ug/Kg |
| Nitrosodiphenylamine       | < 69     | U | 350 | 69 | ug/Kg |
| 4-Bromophenyl-phenylether  | < 45     | U | 350 | 45 | ug/Kg |
| Hexachlorobenzene          | < 38     | U | 350 | 38 | ug/Kg |
| 2,4-Dichlorophenol         | < 66     | U | 870 | 66 | ug/Kg |
| Acenanthrene               | 3700     | E | 350 | 35 | ug/Kg |
| Anthracene                 | 530      |   | 350 | 45 | ug/Kg |
| Indazole                   | 650      |   | 350 | 14 | ug/Kg |
| Di-n-butylphthalate        | < 41     | U | 350 | 41 | ug/Kg |
| Fluoranthene               | 4500     | E | 350 | 35 | ug/Kg |
| Pyrene                     | 6400 J   | E | 350 | 35 | ug/Kg |
| Butylbenzylphthalate       | < 35 U J | U | 350 | 35 | ug/Kg |
| 1,2-Dichlorobenzidine      | < 35 U J | U | 350 | 35 | ug/Kg |
| Benzo(a)anthracene         | 3700 J   | E | 350 | 35 | ug/Kg |
| Chrysene                   | 5500 J   | E | 350 | 55 | ug/Kg |
| 2-Ethylhexylphthalate      | 220 U J  | U | 350 | 35 | ug/Kg |
| n-octyl phthalate          | < 52 U J | U | 350 | 52 | ug/Kg |
| Benzo(b)fluoranthene       | 6100 J   | E | 350 | 35 | ug/Kg |
| Benzo(k)fluoranthene       | 5400 J   | E | 350 | 90 | ug/Kg |
| Benzo(a)pyrene             | 4500 J   | E | 350 | 52 | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 710 J    |   | 350 | 55 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03

Client ID: 01075SP02S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001650.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter             | Concentration | C    | RDL      | MDL | Units    |
|-----------------------|---------------|------|----------|-----|----------|
| <b>TARGETS</b>        |               |      |          |     |          |
| 1 benz(a,h)anthracene | 190           | J    | J        | 350 | 52 ug/Kg |
| Benzo(g,h,i)perylene  | 1700          | J    |          | 350 | 45 ug/Kg |
| <b>EROGATES</b>       |               |      |          |     |          |
| 2-fluorophenol        | 170.37        | 57 % | 25 - 121 |     | SPK: 300 |
| Phenol-d5             | 191.19        | 64 % | 24 - 113 |     | SPK: 300 |
| 1-trobenzene-d5       | 131.44        | 66 % | 23 - 120 |     | SPK: 200 |
| 2-fluorobiphenyl      | 147.85        | 74 % | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol  | 151.38        | 50 % | 19 - 122 |     | SPK: 300 |
| phenyl-d14            | 153.46        | 77 % | 18 - 137 |     | SPK: 200 |

## INTERNAL STANDARDS

|                      |        |       |
|----------------------|--------|-------|
| 1-Dichlorobenzene-d4 | 84501  | 6.89  |
| 1-naphthalene-d8     | 305534 | 9.08  |
| 1-acenaphthene-d10   | 157160 | 12.32 |
| 1-ananthrene-d10     | 234724 | 15.06 |
| Chrysene-d12         | 82085  | 20.04 |
| 1-ylene-d12          | 40519  | 22.85 |

## QUANTITATIVE IDENTIFIED COMPOUNDS

|                                     |           |     |       |       |
|-------------------------------------|-----------|-----|-------|-------|
| 1-Pentanol                          | 360       | J   | 3.58  | ug/Kg |
| 1-kanal                             | 970       | J   | 4.00  | ug/Kg |
| ACP                                 | NO 8400 U | A B | 4.61  | ug/Kg |
| ACP                                 | 300       | A   | 5.36  | ug/Kg |
| ACP                                 | NO 430 U  | A B | 5.60  | ug/Kg |
| ACP                                 | 380       | A   | 7.46  | ug/Kg |
| ene, 2-methyl-                      | 530       | J   | 18.41 | ug/Kg |
| ene, 1-methyl-                      | 320       | J   | 18.59 | ug/Kg |
| 2,6,10-Dodecatrien-1-ol, 3,7,11-tri | 650       | J   | 21.66 | ug/Kg |
| benzo[k]fluoranthene                | 480       | J   | 22.24 | ug/Kg |
| ylene                               | 1800      | J   | 22.62 | ug/Kg |
| Decadecane                          | 930       | J   | 23.53 | ug/Kg |
| Nor-17.alpha.(H)-hopane             | 770       | J   | 24.08 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03

Client ID: 01075SP02S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001650.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

## TENTATIVE IDENTIFIED COMPOUNDS

|                                  |     |   |       |  |       |
|----------------------------------|-----|---|-------|--|-------|
| triatetracontane                 | 670 | J | 24.52 |  | ug/Kg |
| thiazolemethanol, .alpha.-phenyl | 660 | J | 24.97 |  | ug/Kg |
| Heneicosane                      | 590 | J | 25.68 |  | ug/Kg |
| tracosane                        | 520 | J | 27.11 |  | ug/Kg |
| tetracosane                      | 530 | J | 28.79 |  | ug/Kg |



## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03 DL

Client ID: 01075SP02S02 DL

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001930.D

Dilution: 10

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL  | MDL  | Units |
|------------------------------|---------------|---|------|------|-------|
| <b>TARGETS</b>               |               |   |      |      |       |
| Phenol                       | < 350         | U | 3500 | 350  | ug/Kg |
| Bis(2-Chloroethyl)ether      | < 410         | U | 3500 | 410  | ug/Kg |
| 2-Chlorophenol               | < 380         | U | 3500 | 380  | ug/Kg |
| 1,2-Dichlorobenzene          | < 350         | U | 3500 | 350  | ug/Kg |
| 1,3-Dichlorobenzene          | < 410         | U | 3500 | 410  | ug/Kg |
| 1,4-Dichlorobenzene          | < 350         | U | 3500 | 350  | ug/Kg |
| 4-Methylphenol               | < 350         | U | 3500 | 350  | ug/Kg |
| 2,2'-oxybis(1-chloropropane) | < 350         | U | 3500 | 350  | ug/Kg |
| 4-Methylphenols              | < 620         | U | 3500 | 620  | ug/Kg |
| Nitroso-di-n-propylamine     | < 350         | U | 3500 | 350  | ug/Kg |
| Hexachloroethane             | < 380         | U | 3500 | 380  | ug/Kg |
| Bromobenzene                 | < 350         | U | 3500 | 350  | ug/Kg |
| Phorone                      | < 350         | U | 3500 | 350  | ug/Kg |
| 2-Nitrophenol                | < 380         | U | 3500 | 380  | ug/Kg |
| 1,3-Dimethylphenol           | < 800         | U | 3500 | 800  | ug/Kg |
| Bis(2-Chloroethoxy)methane   | < 350         | U | 3500 | 350  | ug/Kg |
| 2,4-Dichlorophenol           | < 450         | U | 3500 | 450  | ug/Kg |
| 1,4-Trichlorobenzene         | < 410         | U | 3500 | 410  | ug/Kg |
| Naphthalene                  | < 410         | U | 3500 | 410  | ug/Kg |
| Chloroaniline                | < 410         | U | 3500 | 410  | ug/Kg |
| Hexachlorobutadiene          | < 520         | U | 3500 | 520  | ug/Kg |
| 4-Chloro-3-methylphenol      | < 380         | U | 3500 | 380  | ug/Kg |
| 1-Methylnaphthalene          | < 410         | U | 3500 | 410  | ug/Kg |
| Hexachlorocyclopentadiene    | < 1300        | U | 3500 | 1300 | ug/Kg |
| 2,4,6-Trichlorophenol        | < 350         | U | 3500 | 350  | ug/Kg |
| 1,5-Trichlorophenol          | < 350         | U | 8700 | 350  | ug/Kg |
| Chloronaphthalene            | < 410         | U | 3500 | 410  | ug/Kg |
| 2-Nitroaniline               | < 350         | U | 8700 | 350  | ug/Kg |
| 1-methylphthalate            | < 350         | U | 3500 | 350  | ug/Kg |
| Acenaphthylene               | < 410         | U | 3500 | 410  | ug/Kg |
| 1,5-Dinitrotoluene           | < 350         | U | 3500 | 350  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03 DL

Client ID: 01075SP02S02 DL

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001930.D

Dilution: 10

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C  | RDL  | MDL | Units |
|----------------------------|---------------|----|------|-----|-------|
| <b>TARGETS</b>             |               |    |      |     |       |
| Nitroaniline               | < 410         | U  | 8700 | 410 | ug/Kg |
| Naphthalene                | < 410         | U  | 3500 | 410 | ug/Kg |
| 4-Dinitrophenol            | < 690         | U  | 8700 | 690 | ug/Kg |
| Nitrophenol                | < 380         | U  | 8700 | 380 | ug/Kg |
| Benzofuran                 | < 350         | U  | 3500 | 350 | ug/Kg |
| 4-Dinitrotoluene           | < 380         | U  | 3500 | 380 | ug/Kg |
| Phthalate                  | < 350         | U  | 3500 | 350 | ug/Kg |
| Chlorophenyl-phenylether   | < 410         | U  | 3500 | 410 | ug/Kg |
| Borene                     | < 380         | U  | 3500 | 380 | ug/Kg |
| Nitroaniline               | < 830         | U  | 8700 | 830 | ug/Kg |
| 2,6-Dinitro-2-methylphenol | < 410         | U  | 8700 | 410 | ug/Kg |
| Nitrosodiphenylamine       | < 690         | U  | 3500 | 690 | ug/Kg |
| Bromophenyl-phenylether    | < 450         | U  | 3500 | 450 | ug/Kg |
| Hexachlorobenzene          | < 380         | U  | 3500 | 380 | ug/Kg |
| Trichlorophenol            | < 660         | U  | 8700 | 660 | ug/Kg |
| Benanthrene                | 5800          | D  | 3500 | 350 | ug/Kg |
| Anthracene                 | 510           | JD | 3500 | 450 | ug/Kg |
| Bazole                     | 670           | JD | 3500 | 140 | ug/Kg |
| n-n-butylphthalate         | < 410         | U  | 3500 | 410 | ug/Kg |
| Fluoranthene               | 12000         | D  | 3500 | 350 | ug/Kg |
| Benzene                    | 11000         | D  | 3500 | 350 | ug/Kg |
| Butylbenzylphthalate       | < 350         | U  | 3500 | 350 | ug/Kg |
| 1,2-Dichlorobenzidine      | < 350         | U  | 3500 | 350 | ug/Kg |
| Benzo(a)anthracene         | 4300          | D  | 3500 | 350 | ug/Kg |
| Chrysene                   | 5500          | D  | 3500 | 550 | ug/Kg |
| (2-Ethylhexyl)phthalate    | < 350         | U  | 3500 | 350 | ug/Kg |
| n-octyl phthalate          | < 520         | U  | 3500 | 520 | ug/Kg |
| Benzo(b)fluoranthene       | 11000 J       | D  | 3500 | 350 | ug/Kg |
| Benzo(k)fluoranthene       | 2300 J        | JD | 3500 | 900 | ug/Kg |
| Benzo(a)pyrene             | 4300 J        | D  | 3500 | 520 | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | < 550         | U  | 3500 | 550 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-03 DL

Client ID: 01075SP02S02 DL

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001930.D

Dilution: 10

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB060602-01B

| Parameter                 | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |               |       |          |     |          |
| benz(a,h)anthracene       | < 520         | U     | 3500     | 520 | ug/Kg    |
| benzo(g,h,i)perylene      | < 450         | U     | 3500     | 450 | ug/Kg    |
| <b>PROGATES</b>           |               |       |          |     |          |
| fluorophenol              | 261           | 87 %  | 25 - 121 |     | SPK: 300 |
| phenol-d5                 | 246           | 82 %  | 24 - 113 |     | SPK: 300 |
| robenzene-d5              | 190           | 95 %  | 23 - 120 |     | SPK: 200 |
| luorobiphenyl             | 203           | 102 % | 30 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol        | 282           | 94 %  | 19 - 122 |     | SPK: 300 |
| phenyl-d14                | 161           | 81 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |               |       |          |     |          |
| Dichlorobenzene-d4        | 169691        | 4.94  |          |     |          |
| phthalene-d8              | 717354        | 7.43  |          |     |          |
| acenaphthene-d10          | 389138        | 11.30 |          |     |          |
| anthrene-d10              | 673983        | 14.64 |          |     |          |
| rysene-d12                | 472528        | 20.72 |          |     |          |
| pylene-d12                | 152714        | 23.78 |          |     |          |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson,Pope &amp; Voorhis, LLC

Sample ID: P2891-04

Client ID: 01075SP02S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001644.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>               |               |   |     |     |       |
| Phenol                       | < 34          | U | 340 | 34  | ug/Kg |
| 1,2-(2-Chloroethyl)ether     | < 40          | U | 340 | 40  | ug/Kg |
| 2-Chlorophenol               | < 38          | U | 340 | 38  | ug/Kg |
| 1,2-Dichlorobenzene          | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene          | < 40          | U | 340 | 40  | ug/Kg |
| 1,4-Dichlorobenzene          | < 34          | U | 340 | 34  | ug/Kg |
| 4-Methylphenol               | < 34          | U | 340 | 34  | ug/Kg |
| 2,2'-oxybis(1-chloropropane) | < 34          | U | 340 | 34  | ug/Kg |
| 4-Methylphenols              | < 61          | U | 340 | 61  | ug/Kg |
| Nitroso-di-n-propylamine     | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane             | < 38          | U | 340 | 38  | ug/Kg |
| Chlorobenzene                | < 34          | U | 340 | 34  | ug/Kg |
| Phorone                      | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol                | < 38          | U | 340 | 38  | ug/Kg |
| 2,4-Dimethylphenol           | < 79          | U | 340 | 79  | ug/Kg |
| 1,2-(2-Chloroethoxy)methane  | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol           | < 44          | U | 340 | 44  | ug/Kg |
| 1,2,4-Trichlorobenzene       | < 40          | U | 340 | 40  | ug/Kg |
| Naphthalene                  | < 40          | U | 340 | 40  | ug/Kg |
| 4-Chloroaniline              | < 40          | U | 340 | 40  | ug/Kg |
| 1,2-Dichlorobutadiene        | < 51          | U | 340 | 51  | ug/Kg |
| 4-Chloro-3-methylphenol      | < 38          | U | 340 | 38  | ug/Kg |
| 1-Methylnaphthalene          | < 40          | U | 340 | 40  | ug/Kg |
| 1,2-Dichlorocyclopentadiene  | < 130         | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol        | < 34          | U | 340 | 34  | ug/Kg |
| 1,3,5-Trichlorophenol        | < 34          | U | 860 | 34  | ug/Kg |
| Chloronaphthalene            | < 40          | U | 340 | 40  | ug/Kg |
| 1-Nitroaniline               | < 34          | U | 860 | 34  | ug/Kg |
| 1-Methylphthalate            | < 34          | U | 340 | 34  | ug/Kg |
| 1-Naphthylene                | < 40          | U | 340 | 40  | ug/Kg |
| 1,6-Dinitrotoluene           | < 34          | U | 340 | 34  | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-04

Client ID: 01075SP02S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001644.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C  | RDL | MDL | Units |
|----------------------------|---------------|----|-----|-----|-------|
| <b>TARGETS</b>             |               |    |     |     |       |
| Nitroaniline               | < 40          | U  | 860 | 40  | ug/Kg |
| Acenaphthene               | < 40          | U  | 340 | 40  | ug/Kg |
| 2,4-Dinitrophenol          | < 68 UJ       | U  | 860 | 68  | ug/Kg |
| Nitrophenol                | < 38          | U  | 860 | 38  | ug/Kg |
| Indenzofuran               | < 34          | U  | 340 | 34  | ug/Kg |
| 3-Dinitrotoluene           | < 38          | U  | 340 | 38  | ug/Kg |
| Methylphthalate            | < 34          | U  | 340 | 34  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 40 UJ       | U  | 340 | 40  | ug/Kg |
| Fluorene                   | < 38 UJ       | U  | 340 | 38  | ug/Kg |
| Nitroaniline               | < 82          | U  | 860 | 82  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 40          | U  | 860 | 40  | ug/Kg |
| Nitrosodiphenylamine       | < 68          | U  | 340 | 68  | ug/Kg |
| 3-Bromophenyl-phenylether  | < 44          | U  | 340 | 44  | ug/Kg |
| Hexachlorobenzene          | < 38          | U  | 340 | 38  | ug/Kg |
| 2,4-Dichlorophenol         | < 65          | U  | 860 | 65  | ug/Kg |
| Acenanthrene               | < 34          | U  | 340 | 34  | ug/Kg |
| Anthracene                 | < 44          | U  | 340 | 44  | ug/Kg |
| Carbazole                  | < 14          | U  | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | < 40          | U  | 340 | 40  | ug/Kg |
| Fluoranthene               | < 34          | U  | 340 | 34  | ug/Kg |
| Fluorene                   | < 34          | U  | 340 | 34  | ug/Kg |
| Butylbenzylphthalate       | < 34          | U  | 340 | 34  | ug/Kg |
| 1,1'-Dichlorobenzidine     | < 34          | U  | 340 | 34  | ug/Kg |
| Benzo(a)anthracene         | < 34          | U  | 340 | 34  | ug/Kg |
| Chrysene                   | < 55          | U  | 340 | 55  | ug/Kg |
| (2-Ethylhexyl)phthalate    | 60 U          | JB | 340 | 34  | ug/Kg |
| Di-n-octyl phthalate       | < 51          | U  | 340 | 51  | ug/Kg |
| Benzo(b)fluoranthene       | < 34          | U  | 340 | 34  | ug/Kg |
| Benzo(k)fluoranthene       | < 89 UJ       | U  | 340 | 89  | ug/Kg |
| Benzo(a)pyrene             | < 51          | U  | 340 | 51  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | < 55          | U  | 340 | 55  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson.Pope &amp; Voorhis, LLC

Sample ID: P2891-04

Client ID: 01075SP02S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001644.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter            | Concentration | C    | RDL      | MDL | Units    |
|----------------------|---------------|------|----------|-----|----------|
| <b>TARGETS</b>       |               |      |          |     |          |
| benz(a,h)anthracene  | < 52          | U    | 340      | 52  | ug/Kg    |
| benzo(g,h,i)perylene | < 44          | U    | 340      | 44  | ug/Kg    |
| <b>PROXIMATES</b>    |               |      |          |     |          |
| fluorophenol         | 143.99        | 48 % | 25 - 121 |     | SPK: 300 |
| Phenol-d5            | 171.21        | 57 % | 24 - 113 |     | SPK: 300 |
| robenzene-d5         | 115.35        | 58 % | 23 - 120 |     | SPK: 200 |
| fluorobiphenyl       | 127.61        | 64 % | 30 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol   | 158.96        | 53 % | 19 - 122 |     | SPK: 300 |
| phenyl-d14           | 80.75         | 40 % | 18 - 137 |     | SPK: 200 |

## INTERNAL STANDARDS

|                     |        |       |
|---------------------|--------|-------|
| -Dichlorobenzene-d4 | 72301  | 6.89  |
| phthalene-d8        | 251210 | 9.08  |
| acenaphthene-d10    | 144058 | 12.31 |
| anthrene-d10        | 266231 | 15.05 |
| rysene-d12          | 221003 | 20.01 |
| erylene-d12         | 191577 | 22.81 |

## IDENTIFIED COMPOUNDS

|                                     |           |     |       |       |
|-------------------------------------|-----------|-----|-------|-------|
| 1-Pentanol                          | 210       | J   | 3.57  | ug/Kg |
| hexanal                             | 750       | J   | 3.99  | ug/Kg |
| ACP                                 | ND-6900 U | A B | 4.59  | ug/Kg |
| ACP                                 | ND-380 U  | A B | 5.59  | ug/Kg |
| hexanoic acid                       | 630       | J   | 6.52  | ug/Kg |
| Unknown                             | 210       | J   | 10.77 | ug/Kg |
| 3,10-Dodecatrien-1-ol, 3,7,11-tri   | 2800      | J   | 21.65 | ug/Kg |
| hexacosane                          | 190       | J   | 21.97 | ug/Kg |
| 5,9,13-Pentadecatrien-2-one, 6,10,1 | 390       | J   | 22.46 | ug/Kg |
| 3,10-Dodecatrien-1-ol, 3,7,11-tri   | 560       | J   | 22.54 | ug/Kg |
| heicosane                           | 220       | J   | 22.67 | ug/Kg |
| Dotriacontane                       | 400       | J   | 23.51 | ug/Kg |
| ntatriacontane                      | 280       | J   | 24.49 | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-04

Client ID: 01075SP02S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001644.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                      | Concentration | C | RDL   | MDL | Units |
|--------------------------------|---------------|---|-------|-----|-------|
| TENTATIVE IDENTIFIED COMPOUNDS |               |   |       |     |       |
| tricosane                      | 220           | J | 24.97 |     | ug/Kg |
| Tetratriacontane               | 290           | J | 25.66 |     | ug/Kg |
| tridecane                      | 360           | J | 27.07 |     | ug/Kg |
| triacontane                    | 350           | J | 30.83 |     | ug/Kg |
| Unknown                        | 570           | J | 34.10 |     | ug/Kg |

[illegible]



SVOC-TCL BNA  
SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-05

Client ID: 01075SP04S20

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001635.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>               |               |   |     |     |       |
| anol                         | < 34          | U | 340 | 34  | ug/Kg |
| is(2-Chloroethyl)ether       | < 41          | U | 340 | 41  | ug/Kg |
| Chlorophenol                 | < 38          | U | 340 | 38  | ug/Kg |
| Dichlorobenzene              | < 34          | U | 340 | 34  | ug/Kg |
| 3-Dichlorobenzene            | < 41          | U | 340 | 41  | ug/Kg |
| Dichlorobenzene              | < 34          | U | 340 | 34  | ug/Kg |
| Methylphenol                 | < 34          | U | 340 | 34  | ug/Kg |
| 2,2'-oxybis(1-chloropropane) | < 34          | U | 340 | 34  | ug/Kg |
| -Methylphenols               | < 62          | U | 340 | 62  | ug/Kg |
| Nitroso-di-n-propylamine     | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane             | < 38          | U | 340 | 38  | ug/Kg |
| robenzene                    | < 34 UJ       | U | 340 | 34  | ug/Kg |
| ophorone                     | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol                | < 38          | U | 340 | 38  | ug/Kg |
| -Dimethylphenol              | < 79          | U | 340 | 79  | ug/Kg |
| is(2-Chloroethoxy)methane    | < 34 UJ       | U | 340 | 34  | ug/Kg |
| -Dichlorophenol              | < 45          | U | 340 | 45  | ug/Kg |
| ,4-Trichlorobenzene          | < 41          | U | 340 | 41  | ug/Kg |
| Naphthalene                  | < 41          | U | 340 | 41  | ug/Kg |
| Chloroaniline                | < 41          | U | 340 | 41  | ug/Kg |
| achlorobutadiene             | < 52          | U | 340 | 52  | ug/Kg |
| 4-Chloro-3-methylphenol      | < 38          | U | 340 | 38  | ug/Kg |
| Methylnaphthalene            | < 41          | U | 340 | 41  | ug/Kg |
| exachlorocyclopentadiene     | < 130 UJ      | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol        | < 34          | U | 340 | 34  | ug/Kg |
| ,5-Trichlorophenol           | < 34          | U | 860 | 34  | ug/Kg |
| 2-Chloronaphthalene          | < 41          | U | 340 | 41  | ug/Kg |
| 2-Nitroaniline               | < 34          | U | 860 | 34  | ug/Kg |
| methylphthalate              | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene               | < 41          | U | 340 | 41  | ug/Kg |
| 5-Dinitrotoluene             | < 34          | U | 340 | 34  | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-05

Client ID: 01075SP04S20

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001635.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |               |   |     |     |       |
| Nitroaniline               | < 41          | U | 860 | 41  | ug/Kg |
| Naphthalene                | < 41          | U | 340 | 41  | ug/Kg |
| 4-Dinitrophenol            | < 69 U J      | U | 860 | 69  | ug/Kg |
| 2-Nitrophenol              | < 38          | U | 860 | 38  | ug/Kg |
| Dibenzofuran               | < 34          | U | 340 | 34  | ug/Kg |
| 4-Dinitrotoluene           | < 38          | U | 340 | 38  | ug/Kg |
| Diethylphthalate           | < 34          | U | 340 | 34  | ug/Kg |
| 1-Chlorophenyl-phenylether | < 41 U J      | U | 340 | 41  | ug/Kg |
| 1,2-Dichlorobenzene        | < 38 U J      | U | 340 | 38  | ug/Kg |
| Nitroaniline               | < 82          | U | 860 | 82  | ug/Kg |
| 2,6-Dinitro-2-methylphenol | < 41 U J      | U | 860 | 41  | ug/Kg |
| Nitrosodiphenylamine       | < 69          | U | 340 | 69  | ug/Kg |
| Bromophenyl-phenylether    | < 45          | U | 340 | 45  | ug/Kg |
| Hexachlorobenzene          | < 38          | U | 340 | 38  | ug/Kg |
| 2,4-Dichlorophenol         | < 65          | U | 860 | 65  | ug/Kg |
| Benanthrene                | 41            | J | 340 | 34  | ug/Kg |
| Anthracene                 | < 45          | U | 340 | 45  | ug/Kg |
| Benzazole                  | < 14          | U | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | < 41          | U | 340 | 41  | ug/Kg |
| Fluoranthene               | 82            | J | 340 | 34  | ug/Kg |
| Benzo(a)pyrene             | 55            | J | 340 | 34  | ug/Kg |
| Butylbenzylphthalate       | < 34          | U | 340 | 34  | ug/Kg |
| 1,2-Dichlorobenzidine      | < 34          | U | 340 | 34  | ug/Kg |
| Benz(a)anthracene          | < 34          | U | 340 | 34  | ug/Kg |
| Chrysene                   | < 55          | U | 340 | 55  | ug/Kg |
| 2-Ethylhexylphthalate      | 56 U          | J | 340 | 34  | ug/Kg |
| Di-n-octyl phthalate       | < 52          | U | 340 | 52  | ug/Kg |
| Benzo(b)fluoranthene       | < 34          | U | 340 | 34  | ug/Kg |
| Benz(k)fluoranthene        | < 89 U J      | U | 340 | 89  | ug/Kg |
| Benzo(a)pyrene             | < 52          | U | 340 | 52  | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | < 55 U J      | U | 340 | 55  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-05

Client ID: 01075SP04S20

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001635.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: BC061302

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank:

| Parameter            | Concentration | C    | RDL      | MDL | Units    |
|----------------------|---------------|------|----------|-----|----------|
| <b>TARGETS</b>       |               |      |          |     |          |
| benz(a,h)anthracene  | < 52          | U    | 340      | 52  | ug/Kg    |
| benzo(g,h,i)perylene | < 45          | U    | 340      | 45  | ug/Kg    |
| <b>TRROGATES</b>     |               |      |          |     |          |
| 2-Fluorophenol       | 147.56        | 49 % | 25 - 121 |     | SPK: 300 |
| Phenol-d5            | 188.68        | 63 % | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5      | 118.39        | 59 % | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl     | 117.9         | 59 % | 30 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol   | 109.95        | 37 % | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14        | 85.36         | 43 % | 18 - 137 |     | SPK: 200 |

## INTERNAL STANDARDS

|                      |        |       |
|----------------------|--------|-------|
| 4-Dichlorobenzene-d4 | 56325  | 6.91  |
| Naphthalene-d8       | 206805 | 9.10  |
| Acenaphthene-d10     | 114465 | 12.34 |
| Benanthrene-d10      | 186232 | 15.07 |
| Chrysene-d12         | 138131 | 20.05 |
| Perylene-d12         | 116467 | 22.86 |

## IDENTIFIED COMPOUNDS

|                                      |         |         |       |       |
|--------------------------------------|---------|---------|-------|-------|
| CP                                   | 260     | A       | 3.27  | ug/Kg |
| exanal                               | 650     | J       | 4.01  | ug/Kg |
| ACP                                  | 240     | A       | 4.29  | ug/Kg |
| CP                                   | ND 7800 | U - A B | 4.62  | ug/Kg |
| unknown                              | 430     | J       | 5.61  | ug/Kg |
| 1,3-Oxathiolane-2-propanol, 2-metl   | 190     | J       | 10.79 | ug/Kg |
| psi.,psi.-Carotene, 7,7,8,8,11,11,1: | 1100    | J       | 21.66 | ug/Kg |
| Methanone, dicyclopropyl-            | 270     | J       | 22.55 | ug/Kg |
| Heptacosane                          | 240     | J       | 22.71 | ug/Kg |
| Octadecane                           | 360     | J       | 23.55 | ug/Kg |
| pentatriacontane                     | 330     | J       | 24.53 | ug/Kg |
| Tetratriacontane                     | 390     | J       | 25.72 | ug/Kg |
| nonacosane                           | 460     | J       | 27.14 | ug/Kg |

**SVOC-TCL BNA**

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-05

Client ID: 01075SP04S20

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/13/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001635.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: BC061302

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank:

| Parameter                             | Concentration | C | RDL   | MDL | Units |
|---------------------------------------|---------------|---|-------|-----|-------|
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |               |   |       |     |       |
| Triacetonane                          | 460           | J | 30.92 |     | ug/Kg |
| Octadecane, 3-ethyl-5-(2-ethylbutyl)  | 390           | J | 33.42 |     | ug/Kg |
| Unknown                               | 770           | J | 34.22 |     | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-06

Client ID: 01075SP05S04

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001652.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.5

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| TARGETS                      |               |   |     |     |       |
| Phenol                       | < 35          | U | 350 | 35  | ug/Kg |
| bis(2-Chloroethyl)ether      | < 41          | U | 350 | 41  | ug/Kg |
| Chlorophenol                 | < 38          | U | 350 | 38  | ug/Kg |
| 1,2-Dichlorobenzene          | < 35          | U | 350 | 35  | ug/Kg |
| 1,3-Dichlorobenzene          | < 41          | U | 350 | 41  | ug/Kg |
| 1,4-Dichlorobenzene          | < 35          | U | 350 | 35  | ug/Kg |
| 2-Methylphenol               | < 35          | U | 350 | 35  | ug/Kg |
| 2,2'-oxybis(1-chloropropane) | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dimethylphenols          | < 62          | U | 350 | 62  | ug/Kg |
| N-Nitroso-di-n-propylamine   | < 35          | U | 350 | 35  | ug/Kg |
| Hexachloroethane             | < 38          | U | 350 | 38  | ug/Kg |
| Bromobenzene                 | < 35          | U | 350 | 35  | ug/Kg |
| Isophorone                   | < 35          | U | 350 | 35  | ug/Kg |
| 4-Nitrophenol                | < 38          | U | 350 | 38  | ug/Kg |
| 2,4-Dimethylphenol           | < 79          | U | 350 | 79  | ug/Kg |
| bis(2-Chloroethoxy)methane   | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dichlorophenol           | < 45          | U | 350 | 45  | ug/Kg |
| 1,2,4-Trichlorobenzene       | < 41          | U | 350 | 41  | ug/Kg |
| Naphthalene                  | < 41          | U | 350 | 41  | ug/Kg |
| Chloroaniline                | < 41          | U | 350 | 41  | ug/Kg |
| Hexachlorobutadiene          | < 52          | U | 350 | 52  | ug/Kg |
| 4-Chloro-3-methylphenol      | < 38          | U | 350 | 38  | ug/Kg |
| Methylnaphthalene            | 69            | J | 350 | 41  | ug/Kg |
| Hexachlorocyclopentadiene    | < 130         | U | 350 | 130 | ug/Kg |
| 1,4,6-Trichlorophenol        | < 35          | U | 350 | 35  | ug/Kg |
| 1,3,5-Trichlorophenol        | < 35          | U | 870 | 35  | ug/Kg |
| 2-Chloronaphthalene          | < 41          | U | 350 | 41  | ug/Kg |
| Nitroaniline                 | < 35          | U | 870 | 35  | ug/Kg |
| Dimethylphthalate            | < 35          | U | 350 | 35  | ug/Kg |
| Acenaphthylene               | < 41          | U | 350 | 41  | ug/Kg |
| 2,4-Dinitrotoluene           | < 35          | U | 350 | 35  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-06

Client ID: 01075SP05S04

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001652.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.5

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |               |   |     |     |       |
| Nitroaniline               | < 41          | U | 870 | 41  | ug/Kg |
| Acenaphthene               | 150           | J | 350 | 41  | ug/Kg |
| 2,4-Dinitrophenol          | < 69 UJ       | U | 870 | 69  | ug/Kg |
| Nitrophenol                | < 38          | U | 870 | 38  | ug/Kg |
| Dibenzofuran               | 97            | J | 350 | 35  | ug/Kg |
| 2,6-Dinitrotoluene         | < 38          | U | 350 | 38  | ug/Kg |
| Diethylphthalate           | < 35          | U | 350 | 35  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 41 UJ       | U | 350 | 41  | ug/Kg |
| Borene                     | 210 J         | J | 350 | 38  | ug/Kg |
| Nitroaniline               | < 83          | U | 870 | 83  | ug/Kg |
| 2,6-Dinitro-2-methylphenol | < 41          | U | 870 | 41  | ug/Kg |
| Nitrosodiphenylamine       | < 69          | U | 350 | 69  | ug/Kg |
| Bromophenyl-phenylether    | < 45          | U | 350 | 45  | ug/Kg |
| Hexachlorobenzene          | < 38          | U | 350 | 38  | ug/Kg |
| 2,4-Dichlorophenol         | < 66          | U | 870 | 66  | ug/Kg |
| Acenanthrene               | 1500          |   | 350 | 35  | ug/Kg |
| Anthracene                 | 200           | J | 350 | 45  | ug/Kg |
| Benzazole                  | 190           | J | 350 | 14  | ug/Kg |
| Di-n-butylphthalate        | < 41          | U | 350 | 41  | ug/Kg |
| Fluoranthene               | 1200          |   | 350 | 35  | ug/Kg |
| Pyrene                     | 1500          |   | 350 | 35  | ug/Kg |
| Butylbenzylphthalate       | 63            | J | 350 | 35  | ug/Kg |
| 1,2-Dichlorobenzidine      | < 35          | U | 350 | 35  | ug/Kg |
| Benzo(a)anthracene         | 450           |   | 350 | 35  | ug/Kg |
| Chrysene                   | 670           |   | 350 | 55  | ug/Kg |
| (2-Ethylhexyl)phthalate    | 130           | J | 350 | 35  | ug/Kg |
| 2-n-octyl phthalate        | < 52          | U | 350 | 52  | ug/Kg |
| Benzo(b)fluoranthene       | 420           | J | 350 | 35  | ug/Kg |
| Benzo(k)fluoranthene       | 750           | J | 350 | 90  | ug/Kg |
| Benzo(a)pyrene             | 460           | J | 350 | 52  | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 57            | J | 350 | 55  | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson,Pope & Voorhis, LLC

Sample ID: P2891-06

Client ID: 01075SP05S04

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001652.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.5

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060602-01B

| Parameter                       | Concentration | C    | RDL      | MDL | Units    |
|---------------------------------|---------------|------|----------|-----|----------|
| <b>TARGETS</b>                  |               |      |          |     |          |
| benz(a,h)anthracene             | < 52          | U J  | U        | 350 | 52 ug/Kg |
| benzo(g,h,i)perylene            | 150           | J    | J        | 350 | 45 ug/Kg |
| <b>PROGATES</b>                 |               |      |          |     |          |
| 2-Fluorophenol                  | 91.95         | 31 % | 25 - 121 |     | SPK: 300 |
| Phenol-d5                       | 179.69        | 60 % | 24 - 113 |     | SPK: 300 |
| 1,2,3,4-tetrafluorobenzene-d5   | 126.21        | 63 % | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                | 139.18        | 70 % | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol            | 40.05         | 13 % | 19 - 122 |     | SPK: 300 |
| 1,2,3,4-tetrafluorobiphenyl-d14 | 159.22        | 80 % | 18 - 137 |     | SPK: 200 |

INTERNAL STANDARDS

|                                 |        |       |
|---------------------------------|--------|-------|
| Dichlorobenzene-d4              | 85740  | 6.90  |
| Naphthalene-d8                  | 296337 | 9.08  |
| 1,2,3,4-tetrafluorobenzene-d10  | 159827 | 12.32 |
| 1,2,3,4-tetrafluorobiphenyl-d10 | 233615 | 15.05 |
| Chrysene-d12                    | 81603  | 20.03 |
| 1,2,3,4-tetrafluorobiphenyl-d12 | 36053  | 22.84 |

IDENTITATIVE IDENTIFIED COMPOUNDS

|       |          |     |      |       |
|-------|----------|-----|------|-------|
| kanal | 420      | J   | 3.99 | ug/Kg |
| P     | 11000    | A   | 4.72 | ug/Kg |
| ACP   | ND 400 U | A B | 5.61 | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-06RE

Client ID: 01075SP05S04RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001931.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.5

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

TARGETS

|                          |       |   |     |     |       |
|--------------------------|-------|---|-----|-----|-------|
| anol                     | < 35  | U | 350 | 35  | ug/Kg |
| 2-Chloroethyl)ether      | < 41  | U | 350 | 41  | ug/Kg |
| 2-Chlorophenol           | < 38  | U | 350 | 38  | ug/Kg |
| Dichlorobenzene          | < 35  | U | 350 | 35  | ug/Kg |
| Dichlorobenzene          | < 41  | U | 350 | 41  | ug/Kg |
| 4-Dichlorobenzene        | < 35  | U | 350 | 35  | ug/Kg |
| Methylphenol             | < 35  | U | 350 | 35  | ug/Kg |
| -oxybis(1-chloropropane) | < 35  | U | 350 | 35  | ug/Kg |
| 4-Methylphenols          | < 62  | U | 350 | 62  | ug/Kg |
| Nitroso-di-n-propylamine | < 35  | U | 350 | 35  | ug/Kg |
| Hexachloroethane         | < 38  | U | 350 | 38  | ug/Kg |
| obenzene                 | < 35  | U | 350 | 35  | ug/Kg |
| phorone                  | < 35  | U | 350 | 35  | ug/Kg |
| 2-Nitrophenol            | < 38  | U | 350 | 38  | ug/Kg |
| Dimethylphenol           | < 79  | U | 350 | 79  | ug/Kg |
| 2-Chloroethoxy)methane   | < 35  | U | 350 | 35  | ug/Kg |
| 2,4-Dichlorophenol       | < 45  | U | 350 | 45  | ug/Kg |
| 4-Trichlorobenzene       | < 41  | U | 350 | 41  | ug/Kg |
| phthalene                | < 41  | U | 350 | 41  | ug/Kg |
| 4-Chloroaniline          | < 41  | U | 350 | 41  | ug/Kg |
| achlorobutadiene         | < 52  | U | 350 | 52  | ug/Kg |
| 4-Chloro-3-methylphenol  | < 38  | U | 350 | 38  | ug/Kg |
| Methylnaphthalene        | < 41  | U | 350 | 41  | ug/Kg |
| achlorocyclopentadiene   | < 130 | U | 350 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol    | < 35  | U | 350 | 35  | ug/Kg |
| 5-Trichlorophenol        | < 35  | U | 870 | 35  | ug/Kg |
| chloronaphthalene        | < 41  | U | 350 | 41  | ug/Kg |
| 2-Nitroaniline           | < 35  | U | 870 | 35  | ug/Kg |
| methylphthalate          | < 35  | U | 350 | 35  | ug/Kg |
| enaphthylene             | < 41  | U | 350 | 41  | ug/Kg |
| 2,6-Dinitrotoluene       | < 35  | U | 350 | 35  | ug/Kg |



SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |                |
|--------------------|--------------|--------------------|----------------|
| Sample ID:         | P2891-06RE   | Client ID:         | 01075SP05S04RE |
| Date Collected:    | 6/4/02       | Date Received:     | 6/5/02         |
| Date Analyzed:     | 6/17/02      | Matrix:            | SOIL           |
| Date Extracted:    | 6/6/02       | File ID:           | BB001931.D     |
| Dilution:          | 1            | Instrument ID:     | 5971B          |
| Analytical Method: | 8270         | Analytical Run ID: | 1              |
| Sample Wt/Wol:     | 30.5         | Extract Vol:       | 1000           |
| Injection Vol:     | 2            | % Moisture:        | 6              |
| Associated Blank:  | PB060602-01B |                    |                |

| Parameter                      | Concentration | C | RDL | MDL | Units |
|--------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>                 |               |   |     |     |       |
| Nitroaniline                   | < 41          | U | 870 | 41  | ug/Kg |
| Acenaphthene                   | 140           | J | 350 | 41  | ug/Kg |
| 4-Dinitrophenol                | < 69          | U | 870 | 69  | ug/Kg |
| Phenol                         | < 38          | U | 870 | 38  | ug/Kg |
| Benzenofuran                   | 90            | J | 350 | 35  | ug/Kg |
| 2,4-Dinitrotoluene             | < 38          | U | 350 | 38  | ug/Kg |
| Bis(2-ethylphenyl)phthalate    | < 35          | U | 350 | 35  | ug/Kg |
| 2-Chlorophenyl-phenylether     | < 41          | U | 350 | 41  | ug/Kg |
| Benzene                        | 160           | J | 350 | 38  | ug/Kg |
| Nitroaniline                   | < 83          | U | 870 | 83  | ug/Kg |
| 2,6-Dinitro-2-methylphenol     | < 41          | U | 870 | 41  | ug/Kg |
| Nitrosodiphenylamine           | < 69          | U | 350 | 69  | ug/Kg |
| 2,6-Dimethylphenyl-phenylether | < 45          | U | 350 | 45  | ug/Kg |
| Hexachlorobenzene              | < 38          | U | 350 | 38  | ug/Kg |
| 2,4-Dichlorophenol             | < 66          | U | 870 | 66  | ug/Kg |
| Benanthrene                    | 1300          |   | 350 | 35  | ug/Kg |
| Anthracene                     | 150           | J | 350 | 45  | ug/Kg |
| Indazole                       | 160           | J | 350 | 14  | ug/Kg |
| Di-tert-butylphthalate         | < 41          | U | 350 | 41  | ug/Kg |
| Fluoranthene                   | 1300          |   | 350 | 35  | ug/Kg |
| Benzene                        | 2100          |   | 350 | 35  | ug/Kg |
| Butylbenzylphthalate           | 40            | J | 350 | 35  | ug/Kg |
| 1,2-Dichlorobenzidine          | < 35          | U | 350 | 35  | ug/Kg |
| Benz(a)anthracene              | 420           |   | 350 | 35  | ug/Kg |
| Chrysene                       | 460           |   | 350 | 55  | ug/Kg |
| 2-Ethylhexylphthalate          | 50            | J | 350 | 35  | ug/Kg |
| 1-Octyl phthalate              | < 52          | U | 350 | 52  | ug/Kg |
| Benzo(b)fluoranthene           | 950           |   | 350 | 35  | ug/Kg |
| Benzo(k)fluoranthene           | 220           | J | 350 | 90  | ug/Kg |
| Benzo(a)pyrene                 | 380           |   | 350 | 52  | ug/Kg |
| Benzo(1,2,3-cd)pyrene          | < 55          | U | 350 | 55  | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-06RE

Client ID: 01075SP05S04RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001931.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.5

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060602-01B

| Parameter                 | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |               |       |          |     |          |
| benz(a,h)anthracene       | < 52 UJ       | U     | 350      | 52  | ug/Kg    |
| benzo(g,h,i)perylene      | < 45 UJ       | U     | 350      | 45  | ug/Kg    |
| <b>PROGATES</b>           |               |       |          |     |          |
| fluorophenol              | 119.12        | 40 %  | 25 - 121 |     | SPK: 300 |
| phenol-d5                 | 201.27        | 67 %  | 24 - 113 |     | SPK: 300 |
| obenzene-d5               | 149.53        | 75 %  | 23 - 120 |     | SPK: 200 |
| fluorobiphenyl            | 154.35        | 77 %  | 30 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol        | 63.23         | 21 %  | 19 - 122 |     | SPK: 300 |
| phenyl-d14                | 251.06        | 126 % | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |               |       |          |     |          |
| Dichlorobenzene-d4        | 181930        | 4.95  |          |     |          |
| phthalene-d8              | 752315        | 7.43  |          |     |          |
| Acenaphthene-d10          | 402375        | 11.30 |          |     |          |
| anthrene-d10              | 680890        | 14.65 |          |     |          |
| ene-d12                   | 258795        | 20.74 |          |     |          |
| ylene-d12                 | 35721         | 23.82 |          |     |          |

SVOC-TCL BNA  
SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07 Client ID: 0107501S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001651.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

TARGETS

|                               |       |   |     |     |       |
|-------------------------------|-------|---|-----|-----|-------|
| Phenol                        | < 38  | U | 380 | 38  | ug/Kg |
| 1,2-Dichloroethyl ether       | < 45  | U | 380 | 45  | ug/Kg |
| 2-Chlorophenol                | < 42  | U | 380 | 42  | ug/Kg |
| 1,2-Dichlorobenzene           | < 38  | U | 380 | 38  | ug/Kg |
| 1,3-Dichlorobenzene           | < 45  | U | 380 | 45  | ug/Kg |
| 1,4-Dichlorobenzene           | < 38  | U | 380 | 38  | ug/Kg |
| 4-Ethylphenol                 | < 38  | U | 380 | 38  | ug/Kg |
| 1,2-dioxibis(1-chloropropane) | < 38  | U | 380 | 38  | ug/Kg |
| 2,4-Methylphenols             | < 69  | U | 380 | 69  | ug/Kg |
| Nitroso-di-n-propylamine      | < 38  | U | 380 | 38  | ug/Kg |
| Hexachloroethane              | < 42  | U | 380 | 42  | ug/Kg |
| Toluene                       | < 38  | U | 380 | 38  | ug/Kg |
| Phorone                       | < 38  | U | 380 | 38  | ug/Kg |
| 2-Nitrophenol                 | < 42  | U | 380 | 42  | ug/Kg |
| 2,4-Dimethylphenol            | < 88  | U | 380 | 88  | ug/Kg |
| 2-(2-Chloroethoxy)methane     | < 38  | U | 380 | 38  | ug/Kg |
| 2,4-Dichlorophenol            | < 50  | U | 380 | 50  | ug/Kg |
| 1,4-Trichlorobenzene          | < 45  | U | 380 | 45  | ug/Kg |
| Phthalene                     | < 45  | U | 380 | 45  | ug/Kg |
| Chloroaniline                 | < 45  | U | 380 | 45  | ug/Kg |
| 1,3-Dichlorobutadiene         | < 57  | U | 380 | 57  | ug/Kg |
| 1-Chloro-3-methylphenol       | < 42  | U | 380 | 42  | ug/Kg |
| 1-Methylnaphthalene           | < 45  | U | 380 | 45  | ug/Kg |
| 1,3-Dichlorocyclopentadiene   | < 140 | U | 380 | 140 | ug/Kg |
| 2,4,6-Trichlorophenol         | < 38  | U | 380 | 38  | ug/Kg |
| 2,5-Trichlorophenol           | < 38  | U | 960 | 38  | ug/Kg |
| 1-Chloronaphthalene           | < 45  | U | 380 | 45  | ug/Kg |
| 2-Nitroaniline                | < 38  | U | 960 | 38  | ug/Kg |
| 1-Methylphthalate             | < 38  | U | 380 | 38  | ug/Kg |
| 1-Naphthylene                 | < 45  | U | 380 | 45  | ug/Kg |
| 2,6-Dinitrotoluene            | < 38  | U | 380 | 38  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-07

Client ID: 0107501S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001651.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |               |   |     |     |       |
| Nitroaniline               | < 45 U J      | U | 960 | 45  | ug/Kg |
| Acenaphthene               | < 45 U J      | U | 380 | 45  | ug/Kg |
| 2,4-Dinitrophenol          | < 76 U J      | U | 960 | 76  | ug/Kg |
| Nitrophenol                | < 42 U        | U | 960 | 42  | ug/Kg |
| Dibenzofuran               | < 38 U        | U | 380 | 38  | ug/Kg |
| 4-Dinitrotoluene           | < 42 U        | U | 380 | 42  | ug/Kg |
| Diethylphthalate           | < 38 U        | U | 380 | 38  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 45 U J      | U | 380 | 45  | ug/Kg |
| Borene                     | < 42 U J      | U | 380 | 42  | ug/Kg |
| Nitroaniline               | < 91 U J      | U | 960 | 91  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 45 U        | U | 960 | 45  | ug/Kg |
| Nitrosodiphenylamine       | < 76 U        | U | 380 | 76  | ug/Kg |
| Bromophenyl-phenylether    | < 50 U        | U | 380 | 50  | ug/Kg |
| Hexachlorobenzene          | < 42 U        | U | 380 | 42  | ug/Kg |
| o-chlorophenol             | < 72 U        | U | 960 | 72  | ug/Kg |
| Acenanthrene               | 220 J         | J | 380 | 38  | ug/Kg |
| Anthracene                 | < 50 U J      | U | 380 | 50  | ug/Kg |
| Carbazole                  | 65 J          | J | 380 | 16  | ug/Kg |
| Di-n-butylphthalate        | 51 J          | J | 380 | 45  | ug/Kg |
| Fluoranthene               | 410 U         | U | 380 | 38  | ug/Kg |
| Pyrene                     | 590 U         | U | 380 | 38  | ug/Kg |
| Butylbenzylphthalate       | 240 U         | J | 380 | 38  | ug/Kg |
| 1,1'-Dichlorobenzidine     | < 38 U J      | U | 380 | 38  | ug/Kg |
| Benzo(a)anthracene         | 170 J         | J | 380 | 38  | ug/Kg |
| Chrysene                   | 400 J         | J | 380 | 61  | ug/Kg |
| Bis(2-Ethylhexyl)phthalate | 370 U J       | J | 380 | 38  | ug/Kg |
| Di-n-octyl phthalate       | < 57 U J      | U | 380 | 57  | ug/Kg |
| Benzo(b)fluoranthene       | 330 J         | J | 380 | 38  | ug/Kg |
| Benzo(k)fluoranthene       | 400 J         | J | 380 | 99  | ug/Kg |
| Benzo(a)pyrene             | 310 J         | J | 380 | 57  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | < 61 U J      | U | 380 | 61  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-07

Client ID: 0107501S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001651.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter            | Concentration | C    | RDL      | MDL | Units    |
|----------------------|---------------|------|----------|-----|----------|
| <b>TARGETS</b>       |               |      |          |     |          |
| Benzo(a,h)anthracene | < 58 UJ       | U    | 380      | 58  | ug/Kg    |
| Benzo(g,h,i)perylene | < 50 UJ       | U    | 380      | 50  | ug/Kg    |
| <b>SURROGATES</b>    |               |      |          |     |          |
| 2-fluorophenol       | 97.63         | 33 % | 25 - 121 |     | SPK: 300 |
| Phenol-d5            | 119.19        | 40 % | 24 - 113 |     | SPK: 300 |
| m-xylene-d5          | 78.06         | 39 % | 23 - 120 |     | SPK: 200 |
| 1,4-dibromobiphenyl  | 106.52        | 53 % | 30 - 116 |     | SPK: 200 |
| 1-bromophenol        | 125.3         | 42 % | 19 - 122 |     | SPK: 300 |
| 1-phenyl-d14         | 107.98        | 54 % | 18 - 137 |     | SPK: 200 |

## INTERNAL STANDARDS

|                         |       |       |
|-------------------------|-------|-------|
| 1,4-Dichlorobenzene-d4  | 16796 | 6.90  |
| 1,2,3,4-tetrahalene-d8  | 52280 | 9.08  |
| Acenaphthene-d10        | 33015 | 12.31 |
| 1,2,3,4-tetrahalene-d10 | 51230 | 15.05 |
| 1,2,3,4-tetrahalene-d12 | 24202 | 20.02 |
| 1,2,3,4-tetrahalene-d12 | 9765  | 22.83 |

## QUANTITATIVE IDENTIFIED COMPOUNDS

|                                                             |      |   |       |       |
|-------------------------------------------------------------|------|---|-------|-------|
| ACP                                                         | 5000 | A | 4.55  | ug/Kg |
| 1,2,3,4,5,6-hexachloro-2,4,5-trimethoxy-beta-methoxybenzene | 1100 | J | 21.53 | ug/Kg |
| Unknown                                                     | 2300 | J | 21.91 | ug/Kg |
| Unknown                                                     | 2200 | J | 22.19 | ug/Kg |
| Unknown                                                     | 1200 | J | 22.62 | ug/Kg |
| Unknown                                                     | 1100 | J | 22.76 | ug/Kg |
| 1,2,3,4-tetrahalene, 9-dodecyltetradecahyd                  | 2300 | J | 22.95 | ug/Kg |
| Unknown                                                     | 1500 | J | 23.02 | ug/Kg |
| Unknown                                                     | 4000 | J | 23.38 | ug/Kg |
| 1,2,3,4-tetrahalene, 10-methyl-                             | 2300 | J | 23.52 | ug/Kg |
| 1,2,3,4-tetrahalene, 1-methyl-6-oxo-1,2-azapi               | 1100 | J | 23.68 | ug/Kg |
| Unknown                                                     | 3700 | J | 23.82 | ug/Kg |
| 1,2,3,4-tetrahalene, 6,7-diethy                             | 6000 | J | 24.08 | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07

Client ID: 0107501S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001651.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter                          | Concentration | C | RDL   | MDL | Units |
|------------------------------------|---------------|---|-------|-----|-------|
| TENTATIVE IDENTIFIED COMPOUNDS     |               |   |       |     |       |
| 1H-Inden-1-one, 2,3-dihydro-5,6-di | 4500          | J | 24.96 |     | ug/Kg |
| Unknown                            | 1200          | J | 25.69 |     | ug/Kg |
| Benzenamine, 4-methoxy-2-(3-met    | 3400          | J | 26.14 |     | ug/Kg |
| Unknown                            | 2200          | J | 26.29 |     | ug/Kg |
| Unknown                            | 1800          | J | 27.20 |     | ug/Kg |
| Unknown                            | 1400          | J | 27.49 |     | ug/Kg |
| Unknown                            | 1200          | J | 28.68 |     | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-07RE

Client ID: 01075SP06S02RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001932.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |               |   |     |     |       |
| Phenol                     | < 38          | U | 380 | 38  | ug/Kg |
| bis(2-Chloroethyl)ether    | < 45          | U | 380 | 45  | ug/Kg |
| Chlorophenol               | < 42          | U | 380 | 42  | ug/Kg |
| Dichlorobenzene            | < 38          | U | 380 | 38  | ug/Kg |
| 1,3-Dichlorobenzene        | < 45          | U | 380 | 45  | ug/Kg |
| Dichlorobenzene            | < 38          | U | 380 | 38  | ug/Kg |
| Methylphenol               | < 38          | U | 380 | 38  | ug/Kg |
| 2-oxybis(1-chloropropane)  | < 38          | U | 380 | 38  | ug/Kg |
| 4-Methylphenols            | < 69          | U | 380 | 69  | ug/Kg |
| Nitroso-di-n-propylamine   | < 38          | U | 380 | 38  | ug/Kg |
| Hexachloroethane           | < 42          | U | 380 | 42  | ug/Kg |
| Bromobenzene               | < 38          | U | 380 | 38  | ug/Kg |
| Asophorone                 | < 38          | U | 380 | 38  | ug/Kg |
| 2-Nitrophenol              | < 42          | U | 380 | 42  | ug/Kg |
| 2,4-Dimethylphenol         | < 88          | U | 380 | 88  | ug/Kg |
| bis(2-Chloroethoxy)methane | < 38          | U | 380 | 38  | ug/Kg |
| 2,4-Dichlorophenol         | < 50          | U | 380 | 50  | ug/Kg |
| 1,4-Trichlorobenzene       | < 45          | U | 380 | 45  | ug/Kg |
| Naphthalene                | < 45          | U | 380 | 45  | ug/Kg |
| Chloroaniline              | < 45          | U | 380 | 45  | ug/Kg |
| Hexachlorobutadiene        | < 57          | U | 380 | 57  | ug/Kg |
| 4-Chloro-3-methylphenol    | < 42          | U | 380 | 42  | ug/Kg |
| Methylnaphthalene          | < 45          | U | 380 | 45  | ug/Kg |
| Hexachlorocyclopentadiene  | < 140         | U | 380 | 140 | ug/Kg |
| 2,4,6-Trichlorophenol      | < 38          | U | 380 | 38  | ug/Kg |
| 1,5-Trichlorophenol        | < 38          | U | 960 | 38  | ug/Kg |
| 2-Chloronaphthalene        | < 45          | U | 380 | 45  | ug/Kg |
| Nitroaniline               | < 38          | U | 960 | 38  | ug/Kg |
| 1-methylphthalate          | < 38          | U | 380 | 38  | ug/Kg |
| Acenaphthylene             | < 45          | U | 380 | 45  | ug/Kg |
| 1,5-Dinitrotoluene         | < 38          | U | 380 | 38  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-07RE

Client ID: 01075SP06S02RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001932.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |               |   |     |     |       |
| 3-Nitroaniline             | < 45          | U | 960 | 45  | ug/Kg |
| 1-Naphthene                | < 45          | U | 380 | 45  | ug/Kg |
| 2,4-Dinitrophenol          | < 76          | U | 960 | 76  | ug/Kg |
| 4-Nitrophenol              | < 42          | U | 960 | 42  | ug/Kg |
| 1-Benzofuran               | < 38          | U | 380 | 38  | ug/Kg |
| 2,4-Dinitrotoluene         | < 42          | U | 380 | 42  | ug/Kg |
| 1-Ethylphthalate           | < 38          | U | 380 | 38  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 45          | U | 380 | 45  | ug/Kg |
| Fluorene                   | < 42          | U | 380 | 42  | ug/Kg |
| 4-Nitroaniline             | < 91          | U | 960 | 91  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 45 UJ       | U | 960 | 45  | ug/Kg |
| N-Nitrosodiphenylamine     | < 76 UJ       | U | 380 | 76  | ug/Kg |
| 4-Bromophenyl-phenylether  | < 50 UJ       | U | 380 | 50  | ug/Kg |
| Hexachlorobenzene          | < 42 UJ       | U | 380 | 42  | ug/Kg |
| 2,4-Dichlorophenol         | < 72 UJ       | U | 960 | 72  | ug/Kg |
| 1-Naphthrene               | 150 J         | J | 380 | 38  | ug/Kg |
| Anthracene                 | < 50 UJ       | U | 380 | 50  | ug/Kg |
| Indazole                   | < 16 UJ       | U | 380 | 16  | ug/Kg |
| 1-N-butylphthalate         | < 45 UJ       | U | 380 | 45  | ug/Kg |
| Fluoranthene               | 250 J         | J | 380 | 38  | ug/Kg |
| 1-Pyrene                   | 1900 J        | J | 380 | 38  | ug/Kg |
| 1-Ethylbenzylphthalate     | 460 J         | J | 380 | 38  | ug/Kg |
| 2,3-Dichlorobenzidine      | < 38 UJ       | U | 380 | 38  | ug/Kg |
| 1-Azo(a)anthracene         | 170 J         | J | 380 | 38  | ug/Kg |
| Chrysene                   | 260 J         | J | 380 | 61  | ug/Kg |
| 2-Ethylhexylphthalate      | 380 280 UJ    | J | 380 | 38  | ug/Kg |
| n-octyl phthalate          | < 57 UJ       | U | 380 | 57  | ug/Kg |
| Benzo(b)fluoranthene       | 420 J         | J | 380 | 38  | ug/Kg |
| 1-Azo(k)fluoranthene       | 120 J         | J | 380 | 99  | ug/Kg |
| 1-Azo(a)pyrene             | < 57 UJ       | U | 380 | 57  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | < 61 UJ       | U | 380 | 61  | ug/Kg |



## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-07RE

Client ID: 01075SP06S02RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BB001932.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 14

Associated Blank: PB060602-01B

| Parameter                     | Concentration | C     | RDL      | MDL | Units    |
|-------------------------------|---------------|-------|----------|-----|----------|
| TARGETS                       |               |       |          |     |          |
| Benzo(a,h)anthracene          | < 58 UJ       | U     | 380      | 58  | ug/Kg    |
| Benzo(g,h,i)perylene          | < 50 UJ       | U     | 380      | 50  | ug/Kg    |
| SURROGATES                    |               |       |          |     |          |
| 2,4-Dichlorophenol            | 112.55        | 38 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                     | 131.23        | 44 %  | 24 - 113 |     | SPK: 300 |
| 1,2-Dichlorobenzene-d5        | 102.1         | 51 %  | 23 - 120 |     | SPK: 200 |
| 1,2-Dichlorobiphenyl          | 112.7         | 56 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol          | 169.9         | 57 %  | 19 - 122 |     | SPK: 300 |
| 1,2,3,4-Tetrachlorophenyl-d14 | 421.19        | 211 % | 18 - 137 |     | SPK: 200 |

## INTERNAL STANDARDS

|                               |        |       |
|-------------------------------|--------|-------|
| 1,2-Dichlorobenzene-d4        | 106089 | 4.94  |
| 1,2,3,4-Tetrachlorobenzene-d8 | 410031 | 7.44  |
| Acenaphthene-d10              | 240745 | 11.29 |
| Benzo(a)anthracene-d10        | 333709 | 14.64 |
| Chrysene-d12                  | 32543  | 20.73 |
| Perylene-d12                  | 7780   | 23.82 |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-08

Client ID: 01075SP07S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001647.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                              | Concentration | C | RDL | MDL | Units |
|----------------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>                         |               |   |     |     |       |
| Phenol                                 | < 34          | U | 340 | 34  | ug/Kg |
| 1,2-Dichloroethyl ether                | < 41          | U | 340 | 41  | ug/Kg |
| 2-Chlorophenol                         | < 38          | U | 340 | 38  | ug/Kg |
| 1,2-Dichlorobenzene                    | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene                    | < 41          | U | 340 | 41  | ug/Kg |
| 1,4-Dichlorobenzene                    | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dimethylphenol                     | < 34          | U | 340 | 34  | ug/Kg |
| 1,2-Dichloro-2-oxybis(1-chloropropane) | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dimethylphenols                    | < 62          | U | 340 | 62  | ug/Kg |
| Nitroso-di-n-propylamine               | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane                       | < 38          | U | 340 | 38  | ug/Kg |
| 1,2-Dichlorobenzene                    | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene                    | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol                          | < 38          | U | 340 | 38  | ug/Kg |
| 2,4-Dimethylphenol                     | < 79          | U | 340 | 79  | ug/Kg |
| 1,2-Dichloroethoxy methane             | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol                     | < 45          | U | 340 | 45  | ug/Kg |
| 1,2,4-Trichlorobenzene                 | < 41          | U | 340 | 41  | ug/Kg |
| Naphthalene                            | < 41          | U | 340 | 41  | ug/Kg |
| 1-Chloroaniline                        | < 41          | U | 340 | 41  | ug/Kg |
| 1,2-Dichlorobutadiene                  | < 52          | U | 340 | 52  | ug/Kg |
| 1-Chloro-3-methylphenol                | < 38          | U | 340 | 38  | ug/Kg |
| 1-Methylnaphthalene                    | < 41          | U | 340 | 41  | ug/Kg |
| 1,2-Dichlorocyclopentadiene            | < 130         | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol                  | < 34          | U | 340 | 34  | ug/Kg |
| 2,5-Trichlorophenol                    | < 34          | U | 860 | 34  | ug/Kg |
| 1-Chloronaphthalene                    | < 41          | U | 340 | 41  | ug/Kg |
| 1-Nitroaniline                         | < 34          | U | 860 | 34  | ug/Kg |
| 1-Methylphthalate                      | < 34          | U | 340 | 34  | ug/Kg |
| 1-Naphthylene                          | < 41          | U | 340 | 41  | ug/Kg |
| 2,6-Dinitrotoluene                     | < 34          | U | 340 | 34  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-08

Client ID: 01075SP07S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001647.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C             | RDL | MDL | Units |
|----------------------------|---------------|---------------|-----|-----|-------|
| <b>TARGETS</b>             |               |               |     |     |       |
| 3 Nitroaniline             | < 41          | U             | 860 | 41  | ug/Kg |
| Acenaphthene               | < 41          | U             | 340 | 41  | ug/Kg |
| 2,4-Dinitrophenol          | < 69 U J      | U             | 860 | 69  | ug/Kg |
| 4 Nitrophenol              | < 38          | U             | 860 | 38  | ug/Kg |
| 2-Benzofuran               | < 34          | U             | 340 | 34  | ug/Kg |
| 2,4-Dinitrotoluene         | < 38          | U             | 340 | 38  | ug/Kg |
| Diethylphthalate           | < 34          | U             | 340 | 34  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 41 U J      | U             | 340 | 41  | ug/Kg |
| Fluorene                   | < 38 U J      | U             | 340 | 38  | ug/Kg |
| 4 Nitroaniline             | < 82          | U             | 860 | 82  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | < 41          | U             | 860 | 41  | ug/Kg |
| N-Nitrosodiphenylamine     | < 69          | U             | 340 | 69  | ug/Kg |
| 4-Bromophenyl-phenylether  | < 45          | U             | 340 | 45  | ug/Kg |
| Hexachlorobenzene          | < 38          | U             | 340 | 38  | ug/Kg |
| 2,4-Dichlorophenol         | < 65          | U             | 860 | 65  | ug/Kg |
| Benanthrene                | 140           | J             | 340 | 34  | ug/Kg |
| Anthracene                 | < 45          | U             | 340 | 45  | ug/Kg |
| Carbazole                  | < 14          | U             | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | < 41          | U             | 340 | 41  | ug/Kg |
| Fluoranthene               | 150           | J             | 340 | 34  | ug/Kg |
| Indene                     | 110           | J             | 340 | 34  | ug/Kg |
| Diethylbenzylphthalate     | < 34          | U             | 340 | 34  | ug/Kg |
| 2,3'-Dichlorobenzidine     | < 34          | U             | 340 | 34  | ug/Kg |
| Benzo(a)anthracene         | 44            | J             | 340 | 34  | ug/Kg |
| Chrysene                   | 83            | J             | 340 | 55  | ug/Kg |
| (2-Ethylhexyl)phthalate    | 83 U          | <del>JB</del> | 340 | 34  | ug/Kg |
| Di-n-octyl phthalate       | < 52          | U             | 340 | 52  | ug/Kg |
| Benzo(b)fluoranthene       | 56            | J             | 340 | 34  | ug/Kg |
| Benzo(k)fluoranthene       | < 89 U J      | U             | 340 | 89  | ug/Kg |
| Benzo(a)pyrene             | 52            | J             | 340 | 52  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | < 55          | U             | 340 | 55  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-08

Client ID: 01075SP07S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001647.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                                | Concentration | C     | RDL      | MDL | Units    |
|------------------------------------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                           |               |       |          |     |          |
| benz(a,h)anthracene                      | < 52          | U     | 340      | 52  | ug/Kg    |
| benzo(g,h,i)perylene                     | < 45          | U     | 340      | 45  | ug/Kg    |
| <b>PROGATES</b>                          |               |       |          |     |          |
| fluorophenol                             | 169.57        | 57 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                                | 208.01        | 69 %  | 24 - 113 |     | SPK: 300 |
| robenzene-d5                             | 124.69        | 62 %  | 23 - 120 |     | SPK: 200 |
| fluorobiphenyl                           | 145.36        | 73 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                     | 172.39        | 57 %  | 19 - 122 |     | SPK: 300 |
| phenyl-d14                               | 99.19         | 50 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>                |               |       |          |     |          |
| -Dichlorobenzene-d4                      | 69350         | 6.90  |          |     |          |
| phthalene-d8                             | 255949        | 9.08  |          |     |          |
| Acenaphthene-d10                         | 148964        | 12.32 |          |     |          |
| benanthrene-d10                          | 259927        | 15.04 |          |     |          |
| Chrysene-d12                             | 181059        | 20.01 |          |     |          |
| Perylene-d12                             | 133498        | 22.82 |          |     |          |
| <b>INITIATIVE IDENTIFIED COMPOUNDS</b>   |               |       |          |     |          |
| 1-Pentanol                               | 370           | J     | 3.58     |     | ug/Kg    |
| hexanal                                  | 1100          | J     | 4.00     |     | ug/Kg    |
| ACP                                      | ND 8400 U     | A B   | 4.60     |     | ug/Kg    |
| ACP                                      | 300           | A     | 4.80     |     | ug/Kg    |
| CP                                       | ND 440 U      | A B   | 5.59     |     | ug/Kg    |
| Hexanoic acid                            | 1600          | J     | 6.55     |     | ug/Kg    |
| hexane, 3-methyl-                        | 280           | J     | 7.46     |     | ug/Kg    |
| unknown                                  | 310           | J     | 10.76    |     | ug/Kg    |
| Hexadecanoic acid                        | 300           | J     | 16.10    |     | ug/Kg    |
| Octadecenamamide, (Z)-                   | 300           | J     | 18.95    |     | ug/Kg    |
| ethyl 17-methoxy-10-methoxycar           | 280           | J     | 21.41    |     | ug/Kg    |
| Psi., psi.-Carotene, 7,7,8,8,11,11,11,11 | 1500          | J     | 21.65    |     | ug/Kg    |
| nonatriacontane                          | 790           | J     | 23.52    |     | ug/Kg    |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-08

Client ID: 01075SP07S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001647.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Vol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                      | Concentration | C | RDL   | MDL | Units |
|--------------------------------|---------------|---|-------|-----|-------|
| TENTATIVE IDENTIFIED COMPOUNDS |               |   |       |     |       |
| acosane                        | 840           | J | 24.50 |     | ug/Kg |
| icosane                        | 920           | J | 25.67 |     | ug/Kg |
| tetratriacontane               | 1000          | J | 27.08 |     | ug/Kg |
| icosane, 11-(1-ethylpropyl)-   | 700           | J | 30.84 |     | ug/Kg |
| icosane, 10-methyl-            | 560           | J | 33.33 |     | ug/Kg |
| Unknown                        | 600           | J | 34.10 |     | ug/Kg |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-09

Client ID: 01075SP08S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001646.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>               |               |   |     |     |       |
| Alcohol                      | < 34          | U | 340 | 34  | ug/Kg |
| Bis(2-Chloroethyl)ether      | < 41          | U | 340 | 41  | ug/Kg |
| Chlorophenol                 | < 38          | U | 340 | 38  | ug/Kg |
| Dichlorobenzene              | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene          | < 41          | U | 340 | 41  | ug/Kg |
| 1,4-Dichlorobenzene          | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol           | < 34          | U | 340 | 34  | ug/Kg |
| 1,2'-oxybis(1-chloropropane) | < 34          | U | 340 | 34  | ug/Kg |
| 2,4,6-Triphenols             | < 62          | U | 340 | 62  | ug/Kg |
| Nitroso-di-n-propylamine     | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane             | < 38          | U | 340 | 38  | ug/Kg |
| Chlorobenzene                | < 34          | U | 340 | 34  | ug/Kg |
| Chlorophorone                | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol                | < 38          | U | 340 | 38  | ug/Kg |
| 2,4-Dimethylphenol           | < 79          | U | 340 | 79  | ug/Kg |
| Bis(2-Chloroethoxy)methane   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol           | < 45          | U | 340 | 45  | ug/Kg |
| 1,2,4-Trichlorobenzene       | < 41          | U | 340 | 41  | ug/Kg |
| Naphthalene                  | < 41          | U | 340 | 41  | ug/Kg |
| Chloroaniline                | < 41          | U | 340 | 41  | ug/Kg |
| 1,2-Dichlorobutadiene        | < 51          | U | 340 | 51  | ug/Kg |
| 1-Chloro-3-methylphenol      | < 38          | U | 340 | 38  | ug/Kg |
| 1-Methylnaphthalene          | < 41          | U | 340 | 41  | ug/Kg |
| 1,2-Dichlorocyclopentadiene  | < 130         | U | 340 | 130 | ug/Kg |
| 1,2,4,6-Trichlorophenol      | < 34          | U | 340 | 34  | ug/Kg |
| 1,2,5-Trichlorophenol        | < 34          | U | 860 | 34  | ug/Kg |
| 1-Chloronaphthalene          | < 41          | U | 340 | 41  | ug/Kg |
| 1-Nitroaniline               | < 34          | U | 860 | 34  | ug/Kg |
| 1-Methylphthalate            | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene               | < 41          | U | 340 | 41  | ug/Kg |
| 1,4-Dinitrotoluene           | < 34          | U | 340 | 34  | ug/Kg |

**SVOC-TCL BNA**

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-09

Client ID: 01075SP08S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001646.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |               |   |     |     |       |
| Aminoaniline               | < 41          | U | 860 | 41  | ug/Kg |
| Benaphthene                | < 41          | U | 340 | 41  | ug/Kg |
| 2,4-Dinitrophenol          | < 69 UJ       | U | 860 | 69  | ug/Kg |
| 4-Nitrophenol              | < 38          | U | 860 | 38  | ug/Kg |
| Benzofuran                 | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dinitrotoluene         | < 38          | U | 340 | 38  | ug/Kg |
| Bis(2-ethylhexyl)phthalate | < 34          | U | 340 | 34  | ug/Kg |
| 4-Chlorophenyl-phenylether | < 41 UJ       | U | 340 | 41  | ug/Kg |
| Biphenyl                   | < 38 UJ       | U | 340 | 38  | ug/Kg |
| 2-Nitroaniline             | < 82          | U | 860 | 82  | ug/Kg |
| 2,6-Dinitro-2-methylphenol | < 41          | U | 860 | 41  | ug/Kg |
| Nitrosodiphenylamine       | < 69          | U | 340 | 69  | ug/Kg |
| 4-Bromophenyl-phenylether  | < 45          | U | 340 | 45  | ug/Kg |
| Hexachlorobenzene          | < 38          | U | 340 | 38  | ug/Kg |
| 2,4-Dichlorophenol         | < 65          | U | 860 | 65  | ug/Kg |
| Benanthrene                | 80            | J | 340 | 34  | ug/Kg |
| Anthracene                 | < 45          | U | 340 | 45  | ug/Kg |
| Imidazole                  | < 14          | U | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | < 41          | U | 340 | 41  | ug/Kg |
| Fluoranthene               | 120           | J | 340 | 34  | ug/Kg |
| Benene                     | 81            | J | 340 | 34  | ug/Kg |
| Butylbenzylphthalate       | < 34          | U | 340 | 34  | ug/Kg |
| 1,1-Dichlorobenzidine      | < 34          | U | 340 | 34  | ug/Kg |
| Benzo(a)anthracene         | < 34          | U | 340 | 34  | ug/Kg |
| Benzofluorene              | 56            | J | 340 | 55  | ug/Kg |
| Bis(2-Ethylhexyl)phthalate | < 34          | U | 340 | 34  | ug/Kg |
| Bis(2-octyl)phthalate      | < 51          | U | 340 | 51  | ug/Kg |
| Benzo(b)fluoranthene       | < 34          | U | 340 | 34  | ug/Kg |
| Benzo(k)fluoranthene       | < 89 UJ       | U | 340 | 89  | ug/Kg |
| Benzo(a)pyrene             | < 51          | U | 340 | 51  | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | < 55          | U | 340 | 55  | ug/Kg |

SVOC-TCL BNA  
SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-09

Client ID: 01075SP08S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001646.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter            | Concentration | C | RDL | MDL | Units |
|----------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>       |               |   |     |     |       |
| benz(a,h)anthracene  | < 52          | U | 340 | 52  | ug/Kg |
| benzo(g,h,i)perylene | < 45          | U | 340 | 45  | ug/Kg |

|                       |        |      |          |  |          |
|-----------------------|--------|------|----------|--|----------|
| <b>PROGATES</b>       |        |      |          |  |          |
| 2-Fluorophenol        | 129.13 | 43 % | 25 - 121 |  | SPK: 300 |
| 2-Fluorophenol-d5     | 155.99 | 52 % | 24 - 113 |  | SPK: 300 |
| 1,2-Dibromobenzene-d5 | 95.89  | 48 % | 23 - 120 |  | SPK: 200 |
| 2-Fluorobiphenyl      | 121.66 | 61 % | 30 - 116 |  | SPK: 200 |
| 2,4,6-Tribromophenol  | 133.08 | 44 % | 19 - 122 |  | SPK: 300 |
| 2-Fluorobiphenyl-d14  | 78.16  | 39 % | 18 - 137 |  | SPK: 200 |

|                           |        |       |
|---------------------------|--------|-------|
| <b>INTERNAL STANDARDS</b> |        |       |
| Dichlorobenzene-d4        | 80967  | 6.89  |
| Naphthalene-d8            | 299463 | 9.08  |
| Benanthrene-d10           | 162639 | 12.31 |
| Benanthrene-d10           | 286775 | 15.05 |
| Chrysene-d12              | 224632 | 20.01 |
| Pyrene-d12                | 181521 | 22.82 |

|                                          |           |     |       |  |       |
|------------------------------------------|-----------|-----|-------|--|-------|
| <b>IDENTITATIVE IDENTIFIED COMPOUNDS</b> |           |     |       |  |       |
| Phenol                                   | 470       | J   | 3.99  |  | ug/Kg |
| Phenol-P                                 | ND 6300 U | X B | 4.59  |  | ug/Kg |
| ACP                                      | ND 940 U  | X B | 5.59  |  | ug/Kg |
| 2-Piperidinone, 1,6-dimethyl-            | 150       | J   | 10.77 |  | ug/Kg |
| Tridecanoic acid                         | 130       | J   | 16.08 |  | ug/Kg |
| 9-Octadecenamide, (Z)-                   | 230       | J   | 18.95 |  | ug/Kg |
| Trtriacontane                            | 180       | J   | 21.20 |  | ug/Kg |
| 2-Methyl 17-methoxy-10-methoxycar        | 200       | J   | 21.40 |  | ug/Kg |
| 2,4,10-Dodecatrien-1-ol, 3,7,11-tri      | 500       | J   | 21.64 |  | ug/Kg |
| Trptacosane                              | 330       | J   | 21.97 |  | ug/Kg |
| Pentane, 1,5-dibromo-                    | 170       | J   | 22.54 |  | ug/Kg |
| Trtriacontane                            | 460       | J   | 23.51 |  | ug/Kg |
| Trmeicosane                              | 460       | J   | 24.49 |  | ug/Kg |



SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-09

Client ID: 01075SP08S12

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/14/02

Matrix: SOIL

Date Extracted: 6/6/02

File ID: BC001646.D

Dilution: 1

Instrument ID: 5970C

Analytical Method: 8270

Analytical Run ID: 2

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 4

Associated Blank: PB060602-01B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

TENTATIVE IDENTIFIED COMPOUNDS

|                                   |     |   |       |  |       |
|-----------------------------------|-----|---|-------|--|-------|
| Decosane                          | 240 | J | 24.95 |  | ug/Kg |
| Decosane                          | 510 | J | 25.66 |  | ug/Kg |
| Heptadecane                       | 460 | J | 30.83 |  | ug/Kg |
| Octane                            | 280 | J | 33.32 |  | ug/Kg |
| Quene, 4-chloro-2-fluoro-5-nitro- | 350 | J | 34.11 |  | ug/Kg |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-10

Client ID: 01075FB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: WATER

Date Extracted: 6/6/02

File ID: BB001927.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 980.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB060602-19B

| Parameter                      | Concentration | C | RDL | MDL | Units |
|--------------------------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>                 |               |   |     |     |       |
| 1,1-Dichloroethane             | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,2-Dichloroethane             | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2,4-Dichlorophenol             | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene            | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene            | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,4-Dichlorobenzene            | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenol                 | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,2'-oxybis(1-chloropropane)   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dimethylphenols            | < 1.8         | U | 10  | 1.8 | ug/L  |
| Nitroso-di-n-propylamine       | < 1.0         | U | 10  | 1.0 | ug/L  |
| Hexachloroethane               | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene            | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene            | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Nitrophenol                  | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2,4-Dimethylphenol             | < 2.3         | U | 10  | 2.3 | ug/L  |
| 1,2-bis(2-Chloroethoxy)methane | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dichlorophenol             | < 1.3         | U | 10  | 1.3 | ug/L  |
| 1,2,4-Trichlorobenzene         | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                    | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Chloroaniline                | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,2-Dichlorobutadiene          | < 1.5         | U | 10  | 1.5 | ug/L  |
| 4-Chloro-3-methylphenol        | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1-Methylnaphthalene            | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,2-Dichlorocyclopentadiene    | < 3.9         | U | 10  | 3.9 | ug/L  |
| 2,4,6-Trichlorophenol          | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4,5-Trichlorophenol          | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1-Chloronaphthalene            | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Nitroaniline                 | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1-Methylphthalate              | < 1.0         | U | 10  | 1.0 | ug/L  |
| Acenaphthylene                 | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2,6-Dinitrotoluene             | < 1.0         | U | 10  | 1.0 | ug/L  |

SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-10

Client ID: 01075FB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: WATER

Date Extracted: 6/6/02

File ID: BB001927.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 980.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB060602-19B

| Parameter                | Concentration | C | RDL | MDL   | Units |
|--------------------------|---------------|---|-----|-------|-------|
| <b>TARGETS</b>           |               |   |     |       |       |
| troaniline               | < 1.2         | U | 10  | 1.2   | ug/L  |
| naphthene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| 4-Dinitrophenol          | < 2.0         | U | 10  | 2.0   | ug/L  |
| trophenol                | < 1.1         | U | 10  | 1.1   | ug/L  |
| dibenzofuran             | < 1.0         | U | 10  | 1.0   | ug/L  |
| Dinitrotoluene           | < 1.1         | U | 10  | 1.1   | ug/L  |
| phylphthalate            | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chlorophenyl-phenylether | < 1.2         | U | 10  | 1.2   | ug/L  |
| rene                     | < 1.1         | U | 10  | 1.1   | ug/L  |
| troaniline               | < 2.4         | U | 10  | 2.4   | ug/L  |
| 6-Dinitro-2-methylphenol | < 1.2         | U | 10  | 1.2   | ug/L  |
| nitrosodiphenylamine     | < 2.0         | U | 10  | 2.0   | ug/L  |
| omophenyl-phenylether    | < 1.3         | U | 10  | 1.3   | ug/L  |
| hexachlorobenzene        | < 1.1         | U | 10  | 1.1   | ug/L  |
| achlorophenol            | < 1.9         | U | 10  | 1.9   | ug/L  |
| phenanthrene             | < 1.0         | U | 10  | 1.0   | ug/L  |
| anthracene               | < 1.3         | U | 10  | 1.3   | ug/L  |
| bazole                   | < 0.420       | U | 10  | 0.420 | ug/L  |
| Di-n-butylphthalate      | < 1.2         | U | 10  | 1.2   | ug/L  |
| pranthene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| ene                      | < 1.0         | U | 10  | 1.0   | ug/L  |
| butylbenzylphthalate     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Dichlorobenzidine        | < 1.0         | U | 10  | 1.0   | ug/L  |
| zo(a)anthracene          | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                 | < 1.6         | U | 10  | 1.6   | ug/L  |
| (2-Ethylhexyl)phthalate  | < 1.0         | U | 10  | 1.0   | ug/L  |
| n-octyl phthalate        | < 1.5         | U | 10  | 1.5   | ug/L  |
| benzo(b)fluoranthene     | < 1.0         | U | 10  | 1.0   | ug/L  |
| benzo(k)fluoranthene     | < 2.7         | U | 10  | 2.7   | ug/L  |
| benzo(a)pyrene           | < 1.5         | U | 10  | 1.5   | ug/L  |
| beno(1,2,3-cd)pyrene     | < 1.6         | U | 10  | 1.6   | ug/L  |

## SVOC-TCL BNA

SW-846

SDG No.: P2891-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P2891-10

Client ID: 01075FB01PW01

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/17/02

Matrix: WATER

Date Extracted: 6/6/02

File ID: BB001927.D

Dilution: 1

Instrument ID: 5971B

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 980.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB060602-19B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

## TARGETS

|                      |       |   |    |     |      |
|----------------------|-------|---|----|-----|------|
| Benzo(a,h)anthracene | < 1.5 | U | 10 | 1.5 | ug/L |
| Benzo(g,h,i)perylene | < 1.3 | U | 10 | 1.3 | ug/L |

## SURROGATES

|                      |        |      |          |  |          |
|----------------------|--------|------|----------|--|----------|
| Fluorophenol         | 167.97 | 56 % | 21 - 100 |  | SPK: 300 |
| Phenol-d5            | 162.26 | 54 % | 10 - 94  |  | SPK: 300 |
| Toluene-d5           | 119.49 | 60 % | 35 - 114 |  | SPK: 200 |
| Fluorobiphenyl       | 126.43 | 63 % | 43 - 116 |  | SPK: 200 |
| 2,4,6-Tribromophenol | 163.53 | 55 % | 10 - 123 |  | SPK: 300 |
| Biphenyl-d14         | 91.81  | 46 % | 33 - 141 |  | SPK: 200 |

## INTERNAL STANDARDS

|                    |        |       |
|--------------------|--------|-------|
| Dichlorobenzene-d4 | 195019 | 4.96  |
| Phthalene-d8       | 798377 | 7.44  |
| Acenaphthene-d10   | 430237 | 11.31 |
| Anthracene-d10     | 778189 | 14.64 |
| Pyrene-d12         | 734114 | 20.73 |
| Perylene-d12       | 761673 | 23.78 |

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC      SDG No.: P2891      Method Type: SW846

Sample ID: P2891-01      Client ID: 01075SP01S02

Contract: Nelson, Pope & Voorhis, LLC      Lab Code: CHEMED      Case No.:      SAS No.: P2891

Matrix: SOIL      Date Received: 6/5/02      Level: LOW

% Solids: 84

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 29-90-5   | Aluminum  | 1320          | mg/Kg | J | N*   | P  | 0.77 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.89          | mg/Kg | B |      | P  | 0.27 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 1.2           | mg/Kg | J | *    | P  | 0.31 | P1            | P160702        |
| 40-39-3   | Barium    | 11.1          | mg/Kg | B |      | P  | 0.17 | P1            | P160702        |
| 7440-41-7 | Beryllium | 0.06          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 40-43-9   | Cadmium   | 0.58          | mg/Kg | B |      | P  | 0.06 | P1            | P160702        |
| 40-70-2   | Calcium   | 1760          | mg/Kg |   |      | P  | 2.7  | P1            | P160702        |
| 7440-47-3 | Chromium  | 7.1           | mg/Kg |   |      | P  | 0.08 | P1            | P160702        |
| 40-48-4   | Cobalt    | 1.0           | mg/Kg | B |      | P  | 0.08 | P1            | P160702        |
| 7440-50-8 | Copper    | 12.4          | mg/Kg | J | N*   | P  | 0.18 | P1            | P160702        |
| 7439-89-6 | Iron      | 4750          | mg/Kg | J | *    | P  | 1.9  | P1            | P160702        |
| 39-92-1   | Lead      | 15.5          | mg/Kg | J | N*   | P  | 0.21 | P1            | P160702        |
| 7439-95-4 | Magnesium | 1030          | mg/Kg |   |      | P  | 1.7  | P1            | P160702        |
| 39-96-5   | Manganese | 28.7          | mg/Kg | J | N*   | P  | 0.01 | P1            | P160702        |
| 39-97-6   | Mercury   | 0.01          | mg/Kg | U |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 4.0           | mg/Kg | B |      | P  | 0.26 | P1            | P160702        |
| 40-09-7   | Potassium | 137           | mg/Kg | B |      | P  | 4.3  | P1            | P160702        |
| 7782-49-2 | Selenium  | 0.39          | mg/Kg | U |      | P  | 0.39 | P1            | P160702        |
| 40-22-4   | Silver    | 0.44          | mg/Kg | U |      | P  | 0.44 | P1            | P160702        |
| 40-23-5   | Sodium    | 129           | mg/Kg | B |      | P  | 47.1 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.69          | mg/Kg | U |      | P  | 0.69 | P1            | P160702        |
| 40-62-2   | Vanadium  | 5.9           | mg/Kg | B | J *  | P  | 0.12 | P1            | P160702        |
| 7440-66-6 | Zinc      | 55.9          | mg/Kg | J | N*   | P  | 0.07 | P1            | P160702        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-02

Client ID: 01075SP01S12

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 96

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 652           | mg/Kg | J | N*   | P  | 0.68 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.24          | mg/Kg | U |      | P  | 0.24 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 0.48          | mg/Kg | B | J *  | P  | 0.27 | P1            | P160702        |
| 40-39-3   | Barium    | 2.6           | mg/Kg | B |      | P  | 0.15 | P1            | P160702        |
| 40-41-7   | Beryllium | 0.07          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 7440-43-9 | Cadmium   | 0.08          | mg/Kg | B |      | P  | 0.05 | P1            | P160702        |
| 40-70-2   | Calcium   | 385           | mg/Kg | B |      | P  | 2.4  | P1            | P160702        |
| 7440-47-3 | Chromium  | 1.8           | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 40-48-4   | Cobalt    | 0.34          | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 40-50-8   | Copper    | 8.5           | mg/Kg | J | N*   | P  | 0.16 | P1            | P160702        |
| 7439-89-6 | Iron      | 1690          | mg/Kg | J | *    | P  | 1.7  | P1            | P160702        |
| 139-92-1  | Lead      | 0.99          | mg/Kg | J | N*   | P  | 0.19 | P1            | P160702        |
| 7439-95-4 | Magnesium | 200           | mg/Kg | B |      | P  | 1.5  | P1            | P160702        |
| 7439-96-5 | Manganese | 18.6          | mg/Kg | J | N*   | P  | 0.01 | P1            | P160702        |
| 139-97-6  | Mercury   | 0.01          | mg/Kg | U |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 0.72          | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 440-09-7  | Potassium | 50.7          | mg/Kg | B |      | P  | 3.8  | P1            | P160702        |
| 782-49-2  | Selenium  | 0.34          | mg/Kg | U |      | P  | 0.34 | P1            | P160702        |
| 7440-22-4 | Silver    | 0.39          | mg/Kg | U |      | P  | 0.39 | P1            | P160702        |
| 440-23-5  | Sodium    | 77.8          | mg/Kg | B |      | P  | 41.2 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.60          | mg/Kg | U |      | P  | 0.60 | P1            | P160702        |
| 440-62-2  | Vanadium  | 2.1           | mg/Kg | B | J *  | P  | 0.10 | P1            | P160702        |
| 440-66-6  | Zinc      | 12.4          | mg/Kg | J | N*   | P  | 0.06 | P1            | P160702        |

METALS

- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-03

Client ID: 01075SP02S02

Contract: Nelson, Pope & Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 95

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 9-90-5    | Aluminum  | 637           | mg/Kg | J | N*   | P  | 0.68 | P1            | P160702        |
| 0-36-0    | Antimony  | 0.24          | mg/Kg | U |      | P  | 0.24 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 0.85          | mg/Kg | B | J *  | P  | 0.27 | P1            | P160702        |
| 0-39-3    | Barium    | 11.8          | mg/Kg | B |      | P  | 0.15 | P1            | P160702        |
| 7440-41-7 | Beryllium | 0.04          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 7440-43-9 | Cadmium   | 0.22          | mg/Kg | B |      | P  | 0.05 | P1            | P160702        |
| 0-70-2    | Calcium   | 508           | mg/Kg | B |      | P  | 2.4  | P1            | P160702        |
| 7440-47-3 | Chromium  | 4.8           | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 0-48-4    | Cobalt    | 0.99          | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 0-50-8    | Copper    | 12.5          | mg/Kg | J | N*   | P  | 0.16 | P1            | P160702        |
| 7439-89-6 | Iron      | 2150          | mg/Kg | J | *    | P  | 1.7  | P1            | P160702        |
| 0-92-1    | Lead      | 17.7          | mg/Kg | J | N*   | P  | 0.19 | P1            | P160702        |
| 7439-95-4 | Magnesium | 257           | mg/Kg | B |      | P  | 1.5  | P1            | P160702        |
| 0-96-5    | Manganese | 14.7          | mg/Kg | J | N*   | P  | 0.01 | P1            | P160702        |
| 0-97-6    | Mercury   | 0.01          | mg/Kg | U |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 1.9           | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 0-09-7    | Potassium | 52.9          | mg/Kg | B |      | P  | 3.8  | P1            | P160702        |
| 7782-49-2 | Selenium  | 0.34          | mg/Kg | U |      | P  | 0.34 | P1            | P160702        |
| 0-22-4    | Silver    | 0.39          | mg/Kg | U |      | P  | 0.39 | P1            | P160702        |
| 0-23-5    | Sodium    | 109           | mg/Kg | B |      | P  | 41.3 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.60          | mg/Kg | U |      | P  | 0.60 | P1            | P160702        |
| 0-62-2    | Vanadium  | 3.3           | mg/Kg | B | J *  | P  | 0.10 | P1            | P160702        |
| 0-66-6    | Zinc      | 51.1          | mg/Kg | J | N*   | P  | 0.06 | P1            | P160702        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-04

Client ID: 01075SP02S12

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 96

| CAS No.     | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-------------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 99-90-5     | Aluminum  | 364           | mg/Kg |   | J N* | P  | 0.67 | P1            | P160702        |
| 10-36-0     | Antimony  | 0.30          | mg/Kg | B |      | P  | 0.24 | P1            | P160702        |
| 7440-38-2   | Arsenic   | 1.2           | mg/Kg |   | J *  | P  | 0.27 | P1            | P160702        |
| 10-39-3     | Barium    | 1.3           | mg/Kg | B |      | P  | 0.14 | P1            | P160702        |
| 7440-41-7   | Beryllium | 0.04          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 10-43-9     | Cadmium   | 0.05          | mg/Kg | U |      | P  | 0.05 | P1            | P160702        |
| 10-70-2     | Calcium   | 234           | mg/Kg | B |      | P  | 2.4  | P1            | P160702        |
| 7440-47-3   | Chromium  | 4.8           | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 10-48-4     | Cobalt    | 0.28          | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 10-40-8     | Copper    | 3.0           | mg/Kg |   | J N* | P  | 0.15 | P1            | P160702        |
| 7439-89-6   | Iron      | 2020          | mg/Kg |   | J *  | P  | 1.7  | P1            | P160702        |
| 10-39-2-1   | Lead      | 0.25          | mg/Kg | B | J N* | P  | 0.19 | P1            | P160702        |
| 7439-95-4   | Magnesium | 90.1          | mg/Kg | B |      | P  | 1.4  | P1            | P160702        |
| 10-39-6-5   | Manganese | 14.8          | mg/Kg |   | J N* | P  | 0.01 | P1            | P160702        |
| 10-39-7-6   | Mercury   | 0.01          | mg/Kg | U |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0   | Nickel    | 0.62          | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 10-40-9-7   | Potassium | 35.2          | mg/Kg | B |      | P  | 3.7  | P1            | P160702        |
| 7782-49-2   | Selenium  | 0.34          | mg/Kg | U |      | P  | 0.34 | P1            | P160702        |
| 10-40-2-4   | Silver    | 0.38          | mg/Kg | U |      | P  | 0.38 | P1            | P160702        |
| 10-40-2-3-5 | Sodium    | 73.1          | mg/Kg | B |      | P  | 40.8 | P1            | P160702        |
| 7440-28-0   | Thallium  | 0.60          | mg/Kg | U |      | P  | 0.60 | P1            | P160702        |
| 10-40-6-2-2 | Vanadium  | 2.2           | mg/Kg | B | J *  | P  | 0.10 | P1            | P160702        |
| 7440-66-6   | Zinc      | 17.5          | mg/Kg |   | J N* | P  | 0.06 | P1            | P160702        |



## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-05

Client ID: 01075SP04S20

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 96

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 29-90-5   | Aluminum  | 1600          | mg/Kg | J | N*   | P  | 0.66 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.31          | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 1.6           | mg/Kg | J | *    | P  | 0.27 | P1            | P160702        |
| 40-39-3   | Barium    | 7.1           | mg/Kg | B |      | P  | 0.14 | P1            | P160702        |
| 440-41-7  | Beryllium | 0.12          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 7440-43-9 | Cadmium   | 0.08          | mg/Kg | B |      | P  | 0.05 | P1            | P160702        |
| 40-70-2   | Calcium   | 1880          | mg/Kg |   |      | P  | 2.3  | P1            | P160702        |
| 7440-47-3 | Chromium  | 10.3          | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 40-48-4   | Cobalt    | 1.2           | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 40-50-8   | Copper    | 4.0           | mg/Kg | J | N*   | P  | 0.15 | P1            | P160702        |
| 7439-89-6 | Iron      | 5400          | mg/Kg | J | *    | P  | 1.6  | P1            | P160702        |
| 439-92-1  | Lead      | 0.45          | mg/Kg | J | N*   | P  | 0.18 | P1            | P160702        |
| 7439-95-4 | Magnesium | 441           | mg/Kg | B |      | P  | 1.4  | P1            | P160702        |
| 439-96-5  | Manganese | 54.7          | mg/Kg | J | N*   | P  | 0.01 | P1            | P160702        |
| 439-97-6  | Mercury   | 0.01          | mg/Kg |   |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 2.3           | mg/Kg | B |      | P  | 0.22 | P1            | P160702        |
| 440-09-7  | Potassium | 122           | mg/Kg | B |      | P  | 3.7  | P1            | P160702        |
| 782-49-2  | Selenium  | 0.34          | mg/Kg | U |      | P  | 0.34 | P1            | P160702        |
| 7440-22-4 | Silver    | 0.38          | mg/Kg | U |      | P  | 0.38 | P1            | P160702        |
| 440-23-5  | Sodium    | 129           | mg/Kg | B |      | P  | 40.4 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.59          | mg/Kg | U |      | P  | 0.59 | P1            | P160702        |
| 440-62-2  | Vanadium  | 3.3           | mg/Kg | B | J*   | P  | 0.10 | P1            | P160702        |
| 440-66-6  | Zinc      | 8.2           | mg/Kg | J | N*   | P  | 0.06 | P1            | P160702        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-06

Client ID: 01075SP05 S04

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 94

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 29-90-5   | Aluminum  | 3290          | mg/Kg | J | N*   | P  | 0.68 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.83          | mg/Kg | B |      | P  | 0.24 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 4.0           | mg/Kg | J | *    | P  | 0.27 | P1            | P160702        |
| 40-39-3   | Barium    | 15.8          | mg/Kg | B |      | P  | 0.15 | P1            | P160702        |
| 40-41-7   | Beryllium | 0.16          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 7440-43-9 | Cadmium   | 0.18          | mg/Kg | B |      | P  | 0.05 | P1            | P160702        |
| 40-70-2   | Calcium   | 23100         | mg/Kg |   |      | P  | 2.4  | P1            | P160702        |
| 7440-47-3 | Chromium  | 6.5           | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 40-48-4   | Cobalt    | 1.9           | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 40-50-8   | Copper    | 6.0           | mg/Kg | J | N*   | P  | 0.16 | P1            | P160702        |
| 7439-89-6 | Iron      | 4950          | mg/Kg | J | *    | P  | 1.7  | P1            | P160702        |
| 39-92-1   | Lead      | 64.5          | mg/Kg | J | N*   | P  | 0.19 | P1            | P160702        |
| 7439-95-4 | Magnesium | 2750          | mg/Kg |   |      | P  | 1.5  | P1            | P160702        |
| 139-96-5  | Manganese | 118           | mg/Kg | J | N*   | P  | 0.01 | P1            | P160702        |
| 139-97-6  | Mercury   | 0.03          | mg/Kg |   |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 3.8           | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 140-09-7  | Potassium | 171           | mg/Kg | B |      | P  | 3.8  | P1            | P160702        |
| 782-49-2  | Selenium  | 0.35          | mg/Kg | U |      | P  | 0.35 | P1            | P160702        |
| 7440-22-4 | Silver    | 0.39          | mg/Kg | U |      | P  | 0.39 | P1            | P160702        |
| 440-23-5  | Sodium    | 85.7          | mg/Kg | B |      | P  | 41.7 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.61          | mg/Kg | U |      | P  | 0.61 | P1            | P160702        |
| 440-62-2  | Vanadium  | 7.3           | mg/Kg | J | *    | P  | 0.11 | P1            | P160702        |
| 440-66-6  | Zinc      | 18.6          | mg/Kg | J | N*   | P  | 0.06 | P1            | P160702        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-07

Client ID: 01075SP06S02

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 86

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 29-90-5   | Aluminum  | 730           | mg/Kg |   | J N* | P  | 0.76 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.55          | mg/Kg | B |      | P  | 0.27 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 2.2           | mg/Kg |   | J *  | P  | 0.30 | P1            | P160702        |
| 40-39-3   | Barium    | 6.2           | mg/Kg | B |      | P  | 0.16 | P1            | P160702        |
| 7440-41-7 | Beryllium | 0.09          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 40-43-9   | Cadmium   | 0.25          | mg/Kg | B |      | P  | 0.06 | P1            | P160702        |
| 40-70-2   | Calcium   | 354           | mg/Kg | B |      | P  | 2.7  | P1            | P160702        |
| 7440-47-3 | Chromium  | 4.4           | mg/Kg |   |      | P  | 0.08 | P1            | P160702        |
| 40-48-4   | Cobalt    | 0.83          | mg/Kg | B |      | P  | 0.08 | P1            | P160702        |
| 7440-50-8 | Copper    | 18.4          | mg/Kg |   | J N* | P  | 0.17 | P1            | P160702        |
| 7439-89-6 | Iron      | 2430          | mg/Kg |   | J *  | P  | 1.9  | P1            | P160702        |
| 7439-92-1 | Lead      | 80.4          | mg/Kg |   | J N* | P  | 0.21 | P1            | P160702        |
| 7439-95-4 | Magnesium | 218           | mg/Kg | B |      | P  | 1.6  | P1            | P160702        |
| 7439-96-5 | Manganese | 47.4          | mg/Kg |   | J N* | P  | 0.01 | P1            | P160702        |
| 7439-97-6 | Mercury   | 0.02          | mg/Kg |   |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 3.3           | mg/Kg | B |      | P  | 0.26 | P1            | P160702        |
| 7440-09-7 | Potassium | 51.4          | mg/Kg | B |      | P  | 4.2  | P1            | P160702        |
| 7782-49-2 | Selenium  | 0.38          | mg/Kg | U |      | P  | 0.38 | P1            | P160702        |
| 7440-22-4 | Silver    | 0.43          | mg/Kg | U |      | P  | 0.43 | P1            | P160702        |
| 7440-23-5 | Sodium    | 111           | mg/Kg | B |      | P  | 46.0 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.67          | mg/Kg | U |      | P  | 0.67 | P1            | P160702        |
| 7440-62-2 | Vanadium  | 15.7          | mg/Kg |   | J *  | P  | 0.12 | P1            | P160702        |
| 7440-66-6 | Zinc      | 37.9          | mg/Kg |   | J N* | P  | 0.07 | P1            | P160702        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-08

Client ID: 01075SP07S12

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 96

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 29-90-5   | Aluminum  | 1080          | mg/Kg |   | J N* | P  | 0.66 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.27          | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 0.72          | mg/Kg | B | J *  | P  | 0.27 | P1            | P160702        |
| 40-39-3   | Barium    | 5.9           | mg/Kg | B |      | P  | 0.14 | P1            | P160702        |
| 7440-41-7 | Beryllium | 0.09          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 40-43-9   | Cadmium   | 0.05          | mg/Kg | U |      | P  | 0.05 | P1            | P160702        |
| 40-70-2   | Calcium   | 879           | mg/Kg |   |      | P  | 2.3  | P1            | P160702        |
| 7440-47-3 | Chromium  | 2.9           | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 40-48-4   | Cobalt    | 1.0           | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 7440-50-8 | Copper    | 3.5           | mg/Kg |   | J N* | P  | 0.15 | P1            | P160702        |
| 7439-89-6 | Iron      | 2110          | mg/Kg |   | J *  | P  | 1.6  | P1            | P160702        |
| 7439-92-1 | Lead      | 0.93          | mg/Kg |   | J N* | P  | 0.18 | P1            | P160702        |
| 7439-95-4 | Magnesium | 535           | mg/Kg |   |      | P  | 1.4  | P1            | P160702        |
| 7439-96-5 | Manganese | 65.1          | mg/Kg |   | J N* | P  | 0.01 | P1            | P160702        |
| 7439-97-6 | Mercury   | 0.01          | mg/Kg | U |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 1.4           | mg/Kg | B |      | P  | 0.22 | P1            | P160702        |
| 7440-09-7 | Potassium | 105           | mg/Kg | B |      | P  | 3.7  | P1            | P160702        |
| 7782-49-2 | Selenium  | 0.34          | mg/Kg | U |      | P  | 0.34 | P1            | P160702        |
| 7440-22-4 | Silver    | 0.38          | mg/Kg | U |      | P  | 0.38 | P1            | P160702        |
| 7440-23-5 | Sodium    | 99.0          | mg/Kg | B |      | P  | 40.4 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.59          | mg/Kg | U |      | P  | 0.59 | P1            | P160702        |
| 7440-62-2 | Vanadium  | 2.8           | mg/Kg | B | J *  | P  | 0.10 | P1            | P160702        |
| 7440-66-6 | Zinc      | 5.9           | mg/Kg |   | J N* | P  | 0.06 | P1            | P160702        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P2891

Method Type: SW846

Sample ID: P2891-09

Client ID: 01075SP08SI2

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P2891

Matrix: SOIL

Date Received: 6/5/02

Level: LOW

% Solids: 96

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 29-90-5   | Aluminum  | 1390          | mg/Kg |   | J N* | P  | 0.67 | P1            | P160702        |
| 40-36-0   | Antimony  | 0.33          | mg/Kg | B |      | P  | 0.24 | P1            | P160702        |
| 7440-38-2 | Arsenic   | 0.89          | mg/Kg | B | J *  | P  | 0.27 | P1            | P160702        |
| 40-39-3   | Barium    | 6.3           | mg/Kg | B |      | P  | 0.14 | P1            | P160702        |
| 7440-41-7 | Beryllium | 0.09          | mg/Kg | B |      | P  | 0.01 | P1            | P160702        |
| 40-43-9   | Cadmium   | 0.05          | mg/Kg | U |      | P  | 0.05 | P1            | P160702        |
| 40-70-2   | Calcium   | 482           | mg/Kg | B |      | P  | 2.4  | P1            | P160702        |
| 7440-47-3 | Chromium  | 6.1           | mg/Kg |   |      | P  | 0.07 | P1            | P160702        |
| 40-48-4   | Cobalt    | 0.91          | mg/Kg | B |      | P  | 0.07 | P1            | P160702        |
| 440-50-8  | Copper    | 3.5           | mg/Kg |   | J N* | P  | 0.15 | P1            | P160702        |
| 7439-89-6 | Iron      | 2630          | mg/Kg |   | J *  | P  | 1.7  | P1            | P160702        |
| 139-92-1  | Lead      | 0.80          | mg/Kg |   | J N* | P  | 0.19 | P1            | P160702        |
| 7439-95-4 | Magnesium | 329           | mg/Kg | B |      | P  | 1.4  | P1            | P160702        |
| 139-96-5  | Manganese | 64.7          | mg/Kg |   | J N* | P  | 0.01 | P1            | P160702        |
| 139-97-6  | Mercury   | 0.01          | mg/Kg | U |      | CV | 0.01 | CV1           | 061002E        |
| 7440-02-0 | Nickel    | 1.4           | mg/Kg | B |      | P  | 0.23 | P1            | P160702        |
| 140-09-7  | Potassium | 119           | mg/Kg | B |      | P  | 3.7  | P1            | P160702        |
| 7782-49-2 | Selenium  | 0.34          | mg/Kg | U |      | P  | 0.34 | P1            | P160702        |
| 140-22-4  | Silver    | 0.38          | mg/Kg | U |      | P  | 0.38 | P1            | P160702        |
| 140-23-5  | Sodium    | 54.4          | mg/Kg | B |      | P  | 40.8 | P1            | P160702        |
| 7440-28-0 | Thallium  | 0.60          | mg/Kg | U |      | P  | 0.60 | P1            | P160702        |
| 440-62-2  | Vanadium  | 3.2           | mg/Kg | B | J *  | P  | 0.10 | P1            | P160702        |
| 7440-66-6 | Zinc      | 6.5           | mg/Kg |   | J N* | P  | 0.06 | P1            | P160702        |

# Premier Environmental Services

## APPENDIX C



2 The Hill Street, Littleton, CO 80120

(908) 789-8900 Fax (908) 789-8922

www.chemtech.net

CHEMTECH JOB NO.:

P2891 ASD

CHEMTECH QUOTE NO.:

## CHAIN OF CUSTODY RECORD

COC  
1 of 2

## CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Nissana, Pope & VolanesADDRESS: 512 Walt Whitman Rd.CITY: MELVILLE STATE: NY ZIP: 11747ATTENTION: Eric ArnesenPHONE: (631) 427-5655 FAX: (631) 427-5620

## PROJECT INFORMATION

Central Computers

PROJECT NAME: 327 New South Rd.PROJECT NO.: 01075PROJECT MANAGER: Eric ArnesenLOCATION: Hicksville, NY

PHONE:

FAX:

## BILLING INFORMATION

BILL TO: Same As Client PO #:

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

## ANALYSIS

## DATA TURNAROUND INFORMATION

X: \_\_\_\_\_ DAYS \*

RD COPY: \_\_\_\_\_ DAYS \*

ID: \_\_\_\_\_ DAYS \*

TO BE APPROVED BY CHEMTECH

NORMAL TURNAROUND TIME - 14 DAYS

## DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ NY STATE CATEGORY A☐ RESULTS PLUS QC ☒ NY STATE CATEGORY B☐ REGULATORY FORMAT, STATE:☐ NEW JERSEY REDUCED DELIVERABLES☐ CLP☐ EDD FORMAT: \_\_\_\_\_8260 (VOC)  
8270 (SVOC)  
6010 (metals)

## PRESERVATIVES

## COMMENTS

CHEMTECH  
SAMPLE  
IDPROJECT  
SAMPLE IDENTIFICATIONSAMPLE  
MATRIXSAMPLE  
TYPE  
COMP GRABSAMPLE  
COLLECTION  
DATE TIME

# OF BOTTLES

E

1

2

3

4

5

6

7

8

9

← Specify Preservatives  
A - HCl B - HNO<sub>3</sub>  
C - H<sub>2</sub>SO<sub>4</sub> D - NaOH  
E - ICE F - Other

01

01075 SP01 S02

Soil

✓

6/4/02 0725

2

✓

02

01075 SP01 S12

↓

↓

0745

↓

✓

03

01075 SP02 S02

↓

↓

0830

↓

✓

04

01075 SP02 S12

↓

↓

0900

↓

✓

~~01075 SP03 S04~~~~↓~~~~↓~~~~11~~~~↓~~~~11~~~~01075 SP03 S12~~~~↓~~~~↓~~~~11~~~~↓~~~~11~~

05

01075 SP04 S20

↓

↓

1240

↓

✓

06

01075 SP05 S04

↓

↓

1255

↓

✓

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

ACQUIRED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

ACQUIRED BY:

DATE/TIME:

RECEIVED BY:

ACQUIRED BY:

DATE/TIME:

RECEIVED FOR LAB BY:

Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non-Compliant☒ Temp. of Cooler 4.0°

Comments:

Page \_\_\_\_\_ of \_\_\_\_\_

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT  
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHTShipment Complete:  
☐ YES ☐ NO



284 Sherrild Street, Mountainside, NJ 07092  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

CHEMTECH JOB NO.:  
P2891 ASD -  
CHEMTECH QUOTE NO.:

CHAIN OF CUSTODY RECORD // COC  
2 OF 2 //

CLIENT INFORMATION PROJECT INFORMATION BILLING INFORMATION

REPORT TO BE SENT TO:  
COMPANY: Nelson, Pore & Vochies  
ADDRESS: 572 West Waltham Rd.  
CITY: MELVILLE STATE: NY ZIP: 11747  
ATTENTION: Eric Anderson  
PHONE: (31) 127-5665 FAX: (31) 427-5610

PROJECT NAME: Coal Companies  
PROJECT NO.: 01075  
PROJECT MANAGER: Eric Anderson  
LOCATION: Hackensack, NY  
PHONE: FAX:

BILL TO: Same As Client PO #:  
ADDRESS:  
CITY: STATE: ZIP:  
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION  
EX: \_\_\_\_\_ DAYS \*  
HARD COPY: \_\_\_\_\_ DAYS \*  
SO: \_\_\_\_\_ DAYS \*  
TO BE APPROVED BY CHEMTECH  
NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION  
☐ RESULTS ONLY ☐ NY STATE CATEGORY A  
☐ RESULTS PLUS QC ☐ NY STATE CATEGORY B  
☐ REGULATORY FORMAT, STATE: \_\_\_\_\_  
☐ NEW JERSEY REDUCED DELIVERABLES  
☐ CLP  
☐ EDD FORMAT: \_\_\_\_\_

ANALYSIS

|                                            |   |   |   |   |   |   |   |   |
|--------------------------------------------|---|---|---|---|---|---|---|---|
| 1                                          | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 8260 (VOC)<br>8270 (SVOC)<br>6010 (Metals) |   |   |   |   |   |   |   |   |

| HEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE |      | SAMPLE COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS                         |
|-------------------|-------------------------------|---------------|-------------|------|-------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------------------------------|
|                   |                               |               | COMP        | GRAB | DATE              | TIME |              | E             | B | A |   |   |   |   |   |   |                                  |
|                   |                               |               |             |      |                   |      |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                  |
| 07                | 01075 SP06 S02                | Soxh          |             | ✓    | 6/4/02            | 1020 | 2            | ✓             |   |   |   |   |   |   |   |   |                                  |
| 08                | 01075 SP07 S12                | ↓             |             | ↓    |                   | 1100 | 1            | ✓             |   |   |   |   |   |   |   |   |                                  |
| 09                | 01075 SP08 S12                | ↓             |             | ↓    |                   | 1120 | 1            | ✓             |   |   |   |   |   |   |   |   |                                  |
| 10                | 01075 FB01 PW01               | H2O           |             | ↓    |                   | 0820 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |                                  |
| 11                | 01075 TB01 PW01               | ↓             |             | ↓    |                   |      | 2            | ✓             |   | ✓ |   |   |   |   |   |   |                                  |
| 12                | 01075 msms01 S02              | Soxh          |             | ✓    | 6/4/02            | 1020 | 2            | ✓             |   |   |   |   |   |   |   |   | Consolidated From 01075 SP06 S02 |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                   |                                 |                                            |                                                                                                                                                                                               |
|-----------------------------------|---------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INQUIRED BY: <u>Eric Anderson</u> | DATE/TIME: <u>6/4/02 / 3:00</u> | RECEIVED BY: <u>1. _____</u>               | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input type="checkbox"/> Temp. of Cooler _____<br>Comments:            |
| INQUIRED BY: <u>_____</u>         | DATE/TIME: _____                | RECEIVED BY: <u>2. _____</u>               |                                                                                                                                                                                               |
| INQUIRED BY: <u>UPS</u>           | DATE/TIME: <u>6/5/02</u>        | RECEIVED FOR LAB BY: <u>3. Sunny Patel</u> |                                                                                                                                                                                               |
| Page _____ of _____               |                                 |                                            | SHIPPED VIA: CLIENT: <input type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> OVERNIGHT<br>CHEMTECH: <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT |
|                                   |                                 |                                            | Shipment Complete: <input type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                   |



# Premier Environmental Services

## APPENDIX D

# Premier Environmental Services

May 25, 2004

Kurt Hummler  
Chemtech Consulting Group  
284 Sheffield Street  
Mountainside, NJ 07092

Dear Mr. Hummler,

Premier Environmental Services is performing the data review for the samples collected at the Coral Graphics-New South Road Project. The samples were collected in June, 2002. Below are questions associated with the cited data set. I have organized the questions for ease of review by either the project manager or QA Officer.

## Project P2891 - TCL Volatiles

Sample 01075SP06S02 was analyzed using 2.5 grams of soil sample. This sample prep is confirmed by both the quant report and the run log in the data report. The results are reported to the method detection limit and do not account for the applied dilution. The target analyte results (Acetone and 1,1-DCA) do not have the prep factor reported. Please review and revise if necessary the result form and the confirmation (RE) result form for this sample.

Thank you in advance for your prompt response to these data issues. If there are any additional questions associated with this data set, please do not hesitate to contact me at 516-223-9761.

Sincerely,



Renee Cohen

Cc: Eric Arnesen - Pope, Nelson and Voorhis

JUN 03 2004 14:02 TELETYPE UNIT  
**CHEMTECH**

June 2, 2004

Nelson, Pope & Voorhis, LLC  
2815 Covered Bridge Road  
Merrick, NY 11566

Attn : Renee Cohen

Re: Project ID: Coral Graphics-New South  
Chemtech Project # P2891

As per the client's finding, enclosed please find the corrected Form 1 for Volatile Organic analysis - Sample # P2891-07 and P2891-07RE. The sample weight has been corrected to 2.5 grams and the MDL and RDL have changed accordingly.

We are extremely sorry for the inconvenience caused to you. Please do not hesitate to contact us if we can be of further service at 908-789-8900 ext. 204. We appreciate your patience in this matter.

Sincerely,



Krupa Dubey  
QA/QC

RECEIVED

JUN 03 2004 ✓

NELSON & POPE

**Volatiles**  
**SW-846**

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07

Client ID: 01075SP06S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VAN60807.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: YBA0608S2

Sample Wt/Wol: 2.5 Units: g

Soil Extract Vol: \_\_\_\_\_

Soil Aliquot Vol: \_\_\_\_\_

% Moisture: 14

| Parameter                | CAS Number  | Concentration | C | RDL  | MDL  | Units |
|--------------------------|-------------|---------------|---|------|------|-------|
| <b>TARGETS</b>           |             |               |   |      |      |       |
| Chloromethane            | 74-87-3     | < 4.0         | U | 11.6 | 4.0  | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Bromomethane             | 74-83-9     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Chloroethane             | 75-00-3     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Acetone                  | 67-64-1     | 42            |   | 11.6 | 8.2  | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| Methylene Chloride       | 75-09-2     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | 5.6           | J | 11.6 | 2.0  | ug/Kg |
| 2-Butanone               | 78-93-3     | < 12.6        | U | 11.6 | 12.6 | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 4.8         | U | 11.6 | 4.8  | ug/Kg |
| cis-1,2-Dichloroethane   | 156-59-2    | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| Chloroform               | 67-66-3     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Benzene                  | 71-43-2     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloroethane       | 107-06-2    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Trichloroethene          | 79-01-6     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloropropane      | 78-87-5     | < 1.84        | U | 11.6 | 1.84 | ug/Kg |
| Bromodichloromethane     | 75-27-4     | < 1.84        | U | 11.6 | 1.84 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 9.4         | U | 11.6 | 9.4  | ug/Kg |
| Toluene                  | 108-88-3    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| t-1,3-Dichloropropene    | 10061-02-6  | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| 1,1,2-Trichloroethane    | 79-00-5     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| 2-Hexanone               | 591-78-6    | < 14          | U | 11.6 | 14   | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| Tetrachloroethene        | 127-18-4    | < 2.8         | U | 11.6 | 2.8  | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Ethyl Benzene            | 100-41-4    | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| m&p-Xylenes              | 136777-61-2 | < 6.6         | U | 11.6 | 6.6  | ug/Kg |
| o-Xylene                 | 95-47-6     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Styrene                  | 100-42-5    | < 3.2         | U | 11.6 | 3.2  | ug/Kg |
| Bromoform                | 75-25-2     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |

**Volatiles**  
**SW-846**

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07

Client ID: 01075SP06S02

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA060807 D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: YBA0608S2

Sample Wt/Wol: 2.5 Units: G

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 14

| Parameter                 | CAS Number | Concentration | C     | RDL    | MDL | Units   |
|---------------------------|------------|---------------|-------|--------|-----|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 2.4         | U     | 11.6   | 2.4 | ug/Kg   |
| <b>URROGATES</b>          |            |               |       |        |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 36.12         | 72 %  | 70-121 |     | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 49.22         | 98 %  | 80-120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 50.14         | 100 % | 81-117 |     | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 31.66         | 63 %  | 74-121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |        |     |         |
| pentafluorobenzene        | 363-72-4   | 1673818       | 5.97  |        |     |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1797054       | 7.74  |        |     |         |
| Chlorobenzene-d5          | 3114-55-4  | 1288167       | 13.96 |        |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 610940        | 19.47 |        |     |         |

**Volatiles**  
**SW-846**

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07RE

Client ID: 01075SP06S02RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061009.N

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: YBA0610S2

Sample Wt/Wol: 2.5 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 14

| Parameter                | CAS Number  | Concentration | C | RDL  | MDL  | Units |
|--------------------------|-------------|---------------|---|------|------|-------|
| <b>TARGETS</b>           |             |               |   |      |      |       |
| Chloromethane            | 74-87-3     | < 4.0         | U | 11.6 | 4.0  | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Bromomethane             | 74-83-9     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Chloroethane             | 75-00-3     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Acetone                  | 67-64-1     | 72            |   | 11.6 | 8.2  | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| Methylene Chloride       | 75-09-2     | < 3.0         | U | 11.6 | 3.0  | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | 10.6          | I | 11.6 | 2.0  | ug/Kg |
| 2-Butanone               | 78-93-3     | < 12.6        | U | 11.6 | 12.6 | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 4.8         | U | 11.6 | 4.8  | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| Chloroform               | 67-66-3     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| Benzene                  | 71-43-2     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloroethane       | 107-06-2    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Trichloroethene          | 79-01-6     | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| 1,2-Dichloropropane      | 78-87-5     | < 1.84        | U | 11.6 | 1.84 | ug/Kg |
| Bromodichloromethane     | 75-27-4     | < 1.84        | U | 11.6 | 1.84 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 9.4         | U | 11.6 | 9.4  | ug/Kg |
| Toluene                  | 108-88-3    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| t-1,3-Dichloropropene    | 10061-02-6  | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| 1,1,2-Trichloroethane    | 79-00-5     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| 2-Hexanone               | 591-78-6    | < 14          | U | 11.6 | 14   | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 2.0         | U | 11.6 | 2.0  | ug/Kg |
| Tetrachloroethene        | 127-18-4    | < 2.8         | U | 11.6 | 2.8  | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Ethyl Benzene            | 100-41-4    | < 2.4         | U | 11.6 | 2.4  | ug/Kg |
| m&p-Xylenes              | 136777-61-2 | < 6.6         | U | 11.6 | 6.6  | ug/Kg |
| o-Xylene                 | 95-47-6     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |
| Styrene                  | 100-42-5    | < 3.2         | U | 11.6 | 3.2  | ug/Kg |
| Bromoform                | 75-25-2     | < 2.6         | U | 11.6 | 2.6  | ug/Kg |

**Volatiles**  
SW-846

SDG No.: P2891

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P2891-07RE

Client ID: 01075SP06S02RE

Date Collected: 6/4/02

Date Received: 6/5/02

Date Analyzed: 6/10/02

Matrix: SOIL

File ID: VA061009.D

Analytical Run ID: MSVOAA

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: YBA0610S2

Sample Wt/Wet: 2.5 Units: G

Soil Extract Vol: \_\_\_\_\_

Soil Aliquot Vol: \_\_\_\_\_

% Moisture: 14

| Parameter                 | CAS Number | Concentration | C     | RDL    | MDL | Units   |
|---------------------------|------------|---------------|-------|--------|-----|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 2.4         | U     | 11.6   | 2.4 | ug/Kg   |
| <b>SURROGATES</b>         |            |               |       |        |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 45.91         | 92 %  | 70-121 |     | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 52.02         | 104 % | 80-120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 47.58         | 95 %  | 81-117 |     | SPK: 50 |
| 1-Bromofluorobenzene      | 460-00-4   | 31.56         | 63 %  | 74-121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |        |     |         |
| Pentafluorobenzene        | 363-72-4   | 1402214       | 5.91  |        |     |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1517309       | 7.72  |        |     |         |
| Chlorobenzene-d5          | 3114-55-4  | 1072616       | 13.93 |        |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 522633        | 19.44 |        |     |         |

# Premier Environmental Services

DATA USABILITY SUMMARY REPORT (DUSR)  
OF THE  
CORAL GRAPHICS – NEW SOUTH SOUTH ROAD SITE

ORGANIC AND INORGANIC ANALYSES  
IN AQUEOUS AND NON-AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP  
MOUNTAINSIDE, NEW JERSEY

REPORT NUMBER: S1330

June, 2004

Prepared for  
Nelson, Pope & Voorhis, LLC  
Melville, New York

Prepared by  
Premier Environmental Services  
2815 Covered Bridge Road  
Merrick, New York 11566  
(516)223-9761



### NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** Volatile Organic Analyses, Semivolatile Organic Analyses,  
**SITE:** Coral Graphics – New South Road  
Hicksville, New York  
**CONTRACT LAB:** Chemtech  
Mountainside, New Jersey  
**REVIEWER:** Renee Cohen  
**DATE REVIEW COMPLETED:** June, 2004  
**MATRIX:** Aqueous and Non Aqueous

The data validation was performed according to the guidelines described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment includes one (1) soil sample, one (1) Field Blank and one (1) Trip Blank (aqueous) sample collected February 4, 2004. The samples associated with this data set are summarized in Table 1 of this report. All of the samples were shipped to Chemtech Consulting Group, located in Mountainside, New Jersey. The samples were received at the laboratory on February 5, 2004 via Federal Express. All samples were received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260) and Semivolatile Organic Analytes (SVOA-EPA Method 8270) as specified on the Chain of Custody (COC) documentation that accompanied the samples to the laboratory. A copy of the COC documents associated with each data set is located in Appendix C of this report. Correspondence between this data validator and the laboratory are located in Appendix D of this report. In addition, the samples were analyzed for TAL Metals. The inorganic data review is located in the Inorganic Data Usability Summary Report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. OVERVIEW:**

The one (1) soil sample, one (1) Field Blank and one (1) Trip Blank sample were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for the organic analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260 and 8270. The laboratory provided a deliverables package in accordance with the guidelines in the NYSDEC ASP, Rev '95, Category B.

### **2. HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection. Semivolatile Organic analyses are to be prepared/extracted within five (5) days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly samples is to prepare the aqueous samples within 7 days of collection and the soil samples within fourteen days of collection.

#### **Volatile Organic Analyses**

The aqueous samples in this data set were analyzed for Volatile Organic Analytes. The samples and associated QC samples were analyzed within the ten (10) days of VTSR.

#### **Semivolatile Organic Analyses**

One (1) soil sample and the Field Blank sample were validated in this data set. The soil sample in this data set was extracted in one (1) batch on February 9, 2004. The Field Blank sample was extracted in an aqueous preparation batch on February 9, 2004. The samples in this data set were analyzed within the NYS DEC ASP holding time.

### **3. SURROGATES:**

**All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.**

**Volatile Organic Analyses** – Each sample was spiked with the surrogate compounds 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Toluene-d8 and Dibromofluoromethane. In-house surrogate recovery limits were reported by the laboratory. The percent recovery of each surrogate met QC criteria in each of the samples in this data set.

**Semivolatile Organic Analyses** – Each sample was spiked with the surrogate compounds 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14. The percent recovery of each surrogate met QC criteria in each of the sample analyses in this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:**

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

#### **Volatile Organic Analyses**

Batch QC was reported with this data set. No action was taken based on MS/MSD data alone.

#### **Semivolatile Organic Analyses**

Batch QC was reported with this data set. No action was taken based on MS/MSD data alone.

### **5. BLANK SPIKE ANALYSIS:**

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

#### **Volatile Organic Analytes**

The laboratory reported one (1) blank spike analysis with this data set. The blank spike sample was fortified with all reported analytes. The laboratory summarized the blank spike data on a CLP spike component summary form. The spike recoveries of each CLP analyte met QC criteria.

#### **Semivolatile Organic Analytes**

The laboratory performed one (1) blank spike analysis for each matrix in this data set. The aqueous blank spike sample was spiked with all reported analytes. All spike recoveries in the aqueous blank spike sample met QC criteria. The soil blank spike sample was spiked with all reported analytes. All spike recoveries in the soil blank spike sample met QC criteria with the exception of Hexachlorocyclopentadiene (255%), 2,4-Dinitrophenol (303%), 4,6-Dinitro-2-methylphenol (167%) and Pentachlorophenol (167%). These analytes were not detected in soil sample CP-1. No action was taken was on the recoveries in the soil Blank Spike sample.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

#### **A) Method Blank contamination**

##### **Volatile Organic Analyses**

One (1) aqueous method blank is associated with this data set. It was free from contamination of all target analytes and non-target (TIC) compounds.

One (1) soil method blank is associated with this data set. It was free from contamination of all target analytes and non-target (TIC) compounds.

##### **Semivolatile Organic Analyses**

One (1) aqueous method blank sample is associated with this data set. It was free from contamination of all target analytes with the exception of bis(2-ethylhexyl)phthalate (1.8 J ug/L). Four (4) Tentatively Identified Compounds (TIC's) were detected in this method blank sample. When detected in the associated aqueous Field Blank sample, they were negated.

Qualified data result pages are located in Appendix B of this report.

One (1) soil method blank sample is associated with this data set. It was free from contamination of all target analytes with the exception of bis(2-ethylhexyl)phthalate (36 J ug/L). One (1) ACP was detected in this method blank sample at retention time 2.28 minutes. Seven (7) Tentatively Identified Compounds (TIC's) were detected in this method blank sample. When detected in the associated soil sample, they were negated.

Qualified data result pages are located in Appendix B of this report.

#### **B) Field Blank contamination**

##### **Volatile Organic Analyses**

The Field Blank sample (FB204) was free from contamination of all target and non-target analytes.

##### **Semivolatile Organic Analyses**

The Field Blank sample (FB204) was free from contamination of all target analytes with the exception Bis (2-ethylhexyl)phthalate (2.9 J ug/L). In addition, four (4) TIC analytes were reported. When detected in the sample CP-1, they were negated and qualified "U".

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 6. BLANK CONTAMINATION (cont'd:

#### C) Trip Blank contamination

##### Volatile Organic Analyses

The Trip Blank sample (TRIP BLANK) was free from contamination of all target and non-target analytes.

### 7. GC/MS CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

#### A) RESPONSE FACTOR

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria is not met in an initial calibration the positive results are qualified "J". Non detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, effected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria is set for these analytes. If the minimum criteria is not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

##### Volatile Organic Analyses

Two (2) initial calibration curve analyses are associated with this data set. The laboratory performed an aqueous multi-level calibration curve on February 4, 2004 (Inst.I). The RRF for all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this calibration curve analysis. All response factors of the target analytes met QC criteria in this continuing calibration standard analysis.

The laboratory performed a soil multi-level calibration curve on February 13, 2004 (Inst.I). The RRF for all target compounds met QC criteria in this initial calibration curve.

##### Semivolatile Organic Analyses

Three (3) initial calibration curves are associated with this data set. The laboratory performed an aqueous initial multi level calibration on February 11, 2004 (Inst. A). The RRF of all target compounds met QC criteria in this initial calibration curve.

Two (2) continuing calibration standards are associated with the curve analysis on Instrument A. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **7. GC/MS CALIBRATION (cont'd)**

#### **A) RESPONSE FACTOR**

The laboratory performed a soil initial multi level calibration on January 9, 2004 (Inst. E). The RRF of all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standards are associated with the curve analysis on Instrument E. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

The laboratory performed a soil initial multi level calibration on February 11, 2004 (Inst. E). The RRF of all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standards are associated with the curve analysis on Instrument E. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

#### **B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgement. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unuseable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

#### **Volatile Organic Analyses**

Two (2) initial calibration curves are associated with this data set. The laboratory performed the aqueous multi level calibration on February 4, 2004 (Inst.I). The %RSD for all target compounds met QC criteria in this initial calibration curve for all target analytes.

One (1) continuing calibration standard analysis is associated with this data set. All % Difference criteria were met for all target analytes in each of the continuing calibration standard analyses with the exception of Tetrachloroethene (43.0%). Tetrachloroethene Chloride has been qualified "UJ/J" estimated in each of the aqueous samples in this data set.

Qualified data result pages are located in Appendix B of this report.

The laboratory performed the soil multi level calibration on February 13, 2004 (Inst.I). The %RSD for all target compounds met QC criteria in this initial calibration curve with the exception of Methylene Chloride (58.7%). Methylene Chloride has been qualified "UJ/J" estimated in the soil sample in this data set.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

##### Semivolatile Organic Analyses

Three (3) initial calibration curve analyses are associated with this data set. The laboratory performed an initial aqueous multi level calibration on February 11, 2004 (Inst. A). The %RSD criteria was met for all target compounds in this initial calibration curve with the exception of 2,4-Dinitrophenol (53.8%). This analyte has been qualified "UJ/J" estimated in the samples associated with this initial calibration curve analysis.

Two (2) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date    | File ID    | Analyte           | %Difference |
|---------|------------|-------------------|-------------|
| 2/12/04 | BA009115.D | 2,4-Dinitrophenol | 26.3        |

This target analyte has been qualified "UJ/J" estimated in the samples associated with the continuing calibration standard.

Qualified data result pages are located in Appendix B of this report.

The laboratory performed an initial soil multi level calibration on January 9, 2004 (Inst. E). The %RSD criteria were met for all target compounds in this initial calibration curve with the exception of Hexachlorocyclopentadiene (62.2%) and 2,4-Dinitrophenol (46.5%). These analytes have been qualified "UJ/J" estimated in the samples associated with this initial calibration curve analysis.

One (1) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date    | File ID    | Analyte                      | %Difference |
|---------|------------|------------------------------|-------------|
| 2/11/04 | BE009214.D | Bis (2-chloroethyl) ether    | 28.9        |
|         |            | 2,2-oxybis (1-chloropropane) | 38.5        |
|         |            | Hexachlorocyclopentadiene    | 83.0        |
|         |            | 2,4-Dinitrophenol            | 120.2       |

This continuing calibration standard is associated with the soil QC associated with this data set. Soil samples in this data set have not been qualified based on this continuing calibration standard analysis.

**DATA USABILITY SUMMARY REPORT (DUSR)  
CORAL GRAPHICS SITE**

**7. GC/MS CALIBRATION (cont'd)**

**B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D)  
(cont'd):**

**Semivolatile Organic Analyses**

The laboratory performed an initial soil multi level calibration on February 11, 2004 (Inst. E). The %RSD criteria were met for all target compounds in this initial calibration curve with the exception of Hexachlorocyclopentadiene (73.0%) and 2,4-Dinitrophenol (72.6%). These analytes have been qualified "UJ/J" estimated in the samples associated with this initial calibration curve analysis.

One (1) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date    | File ID    | Analyte                   | %Difference |
|---------|------------|---------------------------|-------------|
| 2/11/04 | BE009241.D | Hexachlorocyclopentadiene | 48.3        |
|         |            | 2,4-Dinitrophenol         | 39.1        |

These target analytes have been qualified "UJ/J" estimated in soil sample associated with the continuing calibration standard.

Qualified data result pages are located in Appendix B of this report.

**8. GC/MS MASS SPECTROMETER TUNING:**

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). The tuning compound for semivolatile organic analyses is decafluorotriphenylphosphine (DFTPP). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

Volatile Organic Analyses/ Semivolatile Organic Analyses – All Instrument Tuning criteria was met for these sample analyses.



## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **9. GC/MS INTERNAL STANDARDS PERFORMANCE:**

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than  $\pm 30$  seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria are applied to all field and QC samples.

#### **Volatile Organic Analyses**

All samples were fortified with the internal standards Tert Butyl Alcohol-d9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. All internal standard area criteria were met for the validated samples in this data set.

#### **Semivolatile Organic Analyses**

The samples were fortified with the internal standards 1,4-Dichlorobenzene-d4, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d12 and Perylene-d12. All internal standard area QC criteria were met for the samples in this data set.

### **10. COMPOUND IDENTIFICATION:**

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within  $\pm 0.06$  RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

#### **Volatile Organic Analyses**

The samples in this data set reported the VOA 8260 analytes specified on the COC documents. A Library Search was performed and reported with each of the samples in this data set. The laboratory reported the target analytes to the determined method detection limit. Soil sample results are reported on a dry weight basis. All of the samples were analyzed and reported without dilution.

#### **Semivolatile Organic Analyses**

The laboratory reported the Semivolatile Organic target analytes to the determined method detection limit. A Library Search was performed and reported with all samples in this data set. The validated samples were analyzed and reported without dilution.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **11. FIELD DUPLICATE SAMPLE ANALYSIS**

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples.

Duplicate samples are not associated with this data set.

### **12. OVERALL ASSESSMENT:**

Analytical QC criteria was met for these analyses. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package. All soil sample data was reported on a dry weight basis.

The data provided for this data set is acceptable for use, with the noted data qualifiers.

## NYS DEC Data Usability Summary Report

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| <b>DATA VALIDATION FOR:</b>   | <b>TAL Metals</b>                                             |
| <b>SITE:</b>                  | <b>Coral Graphics Site<br/>New South Road</b>                 |
| <b>CONTRACT LAB:</b>          | <b>Chemtech Consulting Group<br/>Mountainside, New Jersey</b> |
| <b>REVIEWER:</b>              | <b>Renee Cohen</b>                                            |
| <b>DATE REVIEW COMPLETED:</b> | <b>June, 2004</b>                                             |
| <b>MATRIX:</b>                | <b>Aqueous and Non-Aqueous</b>                                |

This data assessment is for one (1) soil sample, one (1) Field Blank and one (1) Trip Blank sample as listed below. The samples were collected on February 4, 2004 and shipped via Federal Express to Chemtech Consulting Group, located in Mountainside, New Jersey. All samples, with the exception of the Trip Blank were analyzed for the TAL Metals group. The samples were received at the laboratory on February 5, 2004. A copy of the Chain of Custody documents is located in Appendix C of this report.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set. Correspondence between this data validator and the laboratory is located in Appendix D of this data report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. HOLDING TIME**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

All sample analyses associated with Project ID: S1330 were prepared/digested and analyzed within the proper holding time.

### **2. CALIBRATION ANALYSIS**

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The soil sample was analyzed in one analytical sequence February 10, 2004. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria. The aqueous Field Blank sample was analyzed in one analytical sequence on February 13, 2004. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria.

Analysis for Cold Vapor Mercury is calibrated using multi point standards and calculating the correlation coefficient of the curve. One of the calibrations standards must be analyzed at the CRDL. The Mercury analyses associated with the soil sample in this data set was performed on February 10, 2004. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria. The Mercury analyses associated with the aqueous Field Blank sample in this data set was performed on February 11, 2004. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

### **3. CRDL STANDARD**

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

All ICP CRDL standards associated with this data set met QC criteria with the exception of Thallium in the CRDL standard associated with the aqueous Field Blank sample. Thallium has been qualified "UJ" estimated in the Field Blank sample in this data set.

Qualified data result pages re located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. INTERFERENCE CHECK STANDARD**

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferent metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

### **5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSIS**

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-200%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. If the matrix spike recovery is greater than 200%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

Batch QC was utilized for the soil sample in this data set. The soil sample (CP-1) was not qualified based on the results of Batch QC data.

### **6. POST DIGESTION SPIKE ANALYSIS**

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Chemtech Consulting Group did not perform post digestion spike analysis with this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **7. DUPLICATE SAMPLE ANALYSIS**

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Batch QC was utilized for the soil sample in this data set. The soil sample (CP-1) was not qualified based on the results of Batch QC data.

### **8. ICP SERIAL DILUTION**

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Batch QC was utilized for the soil sample in this data set. The soil sample (CP-1) was not qualified based on the results of Batch QC data.

### **9. BLANKS**

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

ICP Metals – The soil sample in this data set was prepared on February 9, 2004. This method blank was free from contamination of target analytes above the CRDL. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 2/9/04. This method blank was free from contamination of target analytes above the CRDL.

Mercury Analyses - The soil sample in this data set was prepared on February 9, 2004. This method blank was free from contamination. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 2/10/04. This method blank was free from contamination

One (1) field blank sample is associated with this data set. The Field Blank sample was free from contamination of all target analytes above the CRDL.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **10. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)**

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine if data should be qualified or rejected.

Chemtech prepared and analyzed an aqueous and soil LCS sample with each digestion batch associated with this data set. Recovery limits of 80%-120% were utilized for review of the aqueous LCS sample. Commercial recovery limits were listed with the soil LCS summary page. All LCS recoveries met QC limits.

### **11. INSTRUMENT QC DATA**

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech Consulting Group performed the required studies specified by the method.

### **12. COMPOUND IDENTIFICATION**

The target analyte results of sample CP-1 are reported on a dry weight basis. The laboratory did not include the data result page and raw data associated with the sample CP-1 in the original data report. The laboratory was contacted and the data result page and raw data was provided for review. A copy of the correspondence associated with this issue is located in Appendix D of this report.

### **13. FIELD DUPLICATE SAMPLE ANALYSIS**

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Analytes reported above the method detection limit are listed. Data was not qualified based on the RPD of field duplicate sample analyses.

A field sample was not collected in duplicate with this sample set.

### **14. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT**

This data set included the analysis of one (1) soil sample and one (1) Field Blank sample. The laboratory did not include the sample results and raw data associated with the soil sample in the initial submission. The laboratory was contacted and a stand-alone data report for the soil sample was provided for review. A copy of the correspondence associated with this issue is located in Appendix D of this report. The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. A description of the qualifiers and decision for them is detailed in the above report. Soil sample data results are reported in a dry weight basis.

The data associated with this data set is acceptable for use with the noted data qualifiers. Details of the data qualification added to the analyte are located in the above text.

# Premier Environmental Services

## TABLE 1



# Premier Environmental Services

## CLIENT SAMPLE ID

FB204  
TRIPBLANK  
CP-1

## LABORATORY SAMPLE ID

S1330-01  
S1330-02  
S1330-03

# *Premier Environmental Services*

## **APPENDIX A**

# Premier Environmental Services

## APPENDIX B

# Chemtech Consulting Group

## Volatiles SW-846

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |           |
|--------------------|------------|--------------------|-----------|
| Sample ID:         | S1330-01   | Client ID:         | FB2404    |
| Date Collected:    | 2/4/2004   | Date Received:     | 2/5/2004  |
| Date Analyzed:     | 2/9/2004   | Matrix:            | WATER     |
| File ID:           | VI020914.D | Analytical Run ID: | VI020404  |
| Dilution:          | 1          | Instrument ID:     | MSVOAI    |
| Analytical Method: | 8260       | Associated Blank:  | VBI0209W2 |
| Sample Wt/Wol:     | 5.0        | Soil Extract Vol:  |           |
| Soil Allquot Vol:  |            | % Moisture:        | 100       |

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Vinyl chloride           | 75-01-4     | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Bromomethane             | 74-83-9     | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Chloroethane             | 75-00-3     | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| 1,1-Dichloroethene       | 75-35-4     | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| Acetone                  | 67-64-1     | < 3.5         | U | 25  | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Methylene Chloride       | 75-09-2     | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3     | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 2-Butanone               | 78-93-3     | < 2.3         | U | 25  | 2.3  | ug/L  |
| Carbon Tetrachloride     | 56-23-5     | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3     | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1,1-Trichloroethane    | 71-55-6     | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Benzene                  | 71-43-2     | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,2-Dichloroethane       | 107-06-2    | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| Trichloroethene          | 79-01-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,2-Dichloropropane      | 78-87-5     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| Bromodichloromethane     | 75-27-4     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 0.81        | U | 25  | 0.81 | ug/L  |
| Toluene                  | 108-88-3    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| t-1,3-Dichloropropene    | 10061-02-6  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1,2-Trichloroethane    | 79-00-5     | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| 2-Hexanone               | 591-78-6    | < 0.60        | U | 25  | 0.60 | ug/L  |
| Dibromochloromethane     | 124-48-1    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Tetrachloroethene        | 127-18-4    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Chlorobenzene            | 108-90-7    | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene            | 100-41-4    | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| m/p-Xylenes              | 136777-61-2 | < 1.5         | U | 5.0 | 1.5  | ug/L  |
| o-Xylene                 | 95-47-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Styrene                  | 100-42-5    | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| Bromoform                | 75-25-2     | < 0.49        | U | 5.0 | 0.49 | ug/L  |

# Chemtech Consulting Group

## Volatiles SW-846

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |           |
|--------------------|------------|--------------------|-----------|
| Sample ID:         | S1330-01   | Client ID:         | FB2404    |
| Date Collected:    | 2/4/2004   | Date Received:     | 2/5/2004  |
| Date Analyzed:     | 2/9/2004   | Matrix:            | WATER     |
| File ID:           | VI020914.D | Analytical Run ID: | VI020404  |
| Dilution:          | 1          | Instrument ID:     | MSVOAI    |
| Analytical Method: | 8260       | Associated Blank:  | VBI0209W2 |
| Sample Wt/Wol:     | 5.0        | Soil Extract Vol:  |           |
| Soil Aliquot Vol:  |            | % Moisture:        | 100       |

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U     | 5.0      | 0.70 | ug/L    |
| <b>SURROGATES</b>         |            |               |       |          |      |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 50.33         | 101 % | 68 - 135 |      | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 56.15         | 112 % | 70 - 125 |      | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 52.04         | 104 % | 70 - 125 |      | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 53.12         | 106 % | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |      |         |
| Pentafluorobenzene        | 363-72-4   | 677133        | 4.04  |          |      |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1216156       | 4.50  |          |      |         |
| Chlorobenzene-d5          | 3114-55-4  | 1088486       | 7.57  |          |      |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 522848        | 9.80  |          |      |         |

# Chemtech Consulting Group

## Volatiles SW-846

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |               |                    |           |
|--------------------|---------------|--------------------|-----------|
| Sample ID:         | S1330-02      | Client ID:         | TRIPBLANK |
| Date Collected:    | 2/4/2004      | Date Received:     | 2/5/2004  |
| Date Analyzed:     | 2/9/2004      | Matrix:            | WATER     |
| File ID:           | VI020915.D    | Analytical Run ID: | VI020404  |
| Dilution:          | 1             | Instrument ID:     | MSVOAI    |
| Analytical Method: | 8260          | Associated Blank:  | VB10209W2 |
| Sample Wt/Wol:     | 5.0 Units: mL | Soil Extract Vol:  |           |
| Soil Aliquot Vol:  |               | % Moisture:        | 100       |

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Vinyl chloride           | 75-01-4     | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Bromomethane             | 74-83-9     | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Chloroethane             | 75-00-3     | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| 1,1-Dichloroethene       | 75-35-4     | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| Acetone                  | 67-64-1     | < 3.5         | U | 25  | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Methylene Chloride       | 75-09-2     | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3     | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 2-Butanone               | 78-93-3     | < 2.3         | U | 25  | 2.3  | ug/L  |
| Carbon Tetrachloride     | 56-23-5     | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3     | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1,1-Trichloroethane    | 71-55-6     | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Benzene                  | 71-43-2     | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,2-Dichloroethane       | 107-06-2    | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| Trichloroethene          | 79-01-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,2-Dichloropropane      | 78-87-5     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| Bromodichloromethane     | 75-27-4     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 0.81        | U | 25  | 0.81 | ug/L  |
| Toluene                  | 108-88-3    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| t-1,3-Dichloropropene    | 10061-02-6  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1,2-Trichloroethane    | 79-00-5     | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| 2-Hexanone               | 591-78-6    | < 0.60        | U | 25  | 0.60 | ug/L  |
| Dibromochloromethane     | 124-48-1    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Tetrachloroethene        | 127-18-4    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Chlorobenzene            | 108-90-7    | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene            | 100-41-4    | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| m/p-Xylenes              | 136777-61-2 | < 1.5         | U | 5.0 | 1.5  | ug/L  |
| o-Xylene                 | 95-47-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Styrene                  | 100-42-5    | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| Bromoform                | 75-25-2     | < 0.49        | U | 5.0 | 0.49 | ug/L  |

# Chemtech Consulting Group

## Volatiles SW-846

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1330-02

Client ID: TRIPBLANK

Date Collected: 2/4/2004

Date Received: 2/5/2004

Date Analyzed: 2/9/2004

Matrix: WATER

File ID: VI020915.D

Analytical Run ID: VI020404

Dilution: 1

Instrument ID: MSVOAI

Analytical Method: 8260

Associated Blank: VBI0209W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U     | 5.0      | 0.70 | ug/L    |
| <b>SURROGATES</b>         |            |               |       |          |      |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 50.16         | 100 % | 68 - 135 |      | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 55.67         | 111 % | 70 - 125 |      | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 54.2          | 108 % | 70 - 125 |      | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 54.1          | 108 % | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |      |         |
| Pentafluorobenzene        | 363-72-4   | 679706        | 4.05  |          |      |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1185436       | 4.51  |          |      |         |
| Chlorobenzene-d5          | 3114-55-4  | 1052780       | 7.57  |          |      |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 528219        | 9.80  |          |      |         |

# Chemtech Consulting Group

## Volatiles SW-846

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |           |
|--------------------|------------|--------------------|-----------|
| Sample ID:         | S1330-03   | Client ID:         | CP-1      |
| Date Collected:    | 2/4/2004   | Date Received:     | 2/5/2004  |
| Date Analyzed:     | 2/14/2004  | Matrix:            | SOIL      |
| File ID:           | VI021329.D | Analytical Run ID: | VI021304  |
| Dilution:          | 1          | Instrument ID:     | MSVOAI    |
| Analytical Method: | 8260       | Associated Blank:  | VBI0213S2 |
| Sample Wt/Wol:     | 5.0        | Soil Extract Vol:  |           |
| Soil Aliquot Vol:  |            | % Moisture:        | 3         |

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 1.8         | U | 5.2 | 1.8  | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Bromomethane             | 74-83-9     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Chloroethane             | 75-00-3     | < 1.3         | U | 5.2 | 1.3  | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Acetone                  | 67-64-1     | < 3.6         | U | 26  | 3.6  | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 1.3         | U | 5.2 | 1.3  | ug/Kg |
| Methylene Chloride       | 75-09-2     | < 1.3         | U | 5.2 | 1.3  | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | < 0.93        | U | 5.2 | 0.93 | ug/Kg |
| 2-Butanone               | 78-93-3     | < 5.2         | U | 26  | 5.2  | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 2.2         | U | 5.2 | 2.2  | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 0.93        | U | 5.2 | 0.93 | ug/Kg |
| Chloroform               | 67-66-3     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| Benzene                  | 71-43-2     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,2-Dichloroethane       | 107-06-2    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Trichloroethene          | 79-01-6     | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| 1,2-Dichloropropane      | 78-87-5     | < 0.82        | U | 5.2 | 0.82 | ug/Kg |
| Bromodichloromethane     | 75-27-4     | < 0.82        | U | 5.2 | 0.82 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 4.1         | U | 26  | 4.1  | ug/Kg |
| Toluene                  | 108-88-3    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 1,3-Dichloropropene      | 10061-02-6  | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 0.93        | U | 5.2 | 0.93 | ug/Kg |
| 1,1,2-Trichloroethane    | 79-00-5     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| 2-Hexanone               | 591-78-6    | < 5.2         | U | 26  | 5.2  | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 0.93        | U | 5.2 | 0.93 | ug/Kg |
| Tetrachloroethene        | 127-18-4    | < 1.2         | U | 5.2 | 1.2  | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Ethyl Benzene            | 100-41-4    | < 1.0         | U | 5.2 | 1.0  | ug/Kg |
| m/p-Xylenes              | 136777-61-2 | < 2.9         | U | 5.2 | 2.9  | ug/Kg |
| o-Xylene                 | 95-47-6     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |
| Styrene                  | 100-42-5    | < 1.4         | U | 5.2 | 1.4  | ug/Kg |
| Bromoform                | 75-25-2     | < 1.1         | U | 5.2 | 1.1  | ug/Kg |



# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |           |
|--------------------|------------|--------------------|-----------|
| Sample ID:         | S1330-03   | Client ID:         | CP-1      |
| Date Collected:    | 2/4/2004   | Date Received:     | 2/5/2004  |
| Date Analyzed:     | 2/14/2004  | Matrix:            | SOIL      |
| File ID:           | VI021329.D | Analytical Run ID: | VI021304  |
| Dilution:          | 1          | Instrument ID:     | MSVOAI    |
| Analytical Method: | 8260       | Associated Blank:  | VBI0213S2 |
| Sample Wt/Wol:     | 5.0        | Soil Extract Vol:  |           |
| Soil Aliquot Vol:  |            | % Moisture:        | 3         |

| Parameter                 | CAS Number | Concentration | C    | RDL      | MDL | Units   |
|---------------------------|------------|---------------|------|----------|-----|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 1.0         | U    | 5.2      | 1.0 | ug/Kg   |
| <b>SURROGATES</b>         |            |               |      |          |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 44.9          | 90 % | 70 - 121 |     | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 49.09         | 98 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 47.27         | 95 % | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 45.54         | 91 % | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |      |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 281649        | 4.07 |          |     |         |
| 1,4-Difluorobenzene       | 540-36-3   | 608396        | 4.53 |          |     |         |
| Chlorobenzene-d5          | 3114-55-4  | 520220        | 7.60 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 222829        | 9.82 |          |     |         |

## SVOC-TCL BNA -20

SDG No.: S1330

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1330-01

Client ID: FB2404

Date Collected: 2/4/2004

Date Received: 2/5/2004

Date Analyzed: 2/13/2004

Matrix: WATER

Date Extracted: 2/9/2004

File ID: BA009133.D

Dilution: 1

Instrument ID: BNAA

Analytical Method: 8270

Analytical Run ID: BA021104

Sample Wt/Wol: 910.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB12717B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>              |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 1.1         | U | 11  | 1.1 | ug/L  |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 1.3         | U | 11  | 1.3 | ug/L  |
| 2-Chlorophenol              | 95-57-8    | < 1.2         | U | 11  | 1.2 | ug/L  |
| 1,2-Dichlorobenzene         | 95-50-1    | < 1.1         | U | 11  | 1.1 | ug/L  |
| 1,3-Dichlorobenzene         | 541-73-1   | < 1.3         | U | 11  | 1.3 | ug/L  |
| 1,4-Dichlorobenzene         | 106-46-7   | < 1.1         | U | 11  | 1.1 | ug/L  |
| 2-Methylphenol              | 95-48-7    | < 1.1         | U | 11  | 1.1 | ug/L  |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 1.1         | U | 11  | 1.1 | ug/L  |
| 3+4-Methylphenols           | 106-44-5   | < 2.0         | U | 11  | 2.0 | ug/L  |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 1.1         | U | 11  | 1.1 | ug/L  |
| Hexachloroethane            | 67-72-1    | < 1.2         | U | 11  | 1.2 | ug/L  |
| Nitrobenzene                | 98-95-3    | < 1.1         | U | 11  | 1.1 | ug/L  |
| Isophorone                  | 78-59-1    | < 1.1         | U | 11  | 1.1 | ug/L  |
| 2-Nitrophenol               | 88-75-5    | < 1.2         | U | 11  | 1.2 | ug/L  |
| 2,4-Dimethylphenol          | 105-67-9   | < 2.5         | U | 11  | 2.5 | ug/L  |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 1.1         | U | 11  | 1.1 | ug/L  |
| 2,4-Dichlorophenol          | 120-83-2   | < 1.4         | U | 11  | 1.4 | ug/L  |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 1.3         | U | 11  | 1.3 | ug/L  |
| Naphthalene                 | 91-20-3    | < 1.3         | U | 11  | 1.3 | ug/L  |
| 4-Chloroaniline             | 106-47-8   | < 1.3         | U | 11  | 1.3 | ug/L  |
| Hexachlorobutadiene         | 87-68-3    | < 1.6         | U | 11  | 1.6 | ug/L  |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 1.2         | U | 11  | 1.2 | ug/L  |
| 2-Methylnaphthalene         | 91-57-6    | < 1.3         | U | 11  | 1.3 | ug/L  |
| Hexachlorocyclopentadiene   | 77-47-4    | < 4.2         | U | 11  | 4.2 | ug/L  |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 1.1         | U | 11  | 1.1 | ug/L  |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 1.1         | U | 11  | 1.1 | ug/L  |
| 2-Chloronaphthalene         | 91-58-7    | < 1.3         | U | 11  | 1.3 | ug/L  |
| 2-Nitroaniline              | 88-74-4    | < 1.1         | U | 11  | 1.1 | ug/L  |
| Dimethylphthalate           | 131-11-3   | < 1.1         | U | 11  | 1.1 | ug/L  |
| Acenaphthylene              | 208-96-8   | < 1.3         | U | 11  | 1.3 | ug/L  |
| 2,6-Dinitrotoluene          | 606-20-2   | < 1.1         | U | 11  | 1.1 | ug/L  |

# Chemtech Consulting Group

## SVOC-TCL BNA -20

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |                  |                    |                   |
|--------------------|------------------|--------------------|-------------------|
| Sample ID:         | <u>S1330-01</u>  | Client ID:         | <u>FB2404</u>     |
| Date Collected:    | <u>2/4/2004</u>  | Date Received:     | <u>2/5/2004</u>   |
| Date Analyzed:     | <u>2/13/2004</u> | Matrix:            | <u>WATER</u>      |
| Date Extracted:    | <u>2/9/2004</u>  | File ID:           | <u>RA009133.D</u> |
| Dilution:          | <u>1</u>         | Instrument ID:     | <u>BNAA</u>       |
| Analytical Method: | <u>8270</u>      | Analytical Run ID: | <u>BA021104</u>   |
| Sample Wt/Wol:     | <u>910.0</u>     | Extract Vol:       | <u>1000</u>       |
| Injection Vol:     | <u>2</u>         | % Moisture:        | <u>100</u>        |
| Associated Blank:  | <u>PB12717B</u>  |                    |                   |

| Parameter                  | CAS Number | Concentration    | C            | RDL | MDL   | Units |
|----------------------------|------------|------------------|--------------|-----|-------|-------|
| <b>TARGETS</b>             |            |                  |              |     |       |       |
| 3-Nitroaniline             | 99-09-2    | < 1.3            | U            | 11  | 1.3   | ug/L  |
| Acenaphthene               | 83-32-9    | < 1.1            | U            | 11  | 1.1   | ug/L  |
| 2,4-Dinitrophenol          | 51-28-5    | < 2.2 <i>U J</i> | U            | 11  | 2.2   | ug/L  |
| 4-Nitrophenol              | 100-02-7   | < 1.2            | U            | 11  | 1.2   | ug/L  |
| Dibenzofuran               | 132-64-9   | < 1.1            | U            | 11  | 1.1   | ug/L  |
| 2,4-Dinitrotoluene         | 121-14-2   | < 1.2            | U            | 11  | 1.2   | ug/L  |
| Diethylphthalate           | 84-66-2    | < 1.1            | U            | 11  | 1.1   | ug/L  |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 1.3            | U            | 11  | 1.3   | ug/L  |
| Fluorene                   | 86-73-7    | < 1.2            | U            | 11  | 1.2   | ug/L  |
| 4-Nitroaniline             | 100-01-6   | < 2.6            | U            | 11  | 2.6   | ug/L  |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 1.3            | U            | 11  | 1.3   | ug/L  |
| N-Nitrosodiphenylamine     | 86-30-6    | < 2.2            | U            | 11  | 2.2   | ug/L  |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 1.4            | U            | 11  | 1.4   | ug/L  |
| Hexachlorobenzene          | 118-74-1   | < 1.2            | U            | 11  | 1.2   | ug/L  |
| Pentachlorophenol          | 87-86-5    | < 2.1            | U            | 11  | 2.1   | ug/L  |
| Phenanthrene               | 85-01-8    | < 1.1            | U            | 11  | 1.1   | ug/L  |
| Anthracene                 | 120-12-7   | < 1.4            | U            | 11  | 1.4   | ug/L  |
| Carbazole                  | 86-74-8    | < 0.460          | U            | 11  | 0.460 | ug/L  |
| Di-n-butylphthalate        | 84-74-2    | < 1.3            | U            | 11  | 1.3   | ug/L  |
| Fluoranthene               | 206-44-0   | < 1.1            | U            | 11  | 1.1   | ug/L  |
| Pyrene                     | 129-00-0   | < 1.1            | U            | 11  | 1.1   | ug/L  |
| Butylbenzylphthalate       | 85-68-7    | < 1.1            | U            | 11  | 1.1   | ug/L  |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 1.1            | U            | 11  | 1.1   | ug/L  |
| Benzo(a)anthracene         | 56-55-3    | < 1.1            | U            | 11  | 1.1   | ug/L  |
| Chrysene                   | 218-01-9   | < 1.8            | U            | 11  | 1.8   | ug/L  |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 2.9 <i>U</i>     | <del>U</del> | 11  | 1.1   | ug/L  |
| Di-n-octyl phthalate       | 117-84-0   | < 1.6            | U            | 11  | 1.6   | ug/L  |
| Benzo(b)fluoranthene       | 205-99-2   | < 1.1            | U            | 11  | 1.1   | ug/L  |
| Benzo(k)fluoranthene       | 207-08-9   | < 2.9            | U            | 11  | 2.9   | ug/L  |
| Benzo(a)pyrene             | 50-32-8    | < 1.6            | U            | 11  | 1.6   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 1.8            | U            | 11  | 1.8   | ug/L  |

# Chemtech Consulting Group

## SVOC-TCL BNA -20

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |                  |                    |                   |
|--------------------|------------------|--------------------|-------------------|
| Sample ID:         | <u>S1330-01</u>  | Client ID:         | <u>FB2404</u>     |
| Date Collected:    | <u>2/4/2004</u>  | Date Received:     | <u>2/5/2004</u>   |
| Date Analyzed:     | <u>2/13/2004</u> | Matrix:            | <u>WATER</u>      |
| Date Extracted:    | <u>2/9/2004</u>  | File ID:           | <u>BA009133.D</u> |
| Dilution:          | <u>1</u>         | Instrument ID:     | <u>BNAA</u>       |
| Analytical Method: | <u>8270</u>      | Analytical Run ID: | <u>BA021104</u>   |
| Sample Wt/Wol:     | <u>910.0</u>     | Extract Vol:       | <u>1000</u>       |
| Injection Vol:     | <u>2</u>         | % Moisture:        | <u>100</u>        |
| Associated Blank:  | <u>PE12717B</u>  |                    |                   |

| Parameter                                | CAS Number | Concentration  | C             | RDL      | MDL | Units    |
|------------------------------------------|------------|----------------|---------------|----------|-----|----------|
| <b>TARGETS</b>                           |            |                |               |          |     |          |
| Dibenz(a,h)anthracene                    | 53-70-3    | < 1.6          | U             | 11       | 1.6 | ug/L     |
| Benzo(g,h,i)perylene                     | 191-24-2   | < 1.4          | U             | 11       | 1.4 | ug/L     |
| <b>SURROGATES</b>                        |            |                |               |          |     |          |
| 2-Fluorophenol                           | 367-12-4   | 98.18          | 33 %          | 21 - 100 |     | SPK: 300 |
| Phenol-d5                                | 13127-88-3 | 57.41          | 19 %          | 10 - 94  |     | SPK: 300 |
| Nitrobenzene-d5                          | 4165-60-0  | 141.26         | 71 %          | 35 - 114 |     | SPK: 200 |
| 2-Fluorobiphenyl                         | 321-60-8   | 139.76         | 70 %          | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                     | 118-79-6   | 260.39         | 87 %          | 10 - 123 |     | SPK: 300 |
| Terphenyl-d14                            | 1718-51-0  | 153.69         | 77 %          | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>                |            |                |               |          |     |          |
| 1,4-Dichlorobenzene-d4                   | 3855-82-1  | 171232         | 5.88          |          |     |          |
| Naphthalene-d8                           | 1146-65-2  | 559170         | 8.20          |          |     |          |
| Acenaphthene-d10                         | 15067-26-2 | 388640         | 11.59         |          |     |          |
| Phenanthrene-d10                         | 1517-22-2  | 633774         | 14.47         |          |     |          |
| Chrysene-d12                             | 1719-03-5  | 577968         | 19.66         |          |     |          |
| Perylene-d12                             | 1520-96-3  | 518019         | 22.27         |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b>    |            |                |               |          |     |          |
| Hexadecanoic acid                        | 57103      | <del>14</del>  | <del>J</del>  | 15.79    |     | ug/L     |
| Butyl hexadecanoate                      | 0          | <del>140</del> | <del>JB</del> | 17.18    |     | ug/L     |
| Unknown                                  |            | 13             | J             | 20.81    |     | ug/L     |
| .Psi.,psi.-Carotene, 7,7,8,8,11,11,11,11 | 502625     | 9.0            | J             | 21.54    |     | ug/L     |

## SVOC-TCL BNA -20

SDG No.: S1330

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1330-03

Client ID: CP-1

Date Collected: 2/4/2004

Date Received: 2/5/2004

Date Analyzed: 2/11/2004

Matrix: SOIL

Date Extracted: 2/9/2004

File ID: BE009250.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE021104

Sample Wt/Wol: 15.1

Extract Vol: 500

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12721B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>              |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 34          | U | 340 | 34  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 40          | U | 340 | 40  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 37          | U | 340 | 37  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 40          | U | 340 | 40  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 34          | U | 340 | 34  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 34          | U | 340 | 34  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 34          | U | 340 | 34  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 61          | U | 340 | 61  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 37          | U | 340 | 37  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 34          | U | 340 | 34  | ug/Kg |
| Isophorone                  | 78-59-1    | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 37          | U | 340 | 37  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 78          | U | 340 | 78  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 44          | U | 340 | 44  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 40          | U | 340 | 40  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 40          | U | 340 | 40  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 51          | U | 340 | 51  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 37          | U | 340 | 37  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130         | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 34          | U | 340 | 34  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 34          | U | 850 | 34  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 40          | U | 340 | 40  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 34          | U | 850 | 34  | ug/Kg |
| Dimethylphthalate           | 131-11-3   | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 40          | U | 340 | 40  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 34          | U | 340 | 34  | ug"   |

# Chemtech Consulting Group

## SVOC-TCL BNA -20

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |                  |                    |                   |
|--------------------|------------------|--------------------|-------------------|
| Sample ID:         | <u>S1330-03</u>  | Client ID:         | <u>CP-1</u>       |
| Date Collected:    | <u>2/4/2004</u>  | Date Received:     | <u>2/5/2004</u>   |
| Date Analyzed:     | <u>2/11/2004</u> | Matrix:            | <u>SOIL</u>       |
| Date Extracted:    | <u>2/9/2004</u>  | File ID:           | <u>BE009250.D</u> |
| Dilution:          | <u>1</u>         | Instrument ID:     | <u>BNAE</u>       |
| Analytical Method: | <u>8270</u>      | Analytical Run ID: | <u>BE021104</u>   |
| Sample Wt/Wol:     | <u>15.1</u>      | Extract Vol:       | <u>500</u>        |
| Injection Vol:     | <u>2</u>         | % Moisture:        | <u>3</u>          |
| Associated Blank:  | <u>PB12721B</u>  |                    |                   |

| Parameter                  | CAS Number | Concentration     | C            | RDL | MDL | Units             |
|----------------------------|------------|-------------------|--------------|-----|-----|-------------------|
| <b>TARGETS</b>             |            |                   |              |     |     |                   |
| 3-Nitroaniline             | 99-09-2    | < 40              | U            | 850 | 40  | ug/Kg             |
| Acenaphthene               | 83-32-9    | < 40              | U            | 340 | 40  | ug/Kg             |
| 2,4-Dinitrophenol          | 51-28-5    | < 67 <sup>U</sup> | U            | 850 | 67  | ug/Kg             |
| 4-Nitrophenol              | 100-02-7   | < 37              | U            | 850 | 37  | ug/Kg             |
| Dibenzofuran               | 132-64-9   | < 34              | U            | 340 | 34  | ug/Kg             |
| 2,4-Dinitrotoluene         | 121-14-2   | < 37              | U            | 340 | 37  | ug/Kg             |
| Diethylphthalate           | 84-66-2    | < 34              | U            | 340 | 34  | ug/Kg             |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 40              | U            | 340 | 40  | ug/Kg             |
| Fluorene                   | 86-73-7    | < 37              | U            | 340 | 37  | ug/Kg             |
| 4-Nitroaniline             | 100-01-6   | < 81              | U            | 850 | 81  | ug/Kg             |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 40              | U            | 850 | 40  | ug/Kg             |
| N-Nitrosodiphenylamine     | 86-30-6    | < 67              | U            | 340 | 67  | ug/Kg             |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 44              | U            | 340 | 44  | ug/Kg             |
| Hexachlorobenzene          | 118-74-1   | < 37              | U            | 340 | 37  | ug/Kg             |
| Pentachlorophenol          | 87-86-5    | < 64              | U            | 850 | 64  | ug/Kg             |
| Phenanthrene               | 85-01-8    | < 34              | U            | 340 | 34  | ug/Kg             |
| Anthracene                 | 120-12-7   | < 44              | U            | 340 | 44  | ug/Kg             |
| Carbazole                  | 86-74-8    | < 14              | U            | 340 | 14  | ug/Kg             |
| Di-n-butylphthalate        | 84-74-2    | < 40              | U            | 340 | 40  | ug/Kg             |
| Fluoranthene               | 206-44-0   | < 34              | U            | 340 | 34  | ug/Kg             |
| Pyrene                     | 129-00-0   | < 34              | U            | 340 | 34  | ug/Kg             |
| Butylbenzylphthalate       | 85-68-7    | < 34              | U            | 340 | 34  | ug/Kg             |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 34              | U            | 340 | 34  | ug/Kg             |
| Benzo(a)anthracene         | 56-55-3    | < 34              | U            | 340 | 34  | ug/Kg             |
| Chrysene                   | 218-01-9   | < 54              | U            | 340 | 54  | ug/Kg             |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 35 <sup>U</sup>   | <del>U</del> | 340 | 34  | ug/Kg             |
| Di-n-octyl phthalate       | 117-84-0   | < 51              | U            | 340 | 51  | ug/Kg             |
| Benzo(b)fluoranthene       | 205-99-2   | < 34              | U            | 340 | 34  | ug/Kg             |
| Benzo(k)fluoranthene       | 207-08-9   | < 88              | U            | 340 | 88  | ug/Kg             |
| Benzo(a)pyrene             | 50-32-8    | < 51              | U            | 340 | 51  | ug/Kg             |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 54              | U            | 340 | 54  | ug <sup>---</sup> |

# Chemtech Consulting Group

## SVOC-TCL BNA -20

SDG No.: S1330

Client: Nelson, Pope & Voorhis, LLC

|                    |           |                    |            |
|--------------------|-----------|--------------------|------------|
| Sample ID:         | S1330-03  | Client ID:         | CP-1       |
| Date Collected:    | 2/4/2004  | Date Received:     | 2/5/2004   |
| Date Analyzed:     | 2/11/2004 | Matrix:            | SOIL       |
| Date Extracted:    | 2/9/2004  | File ID:           | RE009250.D |
| Dilution:          | 1         | Instrument ID:     | BNAE       |
| Analytical Method: | 8270      | Analytical Run ID: | BE021104   |
| Sample Wt/Wol:     | 15.1      | Extract Vol:       | 500        |
| Injection Vol:     | 2         | % Moisture:        | 3          |
| Associated Blank:  | PB12721B  |                    |            |

| Parameter                             | CAS Number | Concentration  | C             | RDL      | MDL | Units    |
|---------------------------------------|------------|----------------|---------------|----------|-----|----------|
| <b>TARGETS</b>                        |            |                |               |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 51           | U             | 340      | 51  | ug/Kg    |
| Benzo(g,h,i)perylene                  | 191-24-2   | < 44           | U             | 340      | 44  | ug/Kg    |
| <b>SURROGATES</b>                     |            |                |               |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 301.29         | 100 %         | 25 - 121 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 299.56         | 100 %         | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 209.3          | 105 %         | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 208.82         | 104 %         | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 303.42         | 101 %         | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 210.63         | 105 %         | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |                |               |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 169676         | 3.97          |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 512576         | 5.41          |          |     |          |
| Acenaphthene-d10                      | 15067-26-2 | 287638         | 7.50          |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 479074         | 9.30          |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 457919         | 12.55         |          |     |          |
| Perylene-d12                          | 1520-96-3  | 420579         | 14.20         |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |                |               |          |     |          |
| 3-Penten-2-one, 4-methyl-             | 141797     | 160            | J             | 1.76     |     | ug/Kg    |
| ACP                                   |            | <del>310</del> | <del>AB</del> | 2.28     |     | ug/Kg    |
| Acetamide, N-(2,4-dimethylphenyl      | 2050433    | <del>200</del> | <del>JB</del> | 7.79     |     | ug/Kg    |
| Heptane, 3,3-[oxybis(methylene)]b     | 10143609   | <del>170</del> | <del>JB</del> | 8.02     |     | ug/Kg    |
| Hexadecanoic acid                     | 57103      | <del>570</del> | <del>J</del>  | 10.08    |     | ug/Kg    |
| Dodecanamide                          | 1120167    | 110            | J             | 13.54    |     | ug/Kg    |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC      SDG No.: S1330      Method Type: SW846

Sample ID: S1330-01Client ID: FB2404Contract: Nelson, Pope & Voorhis, LLCLab Code: CHEMEDCase No.: S1330SAS No.: S1330Matrix: WATERDate Received: 2/5/04Level: LOW% Solids: Sample Wt/Vol: 100.0Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 180           | ug/L  | U |      | P  | 180  | P2            | P202134        |
| Antimony  | 7440-36-0 | 20.0          | ug/L  | J |      | P  | 6.6  | P2            | P202134        |
| Arsenic   | 7440-38-2 | 4.8           | ug/L  | U |      | P  | 4.8  | P2            | P202134        |
| Barium    | 7440-39-3 | 11.0          | ug/L  | U |      | P  | 11.0 | P2            | P202134        |
| Beryllium | 7440-41-7 | 1.1           | ug/L  | U |      | P  | 1.1  | P2            | P202134        |
| Cadmium   | 7440-43-9 | 0.99          | ug/L  | U |      | P  | 0.99 | P2            | P202134        |
| Calcium   | 7440-70-2 | 1740          | ug/L  | U |      | P  | 1740 | P2            | P202134        |
| Chromium  | 7440-47-3 | 2.4           | ug/L  | J |      | P  | 1.2  | P2            | P202134        |
| Cobalt    | 7440-48-4 | 2.4           | ug/L  | U |      | P  | 2.4  | P2            | P202134        |
| Copper    | 7440-50-8 | 0.74          | ug/L  | U |      | P  | 0.74 | P2            | P202134        |
| Iron      | 7439-89-6 | 29.0          | ug/L  | U |      | P  | 29.0 | P2            | P202134        |
| Lead      | 7439-92-1 | 1.8           | ug/L  | U |      | P  | 1.8  | P2            | P202134        |
| Magnesium | 7439-95-4 | 254           | ug/L  | U |      | P  | 254  | P2            | P202134        |
| Manganese | 7439-96-5 | 0.20          | ug/L  | U |      | P  | 0.20 | P2            | P202134        |
| Mercury   | 7439-97-6 | 0.20          | ug/L  | U |      | CV | 0.20 | CV2           | 021104B        |
| Nickel    | 7440-02-0 | 5.5           | ug/L  | U |      | P  | 5.5  | P2            | P202134        |
| Potassium | 7440-09-7 | 122           | ug/L  | J |      | P  | 51.0 | P2            | P202134        |
| Selenium  | 7782-49-2 | 5.2           | ug/L  | U |      | P  | 5.2  | P2            | P202134        |
| Silver    | 7440-22-4 | 3.4           | ug/L  | U |      | P  | 3.4  | P2            | P202134        |
| Sodium    | 7440-23-5 | 1100          | ug/L  | J |      | P  | 189  | P2            | P202134        |
| Thallium  | 7440-28-0 | 5.8           | ug/L  | U |      | P  | 5.8  | P2            | P202134        |
| Vanadium  | 7440-62-2 | 4.9           | ug/L  | U |      | P  | 4.9  | P2            | P202134        |
| Zinc      | 7440-66-6 | 8.1           | ug/L  | U |      | P  | 8.1  | P2            | P202134        |



# Premier Environmental Services

## APPENDIX C



## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

CHEMTECH JOB NO.:

S1330

CHEMTECH QUOTE NO.:

## CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: NELSON, PIRE &amp; VOORHIES

ADDRESS: 572 WEST WARD RD.

CITY: MELBOURNE STATE: NY ZIP: 11707

ATTENTION: EXEC ASST

PHONE: (631)-427-4665

FAX:

## PROJECT INFORMATION

PROJECT NAME: CORAL GUARDIES

PROJECT NO.: LOCATION:

PROJECT MANAGER:

E-MAIL:

PHONE:

FAX:

## BILLING INFORMATION

BILL TO:

PO#:

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

## ANALYSIS

## DATA TURNAROUND INFORMATION

FAX: \_\_\_\_\_ DAYS \*  
HARD COPY: \_\_\_\_\_ DAYS \*  
EDD: \_\_\_\_\_ DAYS \*

\* TO BE APPROVED BY CHEMTECH

\*\* NORMAL TURNAROUND TIME - 14 DAYS

## DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ NY STATE CATEGORY A  
☐ RESULTS PLUS QC ☐ NY STATE CATEGORY B  
☐ REGULATORY FORMAT, STATE: \_\_\_\_\_  
☐ NEW JERSEY REDUCED DELIVERABLES  
☐ CLP ☐ OTHER: \_\_\_\_\_  
☐ EDD FORMAT: \_\_\_\_\_

| CHEMTECH<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |
| 1.                       | 1                                | FB2404           | 420            | ✓    | 2/4/01               | 0930 | 4            | X             | X | X |   |   |   |   |   |   | Vol's    |
| 2.                       | 2                                | TRIP BLANK       | 420            | ✓    |                      |      | 2            | X             | X | X |   |   |   |   |   |   |          |
| 3.                       | 3                                | CP-1             | SOIL           | ✓    | 2/4/01               | 0000 | 2            | X             | X | X |   |   |   |   |   |   |          |
| 4.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 5.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 6.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 7.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 8.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 9.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |
| 10.                      |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RECEIVED BY SAMPLER:

DATE/TIME:

RECEIVED BY:

1.

DATE/TIME:

RECEIVED BY:

2.

DATE/TIME:

RECEIVED FOR LAB BY:

3.

Conditions of bottles or coolers at receipt: ☐ Complaint ☐ Non-Complaint ☒ Temp. of Cooler 4  
MeOH extraction requires an additional 4 oz jar for percent solid.  
Comments:

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☒ OVERNIGHT  
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete:

☐ YES ☐ NO

Page \_\_\_\_\_ of \_\_\_\_\_

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

ORIGIN ID: ZMVA (516) 427-5665  
ERIC ARNEGEN  
NELSON & POPE  
572 WALT WHITMAN RD

SHIP DATE: 04FEB04  
SYSTEM 8694989 / CAFE2185  
ACTUAL WGT: 30 LBS MAN-WGT  
ACCOUNT #: 011738516

MELVILLE, NY 11747

**FedEx**



FedEx Revenue Barcode

TO:

CHEMTECH (808) 789-8900  
SHIPPING DEPARTMENT  
284 SHEFFIELD STREET

MOUNTAINSIDE, NJ 07092

REF: 01075



Delivery Address Barcode (FedEx-EDR)

**PRIORITY OVERNIGHT**

TRK#

**6424 6041 5437** FORM 0201

THU

Deliver by:

05FEB04

A1

**EWR**

**07092**

-NJ-US

**Z3 KBCA**

Per # 168148-434 NRIITA 7-03



# Premier Environmental Services

## APPENDIX D

# Premier Environmental Services

June 2, 2004

Kurt Hummler  
Chemtech Consulting Group  
284 Sheffield Street  
Mountainside, NJ 07092

Dear Mr. Hummler,

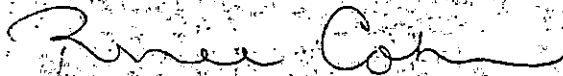
Premier Environmental Services is performing the data review for the samples collected at the Coral Graphics-New South Road Project. The samples were collected in February, 2004. Below are questions associated with the cited data set. I have organized the questions for ease of review by either the project manager or QA Officer.

## Project P1330 – TAL Metals

The COC documents associated with this data set indicates that sample CP-1 (P1330-03) was to be analyzed for TAL Metals. The data report did not include the analysis of this sample. Please comment and revise/update if necessary.

Thank you in advance for your prompt response to these data issues. If there are any additional questions associated with this data set, please do not hesitate to contact me at 516-223-9761.

Sincerely,



Renee Cohen

Cc: Eric Arnesen – Pope, Nelson and Voorhis

# **CHEMTECH**

## **Facsimile Transmittal**

**Date:** 6/2/04

**Number of Pages** 3

**Name:** Renee Cohen

**Fax #:** 516-223-0983

**Company:** Premier Environmental

**Re :** S1330

**SENT BY :**

**Kurt Hummler**

**Chemtech Consulting Group, Inc.**

**284 Sheffield Street**

**Mountainside, New Jersey 07092**

**Phone: (908) 789-8900 ext. 103**

**Fax: (908) 789-8514**

**Comment:** Renee,

**Attached please find sample results page for metals, sample CP-1**

**IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL  
US AT (908) 789-8900 AS SOON AS POSSIBLE.  
284 Sheffield Street, Mountainside, NJ 07092**

**This facsimile transmission pertains to confidential information involving Chemtech Consulting Group, Inc. and the intended recipient. If you are not the intended recipient copying, acting upon or discussing the contents is PROHIBITED. In the event this transmission has been misdirected, please contact this office so that we may take appropriate action. Thank you for your prompt response to this matter.**

**IN BUSINESS FOR THE ENVIRONMENT**

**Chentech Consulting Group****Metals**

-1-

**INORGANIC ANALYSIS DATA PACKAGE**Client: Nelson, Pope & Voornhis, LLC SDG No.: SI330 Method Type: SW846Sample ID: SI330-03Client ID: CP-1Contract: Nelson, Pope & Voornhis, LLC Lab Code: OFFBEMD Case No.: SI330 SAS No.: SI330Matrix: SOIL Date Received: 2/5/04 Level: LOW% Solids: 96.6 Sample Wt/Vol: 1.0 Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 1010          | mg/Kg |   |      | P  | 0.95 | P2            | 13004P2        |
| Antimony  | 7440-36-0 | 0.64          | mg/Kg | U |      | P  | 0.64 | P2            | 13004P2        |
| Arsenic   | 7440-38-2 | 0.61          | mg/Kg | J |      | P  | 0.54 | P2            | 13004P2        |
| Barium    | 7440-39-3 | 2.8           | mg/Kg | J |      | P  | 0.75 | P2            | 13004P2        |
| Beryllium | 7440-41-7 | 0.07          | mg/Kg | J |      | P  | 0.01 | P2            | 13004P2        |
| Cadmium   | 7440-43-9 | 0.11          | mg/Kg | U |      | P  | 0.11 | P2            | 13004P2        |
| Calcium   | 7440-70-2 | 304           | mg/Kg | J |      | P  | 1.3  | P2            | 13004P2        |
| Chromium  | 7440-47-3 | 4.3           | mg/Kg |   |      | P  | 0.10 | P2            | 13004P2        |
| Cobalt    | 7440-48-4 | 0.12          | mg/Kg | U |      | P  | 0.12 | P2            | 13004P2        |
| Copper    | 7440-50-8 | 3.2           | mg/Kg |   |      | P  | 0.40 | P2            | 13004P2        |
| Iron      | 7439-89-6 | 2760          | mg/Kg |   |      | P  | 2.2  | P2            | 13004P2        |
| Lead      | 7439-92-1 | 0.56          | mg/Kg |   |      | P  | 0.26 | P2            | 13004P2        |
| Magnesium | 7439-95-4 | 280           | mg/Kg | J |      | P  | 2.0  | P2            | 13004P2        |
| Manganese | 7439-96-5 | 14.2          | mg/Kg |   |      | P  | 0.12 | P2            | 13004P2        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg | U |      | CV | 0.01 | CV2           | 021004A        |
| Nickel    | 7440-02-0 | 0.97          | mg/Kg | J |      | P  | 0.38 | P2            | 13004P2        |
| Potassium | 7440-09-7 | 154           | mg/Kg | J |      | P  | 4.1  | P2            | 13004P2        |
| Selenium  | 7782-49-2 | 0.86          | mg/Kg | J |      | P  | 0.21 | P2            | 13004P2        |
| Silver    | 7440-22-4 | 1.1           | mg/Kg |   |      | P  | 0.25 | P2            | 13004P2        |
| Sodium    | 7440-23-5 | 105           | mg/Kg | J |      | P  | 36.7 | P2            | 13004P2        |
| Thallium  | 7440-28-0 | 0.93          | mg/Kg | U |      | P  | 0.93 | P2            | 13004P2        |
| Vanadium  | 7440-62-2 | 3.9           | mg/Kg | J |      | P  | 0.16 | P2            | 13004P2        |
| Zinc      | 7440-66-6 | 5.1           | mg/Kg |   |      | P  | 0.53 | P2            | 13004P2        |

**Chemtech Consulting Group**

## Metals

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

**Client:** Nelson, Pope & Voorhis, LLC      **SDC No.:** S1330      **Method Type:** SW846

**Color Before:** Brown      **Clarity Before:**                           **Texture:** Medium

**Color After:** Yellow      **Clarity After:**       **Artifacts:**

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# Premier Environmental Services

June 11, 2004

Kurt Hummler  
Chemtech Consulting Group  
284 Sheffield Street  
Mountainside, NJ 07092

Dear Mr. Hummler,

Premier Environmental Services is performing the data review for the samples collected at the Coral Graphics-New South Road Project. The samples were collected in February, 2004. Below are questions associated with the cited data set. I have organized the questions for ease of review by either the project manager or QA Officer.

## Project S1330 - TAL Metals

Thank you for providing the data result page for sample CP-1 (soil) in this data set. Upon review of the package it was noted that all QC data and raw data associated with the soil sample analysis was not provided for review. This included the prep information, prep blank information, MS, DUP, Serial Dilution and LCS information. Can you please put together a package to include the raw data and QC data associated with the analysis of sample S1330-03.

Thank you in advance for your prompt response to these data issues. If there are any additional questions associated with this data set, please do not hesitate to contact me at 516-223-9761.

Sincerely,



Renee Cohen

Cc: Eric Arnesen - Pope, Nelson and Voorhis

5/16/04 - slw kurt -  
will put together pkg + get it to me today or 6/17/04

# Premier Environmental Services

## DATA USABILITY SUMMARY REPORT (DUSR) OF THE CORAL GRAPHICS - NEW SOUTH SOUTH ROAD SITE

### ORGANIC AND INORGANIC ANALYSES IN AQUEOUS AND NON-AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP  
MOUNTAINSIDE, NEW JERSEY

REPORT NUMBER: S1002

June, 2004

Prepared for  
Nelson, Pope & Voorhis, LLC  
Melville, New York

Prepared by  
Premier Environmental Services  
2815 Covered Bridge Road  
Merrick, New York 11566  
(516)223-9761

### NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** Volatile Organic Analyses, Semivolatile Organic Analyses,  
**SITE:** Coral Graphics – New South Road  
Hicksville, New York  
**CONTRACT LAB:** Chemtech  
Mountainside, New Jersey  
**REVIEWER:** Renee Cohen  
**DATE REVIEW COMPLETED:** June, 2004  
**MATRIX:** Aqueous and Non Aqueous

The data validation was performed according to the guidelines described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment includes six (6) soil samples, one (1) Field Blank and one (1) Trip Blank (aqueous) sample collected December 30, 2003. The samples associated with this data set are summarized in Table 1 of this report. All of the samples were shipped to Chemtech Consulting Group, located in Mountainside, New Jersey. The samples were received at the laboratory on January 2, 2004 via UPS. All samples were received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260) and Semivolatile Organic Analytes (SVOA-EPA Method 8270) as specified on the Chain of Custody (COC) documentation that accompanied the samples to the laboratory. A copy of the COC documents associated with each data set is located in Appendix C of this report. Correspondence between this data validator and the laboratory are located in Appendix D of this report. In addition, the samples were analyzed for TAL Metals. The inorganic data review is located in the Inorganic Data Usability Summary Report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. OVERVIEW:**

The six (6) soil samples, one (1) Field Blank and one (1) Trip Blank sample were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for the organic analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260 and 8270. The laboratory provided a deliverables package in accordance with the guidelines in the NYSDEC ASP, Rev '95, Category B.

### **2. HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection. Semivolatile Organic analyses are to be prepared/extracted within five (5) days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly samples is to prepare the aqueous samples within 7 days of collection and the soil samples within fourteen days of collection.

#### **Volatile Organic Analyses**

The aqueous samples in this data set were analyzed for Volatile Organic Analytes. The samples and associated QC samples were analyzed within the ten (10) days of VTSR.

#### **Semivolatile Organic Analyses**

Six (6) soil samples and the Field Blank sample were validated in this data set. The soil sample in this data set was extracted in one (1) batch on January 5, 2004. The Field Blank sample was extracted in an aqueous preparation batch on January 5, 2004. The samples in this data set were analyzed within the NYS DEC ASP holding time.

### **3. SURROGATES:**

**All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.**

**Volatile Organic Analyses** – Each sample was spiked with the surrogate compounds 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Toluene-d8 and Dibromofluoromethane. In-house surrogate recovery limits were reported by the laboratory. The percent recovery of each surrogate met QC criteria in each of the samples in this data set.

**Semivolatile Organic Analyses** – Each sample was spiked with the surrogate compounds 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14. The percent recovery of each surrogate met QC criteria in each of the sample analyses in this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:**

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

#### **Volatile Organic Analyses**

Sample SP-7 was utilized for the MS/MSD sample in this data set. The laboratory spiked all target analytes in the MS and MSD sample, however, reported only the five (5) CLP compounds on the summary form. All percent recoveries and Relative Percent Differences (RPD's) of the reported components met QC criteria.

#### **Semivolatile Organic Analyses**

Sample SP-7 was utilized for the soil MS/MSD samples in this data set. All Percent Recoveries met QC criteria in the MS and MSD sample with the exception of 4-Nitrophenol (183%/183%) and Pentachlorophenol (167%/167%). All Relative Percent Differences met QC criteria in this MS/MSD analysis. The recoveries were slightly higher than QC limits (50-150%). These analytes were not detected in the samples in this data set, therefore, no action was taken based on MS/MSD recoveries alone.

### **5. BLANK SPIKE ANALYSIS:**

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

#### **Volatile Organic Analyses**

The laboratory reported one (1) blank spike analysis with this data set. The blank spike sample was fortified with all reported analytes. The laboratory summarized the blank spike data on a CLP spike component summary form. The spike recoveries of each CLP analyte met QC criteria.

#### **Semivolatile Organic Analyses**

The laboratory performed one (1) blank spike analysis for each matrix in this data set. The aqueous blank spike sample was spiked with all reported analytes. All spike recoveries in the aqueous blank spike sample met QC criteria with the exception of Hexachlorocyclopentadiene, 2,4-Dinitrophenol and Pentachlorophenol. The soil blank spike sample was spiked with all reported analytes. All spike recoveries in the soil blank spike sample met QC criteria with the exception of Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Nitrophenol. These analytes were not detected in the soil samples in the data set. No action was taken on the recoveries in the soil Blank Spike sample.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

#### **A) Method Blank contamination**

##### **Volatile Organic Analyses**

One (1) aqueous method blank is associated with this data set. It was free from contamination of all target analytes and non-target (TIC) compounds.

Two (2) soil method blanks are associated with this data set. Each was free from contamination of all target analytes and non-target (TIC) compounds.

##### **Semivolatile Organic Analyses**

One (1) aqueous method blank sample is associated with this data set. It was free from contamination of all target analytes. One (1) Aldol Condensation Product and one (1) Tentatively Identified Compound (TIC's) were detected in this method blank sample. When detected in the associated aqueous Field Blank sample, they were negated.

Qualified data result pages are located in Appendix B of this report.

One (1) soil method blank sample is associated with this data set. It was free from contamination of all target analytes. One (1) ACP was detected in this method blank sample at retention time 2.59 minutes. When detected in the associated soil samples, they were negated.

Qualified data result pages are located in Appendix B of this report.

#### **B) Field Blank contamination**

##### **Volatile Organic Analyses**

The Field Blank sample (FIELDBLANK) was free from contamination of all target and non-target analytes.

##### **Semivolatile Organic Analyses**

The Field Blank sample (FIELDBLANK) was free from contamination of all target analytes with the exception Bis (2-ethylhexyl)phthalate (3.2 J ug/L). In addition, one (1) TIC analyte was reported. When detected in the soil samples they were negated and qualified "U".

Qualified data result pages are located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. BLANK CONTAMINATION (cont'd:**

#### **C) Trip Blank contamination**

##### **Volatile Organic Analyses**

The Trip Blank sample (TRIP BLANK) was free from contamination of all target and non-target analytes.

### **7. GC/MS CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

#### **A) RESPONSE FACTOR**

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria is not met in an initial calibration the positive results are qualified "J". Non detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, effected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria is set for these analytes. If the minimum criteria is not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

##### **Volatile Organic Analyses**

Two (2) initial calibration curve analyses are associated with this data set. The laboratory performed an aqueous multi-level calibration curve on December 29, 2003 (Inst.J). The RRF for all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this calibration curve analysis. All response factors of the target analytes met QC criteria in this continuing calibration standard analysis.

The laboratory performed a soil multi-level calibration curve on January 6, 2004 (Inst.I). The RRF for all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this calibration curve analysis. All response factors of the target analytes met QC criteria in this continuing calibration standard analysis.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **7. GC/MS CALIBRATION (cont'd)**

#### **A) RESPONSE FACTOR**

##### **Semivolatile Organic Analyses**

Two (2) initial calibration curves are associated with this data set. The laboratory performed an initial multi level calibration on December 17, 2003 (Inst. B). The RRF of all target compounds met QC criteria in this initial calibration curve.

Two (2) continuing calibration standards are associated with the curve analysis on Instrument A. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

The laboratory performed a soil initial multi level calibration on December 24, 2003 (Inst. E). The RRF of all target compounds met QC criteria in this initial calibration curve.

Two (2) continuing calibration standards are associated with the curve analysis on Instrument E. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

#### **B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):**

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgement. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unuseable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

##### **Volatile Organic Analyses**

Two (2) initial calibration curves are associated with this data set. The laboratory performed the aqueous multi level calibration on December 29, 2003 (Inst.J). The %RSD for all target compounds met QC criteria in this initial calibration curve for all target analytes.

One (1) continuing calibration standard analysis is associated with this data set. All % Difference criteria were met for all target analytes in each of the continuing calibration standard analyses with the exception of 2-Butanone (31.2%), 4-methyl-2-pentanone (25.2%) and Tetrachloroethene (34.4%). These analytes have been qualified "UJ/J" estimated in each of the aqueous samples in this data set.

Qualified data result pages are located in Appendix B of this report.



## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

##### Volatile Organic Analyses

The laboratory performed the soil multi level calibration on January 6, 2004 (Inst.I). The %RSD for all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of Carbon Disulfide (35.7%) and Bromoform (25.4%). This continuing calibration standard is associated with the soil QC samples in this data set. Soil sample data result pages were not qualified.

##### Semivolatile Organic Analyses

Two (2) initial calibration curve analyses are associated with this data set. The laboratory performed an initial multi level calibration on December 17, 2003 (Inst. B). The %RSD criteria were met for all target compounds in this initial calibration curve with the exception of Hexachlorocyclopentadiene (47.8%) and 2,4-Dinitrophenol (42.2%). These analytes have been qualified "UJ/J" estimated in the samples associated with this initial calibration curve analysis.

Two (2) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date   | File ID    | Analyte           | %Difference |
|--------|------------|-------------------|-------------|
| 1/8/04 | BB014100.D | 2,4-Dinitrophenol | 40.5        |
| 1/9/04 | BB014108.D | 2,4-Dinitrophenol | 46.8        |

This target analyte has been qualified "UJ/J" estimated in the samples associated with these continuing calibration standards.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

##### Semi Volatile Organic Analyses

The laboratory performed an initial multi level calibration on December 24, 2003 (Inst. E). The %RSD criteria were met for all target compounds in this initial calibration curve with the exception of Hexachlorocyclopentadiene (62.1%) and 2,4-Dinitrophenol (44.5%). These analytes have been qualified "UJ/J" estimated in the samples associated with this initial calibration curve analysis.

Two (2) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date   | File ID    | Analyte                   | %Difference |
|--------|------------|---------------------------|-------------|
| 1/6/04 | BE008461.D | Hexachloroethane          | 26.1        |
|        |            | Hexachlorocyclopentadiene | 165.7       |
| 1/6/04 | BE008486.D | Hexachlorocyclopentadiene | 210.4       |
|        |            | 2,6-Dinitrotoluene        | 34.9        |
|        |            | 2,4-Dinitrophenol         | 49.4        |
|        |            | 4-Nitroaniline            | 27.3        |
|        |            | 3,3'-Dichlorobenzidene    | 31.3        |

These continuing calibration standards are associated with the soil samples in this data set. These target analytes have been qualified "UJ/J" estimated in the samples associated with these continuing calibration standards.

Qualified data result pages are located in Appendix B of this report.

### 8. GC/MS MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). The tuning compound for semivolatile organic analyses is decafluorotriphenylphosphine (DFTPP). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

Volatile Organic Analyses/ Semivolatile Organic Analyses – All Instrument Tuning criteria was met for these sample analyses.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **9. GC/MS INTERNAL STANDARDS PERFORMANCE:**

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than  $\pm 30$  seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria are applied to all field and QC samples.

#### **Volatile Organic Analyses**

All samples were fortified with the internal standards Tert Butyl Alcohol-d9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. All internal standard area criteria were met for the validated samples in this data set.

#### **Semivolatile Organic Analyses**

The samples were fortified with the internal standards 1,4-Dichlorobenzene-d4, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d12 and Perylene-d12. All internal standard area QC criteria were met for the samples in this data set with the exception of the FIELD BLANK sample. Chrysene-d12 and Perylene-d12 exceeded QC criteria in the initial analysis. The laboratory reanalyzed the sample and comparable data was obtained. The target analytes associated with these internal standards have been qualified "UJ/J" estimated in the FIELD BLANK sample.

Qualified data result pages are located in Appendix B of this report.

### **10. COMPOUND IDENTIFICATION:**

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within  $\pm 0.06$  RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

#### **Volatile Organic Analyses**

The samples in this data set reported the VOA 8260 analytes specified on the COC documents. A Library Search was performed and reported with each of the samples in this data set. The laboratory reported the target analytes to the determined method detection limit. Soil sample results are reported on a dry weight basis. All of the samples were analyzed and reported without dilution.

#### **Semivolatile Organic Analyses**

The laboratory reported the Semivolatile Organic target analytes to the determined method detection limit. A Library Search was performed and reported with all samples in this data set. The validated samples were analyzed and reported without dilution.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 11. FIELD DUPLICATE SAMPLE ANALYSIS

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples.

Sample SP-4 and DUP 1 are soil field duplicate samples. Below is a comparison of positive field duplicate sample data results

Sample ID: SP-4 (S1002-04)/DUP-1 (S1002-05)

| Target Analyte   | Result<br>ug/kg | Result<br>ug/kg | RPD<br>(%) |
|------------------|-----------------|-----------------|------------|
| Diethylphthalate | ND              | 54 J            | NC         |
| Fluouranthene    | ND              | 39 J            | NC         |

ND denotes Not Detected

NC Denotes Not Calculated

The results of target analytes in sample DUP-1 were estimated by the laboratory and qualified "J". Sample data was not qualified based on the results of these field duplicate sample results.

### 12. OVERALL ASSESSMENT:

Analytical QC criteria was met for these analyses. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package. All soil sample data was reported on a dry weight basis.

The data provided for this data set is acceptable for use, with the noted data qualifiers.

### **NYS DEC Data Usability Summary Report**

**DATA VALIDATION FOR:** TAL Metals

**SITE:** Coral Graphics Site

**CONTRACT LAB:** Chemtech Consulting Group  
Mountainside, New Jersey

**REVIEWER:** Renee Cohen

**DATE REVIEW COMPLETED:** June, 2004

**MATRIX:** Aqueous and Non-Aqueous

This data assessment is for six (6) soil samples, one (1) Field Blank and one (1) Trip Blank sample as listed below. The samples were collected on December 30, 2003 and shipped via UPS to Chemtech Consulting Group, located in Mountainside, New Jersey. All samples, with the exception of the Trip Blank were analyzed for the TAL Metals group. The samples were received at the laboratory on January 2, 2004. A copy of the Chain of Custody documents is located in Appendix C of this report.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set. Appendix D of this report contains copies of correspondence between the data validator and the laboratory regarding this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. HOLDING TIME**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

All sample analyses associated with Project ID: S1002 were prepared/digested and analyzed within the proper holding time.

### **2. CALIBRATION ANALYSIS**

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The soil and aqueous Field Bank sample were analyzed in one analytical sequence January 11, 2004. The laboratory did not provide the Form XIV in the data report. The laboratory was contacted and copies of the Form XIV were provided for review. Copies of the correspondence associated with this issue are located in Appendix D of this report. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria. The laboratory

Analysis for Cold Vapor Mercury is calibrated using multi point standards and calculating the correlation coefficient of the curve. One of the calibrations standards must be analyzed at the CRDL. The soil Mercury analyses associated with this data set were performed on January 6, 2004. The laboratory did not provide the Form XIV in the data report. The laboratory was contacted and copies of the Form XIV were provided for review. Copies of the correspondence associated with this issue are located in Appendix D of this report. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

The aqueous Mercury analyses associated with this data set were performed on January 9, 2004. The laboratory did not provide the Form XIV in the data report. The laboratory was contacted and copies of the Form XIV were provided for review. Copies of the correspondence associated with this issue are located in Appendix D of this report. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **3. CRDL STANDARD**

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

All ICP CRDL standards associated with this data set met QC criteria with the exception of Lead (76.8). This CRDL standard is associated with all samples in this data set. Lead has been qualified "UJ/J" estimated in all samples in this data set.

Qualified data result pages are located in Appendix B of this report.

### **4. INTERFERENCE CHECK STANDARD**

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferents metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

### **5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSIS**

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-150%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. USEPA Region II criteria states that if the matrix spike recovery is greater than 150%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

Soil sample MS/MSD analysis was performed on sample SP-7. All percent recoveries met QC criteria in the MS/MSD sample set met QC criteria with the exception of Iron (71.6%/73.8). The soil samples associated with MS/MSD sample set have been qualified "J/UJ" estimated for Iron.

Qualified data result pages are located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. POST DIGESTION SPIKE ANALYSIS**

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Chemtech Consulting Group did not perform post digestion spike analysis with this data set.

### **7. DUPLICATE SAMPLE ANALYSIS**

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Duplicate sample analysis was performed on sample SP-7. All duplicate analyte RPD's met QC criteria in this sample.

### **8. ICP SERIAL DILUTION**

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Sample SP-7 was utilized for the serial dilution analysis. All serial dilution results met QC criteria in this sample analysis.



## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **9. BLANKS**

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

ICP Metals – The soil samples in this data set were prepared in one (1) batch on 1/5/04. This method blank was free from contamination of target analytes above the CRDL. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 1/6/04. This method blank was free from contamination of target analytes above the CRDL.

Mercury Analyses - The soil samples in this data set were prepared in one (1) batch on 1/6/04. This method blank was free from contamination. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 1/7/04. This method blank was free from contamination of all target analytes.

The aqueous FIELDBLANK (Sample S1002-01) was free from contamination of all target analytes above the CRDL.

### **10. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)**

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine if data should be qualified or rejected.

Chemtech prepared and analyzed an aqueous and soil LCS sample with each digestion batch associated with this data set. Recovery limits of 80%-120% were utilized for review of the aqueous LCS sample. Commercial recovery limits were listed with the soil LCS summary page. All LCS recoveries met QC limits.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 11. INSTRUMENT QC DATA

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech Consulting Group performed the required studies specified by the method.

### 12. COMPOUND IDENTIFICATION

The samples in this data set were analyzed in accordance with the cited methodologies. All samples were analyzed without dilution. The soil samples in this data set were reported on a dry weight basis.

### 13. FIELD DUPLICATE SAMPLE ANALYSIS

Field duplicate samples are collected and analyzed as an indication of overall precision of field sample collection. These results are expected to have more variability than laboratory duplicate samples. Analytes reported above the method detection limit are listed. Data was not qualified based on field duplicate sample analyses. Comparison of field duplicate soil sample data indicates good overall precision between sample collection. Data was not qualified based on field duplicate data.

Sample SP-4 and DUP -1 are field duplicate samples. Below is a summary of the field duplicate sample results.

| Analyte   | Result<br>(mg/kg) | Result<br>(mg/kg) | RPD<br>(%) |
|-----------|-------------------|-------------------|------------|
| Aluminum  | 443               | 423               | 4.6        |
| Barium    | 3.0 J             | 3.1 J             | 3.3        |
| Beryllium | 0.07 J            | 0.09 J            | 25         |
| Cadmium   | ND                | 0.84 J            | NC         |
| Calcium   | 277 J             | 292 J             | 5.3        |
| Chromium  | 1.7               | 1.3               | 26.7       |
| Cobalt    | 0.21 J            | 0.15 J            | 33.3       |
| Copper    | 2.4 J             | 2.9               | 18.9       |
| Iron      | 773               | 1100              | 34.9       |
| Lead      | 1.2               | 1.4               | 15.4       |
| Magnesium | 128 J             | 106 J             | 18.8       |
| Manganese | 33.2              | 37.6              | 12.4       |
| Nickel    | 0.69 J            | 0.63 J            | 9.1        |
| Potassium | 47.8 J            | 41.6 J            | 13.9       |
| Sodium    | 82.3 J            | 73.3 J            | 11.6       |
| Vanadium  | 1.0 J             | 1.2 J             | 18.2       |
| Zinc      | 4.7               | 5.3               | 12         |

ND Denotes Not Detected

NC Denotes Not Calculated

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **14. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT**

This data set included the analysis of six (6) soil samples and one (1) Field Blank sample. The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. A description of the qualifiers and decision for them is detailed in the above report. Any data issues were addressed with the laboratory and a response was received. A copy of any correspondence associated with this data is located in appendix D of this report. Soil sample data results are reported in a dry weight basis.

The data associated with this data set is acceptable for use with the noted data qualifiers. Details of the data qualification added to the analyte are located in the above text.

# Premier Environmental Services

## TABLE 1

# Premier Environmental Services

## CLIENT SAMPLE ID

## LABORATORY SAMPLE ID

TRIP-BLANK

S1002-01

FIELD-BLANK

S1002-02

SP-2

S1002-03

SP-4

S1002-04

DUP-1

S1002-05

CP-1-0

S1002-06

SP-7

S1002-07

SP-7MS

S1002-08

SP-7MSD

S1002-09

SP-1

S1002-010

# Premier Environmental Services

## APPENDIX A

# Premier Environmental Services

## DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected, and the reported quantitation limit is probably higher than reported.

# Premier Environmental Services

## APPENDIX B



# Chemtech Consulting Group

Volatiles  
SW-846

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |             |
|--------------------|------------|--------------------|-------------|
| Sample ID:         | S1002-02   | Client ID:         | FIELD BLANK |
| Date Collected:    | 12/30/2003 | Date Received:     | 1/2/2004    |
| Date Analyzed:     | 1/5/2004   | Matrix:            | WATER       |
| File ID:           | VJ010507.D | Analytical Run ID: | VJ122903    |
| Dilution:          | 1          | Instrument ID:     | MSVOAJ      |
| Analytical Method: | 8260       | Associated Blank:  | VB0105W1    |
| Sample Wt/Wol:     | 5.0        | Soil Extract Vol:  |             |
| Soil Aliquot Vol:  |            | % Moisture:        | 100         |

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Vinyl chloride           | 75-01-4     | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Bromomethane             | 74-83-9     | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Chloroethane             | 75-00-3     | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| 1,1-Dichloroethene       | 75-35-4     | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| Acetone                  | 67-64-1     | < 3.5         | U | 25  | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Methylene Chloride       | 75-09-2     | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3     | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 2-Butanone               | 78-93-3     | < 2.3         | U | 25  | 2.3  | ug/L  |
| Carbon Tetrachloride     | 56-23-5     | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3     | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1,1-Trichloroethane    | 71-55-6     | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Benzene                  | 71-43-2     | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,2-Dichloroethane       | 107-06-2    | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| Trichloroethene          | 79-01-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,2-Dichloropropane      | 78-87-5     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| Bromodichloromethane     | 75-27-4     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 0.81        | U | 25  | 0.81 | ug/L  |
| Toluene                  | 108-88-3    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| t-1,3-Dichloropropene    | 10061-02-6  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1,2-Trichloroethane    | 79-00-5     | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| 2-Hexanone               | 591-78-6    | < 0.60        | U | 25  | 0.60 | ug/L  |
| Dibromochloromethane     | 124-48-1    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Tetrachloroethene        | 127-18-4    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Chlorobenzene            | 108-90-7    | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene            | 100-41-4    | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| m/p-Xylenes              | 136777-61-2 | < 1.5         | U | 5.0 | 1.5  | ug/L  |
| o-Xylene                 | 95-47-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Styrene                  | 100-42-5    | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| Bromoform                | 75-25-2     | < 0.49        | U | 5.0 | 0.49 | ug/L  |

# Chemtech Consulting Group

Volatiles  
SW-846

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |             |
|--------------------|------------|--------------------|-------------|
| Sample ID:         | S1002-02   | Client ID:         | FIELD BLANK |
| Date Collected:    | 12/30/2003 | Date Received:     | 1/2/2004    |
| Date Analyzed:     | 1/5/2004   | Matrix:            | WATER       |
| File ID:           | VJ010507.D | Analytical Run ID: | VJ122903    |
| Dilution:          | 1          | Instrument ID:     | MSVOAJ      |
| Analytical Method: | 8260       | Associated Blank:  | VBJ0105W1   |
| Sample Wt/Vol:     | 5.0        | Soil Extract Vol:  |             |
| Soil Aliquot Vol:  |            | % Moisture:        | 100         |

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | 0     | 5.0      | 0.70 | ug/L    |
| SURROGATES                |            |               |       |          |      |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 46.01         | 92 %  | 68 - 135 |      | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 51.57         | 103 % | 70 - 125 |      | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 55.47         | 111 % | 70 - 125 |      | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 59.13         | 118 % | 70 - 125 |      | SPK: 50 |
| INTERNAL STANDARDS        |            |               |       |          |      |         |
| Pentafluorobenzene        | 363-72-4   | 449986        | 4.28  |          |      |         |
| 1,4-Difluorobenzene       | 540-36-3   | 979015        | 4.90  |          |      |         |
| Chlorobenzene-d5          | 3114-55-4  | 905891        | 7.37  |          |      |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 352975        | 8.79  |          |      |         |

# Chemtech Consulting Group

Volatiles  
SW-846

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

|                    |            |                    |           |
|--------------------|------------|--------------------|-----------|
| Sample ID:         | S1002-01   | Client ID:         | TRIPBLANK |
| Date Collected:    | 12/30/2003 | Date Received:     | 1/2/2004  |
| Date Analyzed:     | 1/5/2004   | Matrix:            | WATER     |
| File ID:           | VJ010506.D | Analytical Run ID: | VJ122903  |
| Dilution:          | 1          | Instrument ID:     | MSVOAJ    |
| Analytical Method: | 8260       | Associated Blank:  | VBJ0105W1 |
| Sample Wt/Vol:     | 5.0        | Soil Extract Vol:  |           |
| Units:             | mL         | % Moisture:        | 100       |
| Soil Aliquot Vol:  |            |                    |           |

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Vinyl chloride           | 75-01-4     | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Bromomethane             | 74-83-9     | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Chloroethane             | 75-00-3     | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| 1,1-Dichloroethene       | 75-35-4     | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| Acetone                  | 67-64-1     | < 3.5         | U | 25  | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Methylene Chloride       | 75-09-2     | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3     | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 2-Butanone               | 78-93-3     | < 2.3         | U | 25  | 2.3  | ug/L  |
| Carbon Tetrachloride     | 56-23-5     | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3     | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1,1-Trichloroethane    | 71-55-6     | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Benzene                  | 71-43-2     | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,2-Dichloroethane       | 107-06-2    | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| Trichloroethene          | 79-01-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,2-Dichloropropane      | 78-87-5     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| Bromodichloromethane     | 75-27-4     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 0.81        | U | 25  | 0.81 | ug/L  |
| Toluene                  | 108-88-3    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| t-1,3-Dichloropropene    | 10061-02-6  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1,2-Trichloroethane    | 79-00-5     | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| 2-Hexanone               | 591-78-6    | < 0.60        | U | 25  | 0.60 | ug/L  |
| Dibromochloromethane     | 124-48-1    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Tetrachloroethene        | 127-18-4    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Chlorobenzene            | 108-90-7    | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene            | 100-41-4    | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| m/p-Xylenes              | 136777-61-2 | < 1.5         | U | 5.0 | 1.5  | ug/L  |
| o-Xylene                 | 95-47-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Styrene                  | 100-42-5    | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| Bromoform                | 75-25-2     | < 0.49        | U | 5.0 | 0.49 | ug/L  |

# Chemtech Consulting Group

## Volatiles SW-846

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-01

Client ID: TRIPBLANK

Date Collected: 12/30/2003

Date Received: 1/2/2004

Date Analyzed: 1/5/2004

Matrix: WATER

File ID: VJ010506.D

Analytical Run ID: VJ122903

Dilution: 1

Instrument ID: MSVOAJ

Analytical Method: 8260

Associated Blank: VBJ0105W1

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U     | 5.0      | 0.70 | ug/L    |
| <b>SURROGATES</b>         |            |               |       |          |      |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 45.56         | 91 %  | 68 - 135 |      | SPK: 50 |
| Dibromofluoromethane      | 1868-53-7  | 51.32         | 103 % | 70 - 125 |      | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 54.94         | 110 % | 70 - 125 |      | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 56.92         | 114 % | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |      |         |
| Pentafluorobenzene        | 363-72-4   | 477455        | 4.27  |          |      |         |
| 1,4-Difluorobenzene       | 540-36-3   | 1035310       | 4.89  |          |      |         |
| Chlorobenzene-d5          | 3114-55-4  | 943450        | 7.37  |          |      |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 371030        | 8.79  |          |      |         |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1002-02

Client ID: FIELD BLANK

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/8/04

Matrix: WATER

Date Extracted: 1/5/04

File ID: BB014105.D

Dilution: 1

Instrument ID: BNAB

Analytical Method: 8270

Analytical Run ID: BB121703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB12311B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                     |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 1.0         | U | 10  | 1.0 | ug/L  |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Chlorophenol              | 95-57-8    | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene         | 95-50-1    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene         | 541-73-1   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,4-Dichlorobenzene         | 106-46-7   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenol              | 95-48-7    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 3+4-Methylphenols           | 106-44-5   | < 1.9         | U | 10  | 1.9 | ug/L  |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Hexachloroethane            | 67-72-1    | < 1.1         | U | 10  | 1.1 | ug/L  |
| Nitrobenzene                | 98-95-3    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Isophorone                  | 78-59-1    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Nitrophenol               | 88-75-5    | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2,4-Dimethylphenol          | 105-67-9   | < 2.4         | U | 10  | 2.4 | ug/L  |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dichlorophenol          | 120-83-2   | < 1.4         | U | 10  | 1.4 | ug/L  |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                 | 91-20-3    | < 1.2         | U | 10  | 1.2 | ug/L  |
| 4-Chloroaniline             | 106-47-8   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorobutadiene         | 87-68-3    | < 1.6         | U | 10  | 1.6 | ug/L  |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2-Methylnaphthalene         | 91-57-6    | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorocyclopentadiene   | 77-47-4    | < 4.0         | U | 10  | 4.0 | ug/L  |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Chloronaphthalene         | 91-58-7    | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Nitroaniline              | 88-74-4    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Dimethylphthalate           | 131-11-3   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Acenaphthylene              | 208-96-8   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2,6-Dinitrotoluene          | 606-20-2   | < 1.0         | U | 10  | 1.0 | ug/L  |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1002-02

Client ID: FIELDBLANK

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/8/04

Matrix: WATER

Date Extracted: 1/5/04

File ID: BB014105.D

Dilution: 1

Instrument ID: BNAB

Analytical Method: 8270

Analytical Run ID: BB121703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB12311B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL   | Units |
|----------------------------|------------|---------------|---|-----|-------|-------|
| <b>TARGETS</b>             |            |               |   |     |       |       |
| 3-Nitroaniline             | 99-09-2    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Acenaphthene               | 83-32-9    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | 51-28-5    | < 2.1 UJ      | U | 10  | 2.1   | ug/L  |
| 4-Nitrophenol              | 100-02-7   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Dibenzofuran               | 132-64-9   | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrotoluene         | 121-14-2   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Diethylphthalate           | 84-66-2    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | 86-73-7    | < 1.1         | U | 10  | 1.1   | ug/L  |
| 4-Nitroaniline             | 100-01-6   | < 2.5         | U | 10  | 2.5   | ug/L  |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 1.2         | U | 10  | 1.2   | ug/L  |
| N-Nitrosodiphenylamine     | 86-30-6    | < 2.1         | U | 10  | 2.1   | ug/L  |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 1.4         | U | 10  | 1.4   | ug/L  |
| Hexachlorobenzene          | 118-74-1   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Pentachlorophenol          | 87-86-5    | < 2.0         | U | 10  | 2.0   | ug/L  |
| Phenanthrene               | 85-01-8    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Anthracene                 | 120-12-7   | < 1.4         | U | 10  | 1.4   | ug/L  |
| Carbazole                  | 86-74-8    | < 0.430       | U | 10  | 0.430 | ug/L  |
| Di-n-butylphthalate        | 84-74-2    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | 206-44-0   | < 1.0         | U | 10  | 1.0   | ug/L  |
| Pyrene                     | 129-00-0   | < 1.0 UJ      | U | 10  | 1.0   | ug/L  |
| Butylbenzylphthalate       | 85-68-7    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | 56-55-3    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | 218-01-9   | < 1.7         | U | 10  | 1.7   | ug/L  |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 3.2 J         | J | 10  | 1.0   | ug/L  |
| Di-n-octyl phthalate       | 117-84-0   | < 1.6 UJ      | U | 10  | 1.6   | ug/L  |
| Benzo(b)fluoranthene       | 205-99-2   | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | 207-08-9   | < 2.7         | U | 10  | 2.7   | ug/L  |
| Benzo(a)pyrene             | 50-32-8    | < 1.6         | U | 10  | 1.6   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 1.7         | U | 10  | 1.7   | ug/L  |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

|                    |          |                    |             |
|--------------------|----------|--------------------|-------------|
| Sample ID:         | S1002-02 | Client ID:         | FIELD BLANK |
| Date Collected:    | 12/30/03 | Date Received:     | 1/2/04      |
| Date Analyzed:     | 1/8/04   | Matrix:            | WATER       |
| Date Extracted:    | 1/5/04   | File ID:           | BB014105.D  |
| Dilution:          | 1        | Instrument ID:     | BNAB        |
| Analytical Method: | 8270     | Analytical Run ID: | BB121703    |
| Sample Wt/Wol:     | 960.0    | Extract Vol:       | 1000        |
| Injection Vol:     | 2        | % Moisture:        | 100         |
| Associated Blank:  | PB12311B |                    |             |

| Parameter                             | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                        |            |               |       |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 1.6 U I     | U     | 10       | 1.6 | ug/L     |
| Benzo(g,h,i)perylene                  | 191-24-2   | < 1.4 U J     | U     | 10       | 1.4 | ug/L     |
| <b>SURROGATES</b>                     |            |               |       |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 103.94        | 35 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 63.9          | 21 %  | 10 - 94  |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 171.06        | 86 %  | 35 - 114 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 150.63        | 75 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 305.59        | 102 % | 10 - 123 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 141.21        | 71 %  | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |               |       |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 154876        | 6.03  |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 578178        | 8.30  |          |     |          |
| Acenaphthene-d10                      | 15067-26-2 | 350626        | 11.75 |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 527902        | 14.72 |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 271481        | 20.07 |          |     |          |
| Perylene-d12                          | 1520-96-3  | 164706        | 23.11 |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |          |
| Hexadecanoic acid                     | 57103      | 5.6           | J     | 15.93    |     | ug/L     |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1002-02RE

Client ID: FIELDBLANKRE

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/8/04

Matrix: WATER

Date Extracted: 1/5/04

File ID: BB014106.D

Dilution: 1

Instrument ID: BNAB

Analytical Method: 8270

Analytical Run ID: BBI21703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB12311B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                     |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 1.0         | U | 10  | 1.0 | ug/L  |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Chlorophenol              | 95-57-8    | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene         | 95-50-1    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene         | 541-73-1   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,4-Dichlorobenzene         | 106-46-7   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenol              | 95-48-7    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 3+4-Methylphenols           | 106-44-5   | < 1.9         | U | 10  | 1.9 | ug/L  |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Hexachloroethane            | 67-72-1    | < 1.1         | U | 10  | 1.1 | ug/L  |
| Nitrobenzene                | 98-95-3    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Isophorone                  | 78-59-1    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Nitrophenol               | 88-75-5    | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2,4-Dimethylphenol          | 105-67-9   | < 2.4         | U | 10  | 2.4 | ug/L  |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dichlorophenol          | 120-83-2   | < 1.4         | U | 10  | 1.4 | ug/L  |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                 | 91-20-3    | < 1.2         | U | 10  | 1.2 | ug/L  |
| 4-Chloroaniline             | 106-47-8   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorobutadiene         | 87-68-3    | < 1.6         | U | 10  | 1.6 | ug/L  |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2-Methylnaphthalene         | 91-57-6    | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorocyclopentadiene   | 77-47-4    | < 4.0 UJ      | U | 10  | 4.0 | ug/L  |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Chloronaphthalene         | 91-58-7    | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Nitroaniline              | 88-74-4    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Dimethylphthalate           | 131-11-3   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Acenaphthylene              | 208-96-8   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2,6-Dinitrotoluene          | 606-20-2   | < 1.0         | U | 10  | 1.0 | ug/L  |



## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1002-02RE

Client ID: FIELDBLANKRE

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/8/04

Matrix: WATER

Date Extracted: 1/5/04

File ID: BB014106.D

Dilution: 1

Instrument ID: BNAB

Analytical Method: 8270

Analytical Run ID: BB121703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB12311B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL   | Units |
|----------------------------|------------|---------------|---|-----|-------|-------|
| TARGETS                    |            |               |   |     |       |       |
| 3-Nitroaniline             | 99-09-2    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Acenaphthene               | 83-32-9    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | 51-28-5    | < 2.1 UJ      | U | 10  | 2.1   | ug/L  |
| 4-Nitrophenol              | 100-02-7   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Dibenzofuran               | 132-64-9   | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrotoluene         | 121-14-2   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Diethylphthalate           | 84-66-2    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | 86-73-7    | < 1.1         | U | 10  | 1.1   | ug/L  |
| 4-Nitroaniline             | 100-01-6   | < 2.5         | U | 10  | 2.5   | ug/L  |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 1.2         | U | 10  | 1.2   | ug/L  |
| N-Nitrosodiphenylamine     | 86-30-6    | < 2.1         | U | 10  | 2.1   | ug/L  |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 1.4         | U | 10  | 1.4   | ug/L  |
| Hexachlorobenzene          | 118-74-1   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Pentachlorophenol          | 87-86-5    | < 2.0         | U | 10  | 2.0   | ug/L  |
| Phenanthrene               | 85-01-8    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Anthracene                 | 120-12-7   | < 1.4         | U | 10  | 1.4   | ug/L  |
| Carbazole                  | 86-74-8    | < 0.430       | U | 10  | 0.430 | ug/L  |
| Di-n-butylphthalate        | 84-74-2    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | 206-44-0   | < 1.0         | U | 10  | 1.0   | ug/L  |
| Pyrene                     | 129-00-0   | < 1.0 UJ      | U | 10  | 1.0   | ug/L  |
| Burylbenzylphthalate       | 85-68-7    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | 56-55-3    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | 218-01-9   | < 1.7         | U | 10  | 1.7   | ug/L  |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 3.3 UJ        | J | 10  | 1.0   | ug/L  |
| Di-n-octyl phthalate       | 117-84-0   | < 1.6 UJ      | U | 10  | 1.6   | ug/L  |
| Benzo(b)fluoranthene       | 205-99-2   | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | 207-08-9   | < 2.7         | U | 10  | 2.7   | ug/L  |
| Benzo(a)pyrene             | 50-32-8    | < 1.6         | U | 10  | 1.6   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 1.7         | U | 10  | 1.7   | ug/L  |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |            |                    |              |
|--------------------|------------|--------------------|--------------|
| Sample ID:         | S1002-02RE | Client ID:         | FIELDBLANKRE |
| Date Collected:    | 12/30/03   | Date Received:     | 1/2/04       |
| Date Analyzed:     | 1/8/04     | Matrix:            | WATER        |
| Date Extracted:    | 1/5/04     | File ID:           | EB014106.D   |
| Dilution:          | 1          | Instrument ID:     | BNAB         |
| Analytical Method: | 8270       | Analytical Run ID: | BB121703     |
| Sample Wt/Wol:     | 960.0      | Extract Vol:       | 1000         |
| Injection Vol:     | 2          | % Moisture:        | 100          |
| Associated Blank:  | PB12311B   |                    |              |

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |            |               |       |          |     |          |
| Dibenz(a,h)anthracene     | 53-70-3    | < 1.6 UJ      | U     | 10       | 1.6 | ug/L     |
| Benzo(g,h,i)perylene      | 191-24-2   | < 1.4 UJ      | U     | 10       | 1.4 | ug/L     |
| <b>SURROGATES</b>         |            |               |       |          |     |          |
| 2-Fluorophenol            | 367-12-4   | 78.47         | 26 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                 | 13127-88-3 | 52.43         | 17 %  | 10 - 94  |     | SPK: 300 |
| Nitrobenzene-d5           | 4165-60-0  | 153.41        | 77 %  | 35 - 114 |     | SPK: 200 |
| 2-Fluorobiphenyl          | 321-60-8   | 164.61        | 82 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol      | 118-79-6   | 302.36        | 101 % | 10 - 123 |     | SPK: 300 |
| Terphenyl-d14             | 1718-51-0  | 145.1         | 73 %  | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |          |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 173139        | 6.02  |          |     |          |
| Naphthalene-d8            | 1146-65-2  | 593504        | 8.30  |          |     |          |
| Acenaphthene-d10          | 15067-26-2 | 338254        | 11.75 |          |     |          |
| Phenanthrene-d10          | 1517-22-2  | 532668        | 14.73 |          |     |          |
| Chrysene-d12              | 1719-03-5  | 264926        | 20.07 |          |     |          |
| Perylene-d12              | 1520-96-3  | 160659        | 23.11 |          |     |          |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |                 |                    |                   |
|--------------------|-----------------|--------------------|-------------------|
| Sample ID:         | <u>S1002-03</u> | Client ID:         | <u>SP-2</u>       |
| Date Collected:    | <u>12/30/03</u> | Date Received:     | <u>1/2/04</u>     |
| Date Analyzed:     | <u>1/7/04</u>   | Matrix:            | <u>SOIL</u>       |
| Date Extracted:    | <u>1/5/04</u>   | File ID:           | <u>BE008488.D</u> |
| Dilution:          | <u>1</u>        | Instrument ID:     | <u>BNAE</u>       |
| Analytical Method: | <u>8270</u>     | Analytical Run ID: | <u>BE122403</u>   |
| Sample Wt/Wol:     | <u>30.0</u>     | Extract Vol:       | <u>1000</u>       |
| Injection Vol:     | <u>2</u>        | % Moisture:        | <u>3</u>          |
| Associated Blank:  | <u>PB12312B</u> |                    |                   |

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                     |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 34          | U | 340 | 34  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 40          | U | 340 | 40  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 37          | U | 340 | 37  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 40          | U | 340 | 40  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 34          | U | 340 | 34  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 34          | U | 340 | 34  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 34          | U | 340 | 34  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 61          | U | 340 | 61  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 37          | U | 340 | 37  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 34          | U | 340 | 34  | ug/Kg |
| Isophorone                  | 78-59-1    | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 37          | U | 340 | 37  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 78          | U | 340 | 78  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 44          | U | 340 | 44  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 40          | U | 340 | 40  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 40          | U | 340 | 40  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 51          | U | 340 | 51  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 37          | U | 340 | 37  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130 UJ      | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 34          | U | 340 | 34  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 34          | U | 850 | 34  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 40          | U | 340 | 40  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 34          | U | 850 | 34  | ug/Kg |
| Dimethylphthalate           | 131-11-3   | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 40          | U | 340 | 40  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 34 UJ       | U | 340 | 34  | ug/Kg |

## SVOC

SDG No.: S1002

Client: Nelson.Pope &amp; Voorhis, LLC

|                    |                 |                    |                   |
|--------------------|-----------------|--------------------|-------------------|
| Sample ID:         | <u>S1002-03</u> | Client ID:         | <u>SP-2</u>       |
| Date Collected:    | <u>12/30/03</u> | Date Received:     | <u>1/2/04</u>     |
| Date Analyzed:     | <u>1/7/04</u>   | Matrix:            | <u>SOIL</u>       |
| Date Extracted:    | <u>1/5/04</u>   | File ID:           | <u>BE008488.D</u> |
| Dilution:          | <u>1</u>        | Instrument ID:     | <u>BNAE</u>       |
| Analytical Method: | <u>8270</u>     | Analytical Run ID: | <u>BE122403</u>   |
| Sample Wt/Wol:     | <u>30.0</u>     | Extract Vol:       | <u>1000</u>       |
| Injection Vol:     | <u>2</u>        | % Moisture:        | <u>3</u>          |
| Associated Blank:  | <u>PB12312B</u> |                    |                   |

| Parameter                  | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |            |               |   |     |     |       |
| 3-Nitroaniline             | 99-09-2    | < 40          | U | 850 | 40  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 40          | U | 340 | 40  | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 68 U J      | U | 850 | 68  | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 37          | U | 850 | 37  | ug/Kg |
| Dibenzofuran               | 132-64-9   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 37          | U | 340 | 37  | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 34          | U | 340 | 34  | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 40          | U | 340 | 40  | ug/Kg |
| Fluorene                   | 86-73-7    | < 37          | U | 340 | 37  | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 82 U J      | U | 850 | 82  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 40          | U | 850 | 40  | ug/Kg |
| N-Nitrosodiphenylamine     | 86-30-6    | < 68          | U | 340 | 68  | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 44          | U | 340 | 44  | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 37          | U | 340 | 37  | ug/Kg |
| Pentachlorophenol          | 87-86-5    | < 65          | U | 850 | 65  | ug/Kg |
| Phenanthrene               | 85-01-8    | < 34          | U | 340 | 34  | ug/Kg |
| Anthracene                 | 120-12-7   | < 44          | U | 340 | 44  | ug/Kg |
| Carbazole                  | 86-74-8    | < 14          | U | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 40          | U | 340 | 40  | ug/Kg |
| Fluoranthene               | 206-44-0   | < 34          | U | 340 | 34  | ug/Kg |
| Pyrene                     | 129-00-0   | < 34          | U | 340 | 34  | ug/Kg |
| Butylbenzylphthalate       | 85-68-7    | < 34          | U | 340 | 34  | ug/Kg |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 34 U J      | U | 340 | 34  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 34          | U | 340 | 34  | ug/Kg |
| Chrysene                   | 218-01-9   | < 54          | U | 340 | 54  | ug/Kg |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | < 34          | U | 340 | 34  | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 51          | U | 340 | 51  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 34          | U | 340 | 34  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 88          | U | 340 | 88  | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 51          | U | 340 | 51  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 54          | U | 340 | 54  | ug/Kg |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |          |                    |            |
|--------------------|----------|--------------------|------------|
| Sample ID:         | S1002-03 | Client ID:         | SP-2       |
| Date Collected:    | 12/30/03 | Date Received:     | 1/2/04     |
| Date Analyzed:     | 1/7/04   | Matrix:            | SOIL       |
| Date Extracted:    | 1/5/04   | File ID:           | BE008488.D |
| Dilution:          | 1        | Instrument ID:     | BNAE       |
| Analytical Method: | 8270     | Analytical Run ID: | BE122403   |
| Sample Wt/Wol:     | 30.0     | Extract Vol:       | 1000       |
| Injection Vol:     | 2        | % Moisture:        | 3          |
| Associated Blank:  | PB12312B |                    |            |

| Parameter                             | CAS Number | Concentration   | C               | RDL      | MDL | Units    |
|---------------------------------------|------------|-----------------|-----------------|----------|-----|----------|
| <b>TARGETS</b>                        |            |                 |                 |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 51            | U               | 340      | 51  | ug/Kg    |
| Benzo(g,h,i)perylene                  | 191-24-2   | < 44            | U               | 340      | 44  | ug/Kg    |
| <b>SURROGATES</b>                     |            |                 |                 |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 196.31          | 65 %            | 25 - 121 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 172.4           | 57 %            | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 130.58          | 65 %            | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 129.98          | 65 %            | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 279.28          | 93 %            | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 131.16          | 66 %            | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |                 |                 |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 202017          | 4.25            |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 665252          | 5.70            |          |     |          |
| Acenaphthenc-d10                      | 15067-26-2 | 361897          | 7.80            |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 605413          | 9.61            |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 595430          | 12.88           |          |     |          |
| Perylene-d12                          | 1520-96-3  | 528804          | 14.58           |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |                 |                 |          |     |          |
| ACP                                   |            | <del>1200</del> | <del>ADND</del> | 2.56     |     | ug/Kg    |
| Decane, 2,6,7-trimethyl-              | 62108252   | 150             | J               | 8.31     |     | ug/Kg    |
| Benzoic acid, 2-propenyl ester        | 583040     | 100             | J               | 12.67    |     | ug/Kg    |
| Benzoic acid, 1-methylethyl ester     | 939480     | 120             | J               | 12.72    |     | ug/Kg    |
| 2-(2-Carboxyvinyl)pyridine, trans     | 7340229    | 300             | J               | 12.76    |     | ug/Kg    |
| 1,10-Phenanthroline, 2,9-dimethyl     | 4733395    | 440             | J               | 14.72    |     | ug/Kg    |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-04

Client ID: SP-4

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008490.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12312B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>              |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 34          | U | 340 | 34  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 40          | U | 340 | 40  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 37          | U | 340 | 37  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 40          | U | 340 | 40  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 34          | U | 340 | 34  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 34          | U | 340 | 34  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 34          | U | 340 | 34  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 61          | U | 340 | 61  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 37          | U | 340 | 37  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 34          | U | 340 | 34  | ug/Kg |
| Isophorone                  | 78-59-1    | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 37          | U | 340 | 37  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 78          | U | 340 | 78  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 44          | U | 340 | 44  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 40          | U | 340 | 40  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 40          | U | 340 | 40  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 51          | U | 340 | 51  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 37          | U | 340 | 37  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130         | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 34          | U | 340 | 34  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 34          | U | 860 | 34  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 40          | U | 340 | 40  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 34          | U | 860 | 34  | ug/Kg |
| Dimethylphthalate           | 131-11-3   | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 40          | U | 340 | 40  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 34          | U | 340 | 34  | ug/Kg |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1002-04

Client ID: SP-4

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008490.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12312B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                    |            |               |   |     |     |       |
| 3-Nitroaniline             | 99-09-2    | < 40          | U | 860 | 40  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 40          | U | 340 | 40  | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 68 UJ       | U | 860 | 68  | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 37          | U | 860 | 37  | ug/Kg |
| Dibenzofuran               | 132-64-9   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 37          | U | 340 | 37  | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 34          | U | 340 | 34  | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 40          | U | 340 | 40  | ug/Kg |
| Fluorene                   | 86-73-7    | < 37          | U | 340 | 37  | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 82 UJ       | U | 860 | 82  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 40          | U | 860 | 40  | ug/Kg |
| N-Nitrosodiphenylamine     | 86-30-6    | < 68          | U | 340 | 68  | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 44          | U | 340 | 44  | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 37          | U | 340 | 37  | ug/Kg |
| Pentachlorophenol          | 87-86-5    | < 65          | U | 860 | 65  | ug/Kg |
| Phenanthrene               | 85-01-8    | < 34          | U | 340 | 34  | ug/Kg |
| Anthracene                 | 120-12-7   | < 44          | U | 340 | 44  | ug/Kg |
| Carbazole                  | 86-74-8    | < 14          | U | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 40          | U | 340 | 40  | ug/Kg |
| Fluoranthene               | 206-44-0   | < 34          | U | 340 | 34  | ug/Kg |
| Pyrene                     | 129-00-0   | < 34          | U | 340 | 34  | ug/Kg |
| Butylbenzylphthalate       | 85-68-7    | < 34          | U | 340 | 34  | ug/Kg |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 34 UJ       | U | 340 | 34  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 34          | U | 340 | 34  | ug/Kg |
| Chrysene                   | 218-01-9   | < 54          | U | 340 | 54  | ug/Kg |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | < 34          | U | 340 | 34  | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 51          | U | 340 | 51  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 34          | U | 340 | 34  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 88          | U | 340 | 88  | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 51          | U | 340 | 51  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 54          | U | 340 | 54  | ug/Kg |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-04

Client ID: SP-4

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008490.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12312B

| Parameter                             | CAS Number | Concentration   | C                | RDL      | MDL | Units    |
|---------------------------------------|------------|-----------------|------------------|----------|-----|----------|
| <b>TARGETS</b>                        |            |                 |                  |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 51            | U                | 340      | 51  | ug/Kg    |
| Benzo(g,h,i)perylene                  | 191-24-2   | < 44            | U                | 340      | 44  | ug/Kg    |
| <b>SURROGATES</b>                     |            |                 |                  |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 224.93          | 75 %             | 25 - 121 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 199.28          | 66 %             | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 149.58          | 75 %             | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 152.01          | 76 %             | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 313.44          | 104 %            | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 152.17          | 76 %             | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |                 |                  |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 174791          | 4.25             |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 574225          | 5.70             |          |     |          |
| Acenaphthene-d10                      | 15067-26-2 | 307892          | 7.80             |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 522552          | 9.62             |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 502834          | 12.88            |          |     |          |
| Perylene-d12                          | 1520-96-3  | 448222          | 14.58            |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |                 |                  |          |     |          |
| ACP                                   |            | <del>1300</del> | <del>AD</del> ND | 2.56     |     | ug/Kg    |
| Tetracontane, 3,5,24-trimethyl-       | 55162613   | 140             | J                | 8.31     |     | ug/Kg    |
| 1-Propanone, 2-methyl-1-phenyl-       | 611701     | 110             | J                | 12.67    |     | ug/Kg    |
| Ethanone, 2-bromo-1,2-diphenyl-       | 1484500    | 130             | J                | 12.73    |     | ug/Kg    |
| Ethanol, 2-(4-phenoxyphenoxy)-, b     | 55191598   | 320             | J                | 12.77    |     | ug/Kg    |



# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-05

Client ID: DUP-1

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008491.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12312B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>              |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 34          | U | 340 | 34  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 40          | U | 340 | 40  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 37          | U | 340 | 37  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 34          | U | 340 | 34  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 40          | U | 340 | 40  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 34          | U | 340 | 34  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 34          | U | 340 | 34  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 34          | U | 340 | 34  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 61          | U | 340 | 61  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 34          | U | 340 | 34  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 37          | U | 340 | 37  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 34          | U | 340 | 34  | ug/Kg |
| Isophorone                  | 78-59-1    | < 34          | U | 340 | 34  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 37          | U | 340 | 37  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 78          | U | 340 | 78  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 44          | U | 340 | 44  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 40          | U | 340 | 40  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 40          | U | 340 | 40  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 51          | U | 340 | 51  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 37          | U | 340 | 37  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 40          | U | 340 | 40  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130 UJ      | U | 340 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 34          | U | 340 | 34  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 34          | U | 850 | 34  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 40          | U | 340 | 40  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 34          | U | 850 | 34  | ug/Kg |
| Dimethylnaphthalate         | 131-11-3   | < 34          | U | 340 | 34  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 40          | U | 340 | 40  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 34 UJ       | U | 340 | 34  | ug/Kg |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-05

Client ID: DUP-1

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008491.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12312B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |            |               |   |     |     |       |
| 3-Nitroaniline             | 99-09-2    | < 40          | U | 850 | 40  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 40          | U | 340 | 40  | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 68 U J      | U | 850 | 68  | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 37          | U | 850 | 37  | ug/Kg |
| Dibenzofuran               | 132-64-9   | < 34          | U | 340 | 34  | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 37          | U | 340 | 37  | ug/Kg |
| Diethylphthalate           | 84-66-2    | 54            | J | 340 | 34  | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 40          | U | 340 | 40  | ug/Kg |
| Fluorene                   | 86-73-7    | < 37          | U | 340 | 37  | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 81 U J      | U | 850 | 81  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 40          | U | 850 | 40  | ug/Kg |
| N-Nitrosodiphenylamine     | 86-30-6    | < 68          | U | 340 | 68  | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 44          | U | 340 | 44  | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 37          | U | 340 | 37  | ug/Kg |
| Pentachlorophenol          | 87-86-5    | < 64          | U | 850 | 64  | ug/Kg |
| Phenanthrene               | 85-01-8    | < 34          | U | 340 | 34  | ug/Kg |
| Anthracene                 | 120-12-7   | < 44          | U | 340 | 44  | ug/Kg |
| Carbazole                  | 86-74-8    | < 14          | U | 340 | 14  | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 40          | U | 340 | 40  | ug/Kg |
| Fluoranthene               | 206-44-0   | 39            | J | 340 | 34  | ug/Kg |
| Pyrene                     | 129-00-0   | < 34          | U | 340 | 34  | ug/Kg |
| Burylbenzylphthalate       | 85-68-7    | < 34          | U | 340 | 34  | ug/Kg |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 34 U J      | U | 340 | 34  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 34          | U | 340 | 34  | ug/Kg |
| Chrysene                   | 218-01-9   | < 54          | U | 340 | 54  | ug/Kg |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | < 34          | U | 340 | 34  | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 51          | U | 340 | 51  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 34          | U | 340 | 34  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 88          | U | 340 | 88  | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 51          | U | 340 | 51  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 54          | U | 340 | 54  | ug/Kg |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-05

Client ID: DUP-1

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008491.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 3

Associated Blank: PB12312B

| Parameter                             | CAS Number | Concentration   | C                | RDL      | MDL | Units    |
|---------------------------------------|------------|-----------------|------------------|----------|-----|----------|
| <b>TARGETS</b>                        |            |                 |                  |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 51            | U                | 340      | 51  | ug/Kg    |
| Benzo(g,h,i)perylene                  | 191-24-2   | < 44            | U                | 340      | 44  | ug/Kg    |
| <b>SURROGATES</b>                     |            |                 |                  |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 210.26          | 70 %             | 25 - 121 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 184.27          | 61 %             | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 139.59          | 70 %             | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 145.02          | 73 %             | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 308.9           | 103 %            | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 149.08          | 75 %             | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |                 |                  |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 167678          | 4.25             |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 553149          | 5.70             |          |     |          |
| Acenaphthene-d10                      | 15067-26-2 | 297408          | 7.81             |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 504386          | 9.62             |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 483237          | 12.88            |          |     |          |
| Perylene-d12                          | 1520-96-3  | 432549          | 14.58            |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |                 |                  |          |     |          |
| ACP                                   |            | <del>1300</del> | <del>AB</del> ND | 2.55     |     | ug/Kg    |
| Tetracontane, 3,5,24-trimethyl-       | 55162613   | 130             | J                | 8.31     |     | ug/Kg    |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson.Pope & Voorhis, LLC

Sample ID: S1002-06

Client ID: CP-1-0

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008489.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: S270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB12312B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                     |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 35          | U | 350 | 35  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 41          | U | 350 | 41  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 38          | U | 350 | 38  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 35          | U | 350 | 35  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 41          | U | 350 | 41  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 35          | U | 350 | 35  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 35          | U | 350 | 35  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 35          | U | 350 | 35  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 63          | U | 350 | 63  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 35          | U | 350 | 35  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 38          | U | 350 | 38  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 35          | U | 350 | 35  | ug/Kg |
| Isophorone                  | 78-59-1    | < 35          | U | 350 | 35  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 38          | U | 350 | 38  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 80          | U | 350 | 80  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 45          | U | 350 | 45  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 41          | U | 350 | 41  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 41          | U | 350 | 41  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 41          | U | 350 | 41  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 52          | U | 350 | 52  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 38          | U | 350 | 38  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 41          | U | 350 | 41  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130 U J     | U | 350 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 35          | U | 350 | 35  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 35          | U | 880 | 35  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 41          | U | 350 | 41  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 35          | U | 880 | 35  | ug/Kg |
| Dimethylphthalate           | 131-11-3   | < 35          | U | 350 | 35  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 41          | U | 350 | 41  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 35 U J      | U | 350 | 35  | ug/Kg |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: S1002-06

Client ID: CP-1-0

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008489.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB12312B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                    |            |               |   |     |     |       |
| 3-Nitroaniline             | 99-09-2    | < 41          | U | 880 | 41  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 41          | U | 350 | 41  | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 70          | U | 880 | 70  | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 38          | U | 880 | 38  | ug/Kg |
| Dibenzofuran               | 132-64-9   | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 38          | U | 350 | 38  | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 35          | U | 350 | 35  | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 41          | U | 350 | 41  | ug/Kg |
| Fluorene                   | 86-73-7    | < 38          | U | 350 | 38  | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 84          | U | 880 | 84  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 41          | U | 880 | 41  | ug/Kg |
| N-Nitrosodiphenylamine     | 86-30-6    | < 70          | U | 350 | 70  | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 45          | U | 350 | 45  | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 38          | U | 350 | 38  | ug/Kg |
| Pentachlorophenol          | 87-86-5    | < 66          | U | 880 | 66  | ug/Kg |
| Phenanthrene               | 85-01-8    | < 35          | U | 350 | 35  | ug/Kg |
| Anthracene                 | 120-12-7   | < 45          | U | 350 | 45  | ug/Kg |
| Carbazole                  | 86-74-8    | < 14          | U | 350 | 14  | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 41          | U | 350 | 41  | ug/Kg |
| Fluoranthene               | 206-44-0   | < 35          | U | 350 | 35  | ug/Kg |
| Pyrene                     | 129-00-0   | < 35          | U | 350 | 35  | ug/Kg |
| Butylbenzylphthalate       | 85-68-7    | < 35          | U | 350 | 35  | ug/Kg |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 35          | U | 350 | 35  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 35          | U | 350 | 35  | ug/Kg |
| Chrysene                   | 218-01-9   | < 56          | U | 350 | 56  | ug/Kg |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 46            | U | 350 | 35  | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 52          | U | 350 | 52  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 35          | U | 350 | 35  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 91          | U | 350 | 91  | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 52          | U | 350 | 52  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 56          | U | 350 | 56  | ug/Kg |

# Chemitech Consulting Group

## SVOC

SDC No.: S1002

Client: Nelson, Pope & Voorhis, LLC

|                    |          |                    |            |
|--------------------|----------|--------------------|------------|
| Sample ID:         | S1002-06 | Client ID:         | CP-1-0     |
| Date Collected:    | 12/30/03 | Date Received:     | 1/2/04     |
| Date Analyzed:     | 1/7/04   | Matrix:            | SOIL       |
| Date Extracted:    | 1/5/04   | File ID:           | BE008489.D |
| Dilution:          | 1        | Instrument ID:     | BNAE       |
| Analytical Method: | 8270     | Analytical Run ID: | BE122403   |
| Sample Wt/Wol:     | 30.2     | Extract Vol:       | 1000       |
| Injection Vol:     | 2        | % Moisture:        | 6          |
| Associated Blank:  | PB12312B |                    |            |

| Parameter                             | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                        |            |               |       |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 53          | U     | 350      | 53  | ug/Kg    |
| Benzo(g,h,i)perylene                  | 191-24-2   | < 45          | U     | 350      | 45  | ug/Kg    |
| <b>SURROGATES</b>                     |            |               |       |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 207.86        | 69 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 183.03        | 61 %  | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 139.45        | 70 %  | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 146.7         | 73 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 316.01        | 105 % | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 151.05        | 76 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |               |       |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 184169        | 4.25  |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 601770        | 5.70  |          |     |          |
| Acenaphthene-d10                      | 15067-26-2 | 321877        | 7.81  |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 543305        | 9.61  |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 526691        | 12.88 |          |     |          |
| Perylene-d12                          | 1520-96-3  | 462102        | 14.58 |          |     |          |
| <b>TENTITIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |          |
| ACP                                   |            | 1400          | ND    | 2.55     |     | ug/Kg    |
| Heptane, 3,3-[oxybis(methylene)]b     | 10143609   | 120           | J     | 8.30     |     | ug/Kg    |
| Benzamide, N-propyl-                  | 10546700   | 95            | J     | 12.72    |     | ug/Kg    |
| Ethanol, 2-(4-phenoxyphenoxy)-, b     | 55191598   | 200           | J     | 12.76    |     | ug/Kg    |
| Naphthalene, 1,2,3,5,6,7,8,8a-octa    | 4630073    | 190           | J     | 16.15    |     | ug/Kg    |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-07

Client ID: SP-7

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008495.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Vol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB12312B

| Parameter                   | CAS Number | Concentration | C   | RDL | MDL | Units |
|-----------------------------|------------|---------------|-----|-----|-----|-------|
| <b>TARGETS</b>              |            |               |     |     |     |       |
| Phenol                      | 108-95-2   | < 35          | U   | 350 | 35  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 41          | U   | 350 | 41  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 38          | U   | 350 | 38  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 35          | U   | 350 | 35  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 41          | U   | 350 | 41  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 35          | U   | 350 | 35  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 35          | U   | 350 | 35  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 35          | U   | 350 | 35  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 62          | U   | 350 | 62  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 35          | U   | 350 | 35  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 38          | U   | 350 | 38  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 35          | U   | 350 | 35  | ug/Kg |
| Isophorone                  | 78-59-1    | < 35          | U   | 350 | 35  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 38          | U   | 350 | 38  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 80          | U   | 350 | 80  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 35          | U   | 350 | 35  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 45          | U   | 350 | 45  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 41          | U   | 350 | 41  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 41          | U   | 350 | 41  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 41          | U   | 350 | 41  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 52          | U   | 350 | 52  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 38          | U   | 350 | 38  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 41          | U   | 350 | 41  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130         | U J | 350 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 35          | U   | 350 | 35  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 35          | U   | 870 | 35  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 41          | U   | 350 | 41  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 35          | U   | 870 | 35  | ug/Kg |
| Dimethylphthalate           | 131-11-3   | < 35          | U   | 350 | 35  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 41          | U   | 350 | 41  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 35          | U J | 350 | 35  | ug/Kg |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-07

Client ID: SP-7

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008495.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 5

Associated Blank: PB12312B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                    |            |               |   |     |     |       |
| 3-Nitroaniline             | 99-09-2    | < 41          | U | 870 | 41  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 41          | U | 350 | 41  | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 69 UJ       | U | 870 | 69  | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 38          | U | 870 | 38  | ug/Kg |
| Dibenzofuran               | 132-64-9   | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 38          | U | 350 | 38  | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 35          | U | 350 | 35  | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 41          | U | 350 | 41  | ug/Kg |
| Fluorene                   | 86-73-7    | < 38          | U | 350 | 38  | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 83 UJ       | U | 870 | 83  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 41          | U | 870 | 41  | ug/Kg |
| N-Nitrosodiphenylamine     | 86-30-6    | < 69          | U | 350 | 69  | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 45          | U | 350 | 45  | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 38          | U | 350 | 38  | ug/Kg |
| Pentachlorophenol          | 87-86-5    | < 66          | U | 870 | 66  | ug/Kg |
| Phenanthrene               | 85-01-8    | < 35          | U | 350 | 35  | ug/Kg |
| Anthracene                 | 120-12-7   | < 45          | U | 350 | 45  | ug/Kg |
| Carbazole                  | 86-74-8    | < 14          | U | 350 | 14  | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 41          | U | 350 | 41  | ug/Kg |
| Fluoranthene               | 206-44-0   | 61            | J | 350 | 35  | ug/Kg |
| Pyrene                     | 129-00-0   | 47            | J | 350 | 35  | ug/Kg |
| Butylbenzylphthalate       | 85-68-7    | < 35          | U | 350 | 35  | ug/Kg |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 35 UJ       | U | 350 | 35  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 35          | U | 350 | 35  | ug/Kg |
| Chrysene                   | 218-01-9   | < 55          | U | 350 | 55  | ug/Kg |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 73 U          | J | 350 | 35  | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 52          | U | 350 | 52  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | 38            | J | 350 | 35  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 90          | U | 350 | 90  | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 52          | U | 350 | 52  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | < 55          | U | 350 | 55  | ug/Kg |



## Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |          |                    |            |
|--------------------|----------|--------------------|------------|
| Sample ID:         | S1002-07 | Client ID:         | SP-7       |
| Date Collected:    | 12/30/03 | Date Received:     | 1/2/04     |
| Date Analyzed:     | 1/7/04   | Matrix:            | SOIL       |
| Date Extracted:    | 1/5/04   | File ID:           | BE008495.D |
| Dilution:          | 1        | Instrument ID:     | BNAE       |
| Analytical Method: | 8270     | Analytical Run ID: | BE122403   |
| Sample Wt/Vol:     | 30.1     | Extract Vol:       | 1000       |
| Injection Vol:     | 2        | % Moisture:        | 5          |
| Associated Blank:  | PB12312B |                    |            |

| Parameter             | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|-----------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>        |            |               |       |          |     |          |
| Dibenz(a,h)anthracene | 53-70-3    | < 52          | U     | 350      | 52  | ug/Kg    |
| Benzo(g,h,i)perylene  | 191-24-2   | < 45          | U     | 350      | 45  | ug/Kg    |
| <b>SURROGATES</b>     |            |               |       |          |     |          |
| 2-Fluorophenol        | 367-12-4   | 223.2         | 74 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5             | 13127-88-3 | 196.73        | 66 %  | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5       | 4165-60-0  | 154.1         | 77 %  | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl      | 321-60-8   | 153.56        | 77 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol  | 118-79-6   | 319.59        | 107 % | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14         | 1718-51-0  | 153           | 77 %  | 18 - 137 |     | SPK: 200 |

## INTERNAL STANDARDS

|                        |            |        |       |
|------------------------|------------|--------|-------|
| 1,4-Dichlorobenzene-d4 | 3855-82-1  | 178733 | 4.25  |
| Naphthalene-d8         | 1146-65-2  | 562351 | 5.70  |
| Acenaphthene-d10       | 15067-26-2 | 304734 | 7.81  |
| Phenanthrene-d10       | 1517-22-2  | 508014 | 9.61  |
| Chrysene-d12           | 1719-03-5  | 490276 | 12.88 |
| Perylene-d12           | 1520-96-3  | 438747 | 14.58 |

## TENTATIVE IDENTIFIED COMPOUNDS

|                                     |          |                 |       |       |       |
|-------------------------------------|----------|-----------------|-------|-------|-------|
| ACP                                 |          | <del>1500</del> | AB ND | 2.55  | ug/Kg |
| 1-Hexene, 5,5-dimethyl-             | 7116861  | 160             | J     | 8.30  | ug/Kg |
| Hexadecanoic acid                   | 57103    | <del>150</del>  | J ND  | 10.40 | ug/Kg |
| Nonadecane                          | 629925   | 100             | J     | 13.85 | ug/Kg |
| 2,6,10-Dodecatrien-1-ol, 3,7,11-t   | 4602840  | 450             | J     | 13.94 | ug/Kg |
| Octanethioic acid, S-hexyl ester    | 55590857 | 120             | J     | 14.39 | ug/Kg |
| Benzoic acid, 2,5-bis(trimethylsilo | 3618200  | 140             | J     | 14.46 | ug/Kg |
| 1,1,1,5,7,7,7-Heptamethyl-3,3-bis(  | 38147001 | 95              | J     | 15.00 | ug/Kg |
| Glycerol tricaprylate               | 538238   | 100             | J     | 15.24 | ug/Kg |
| 2,6-Dimethyl-3,4-bis(trimethylsilyl | 0        | 160             | J     | 15.65 | ug/Kg |
| Mercaptoacetic acid, bis(trimethy   | 6398625  | 190             | J     | 16.46 | ug/Kg |
| Cyclohexadecane                     | 295658   | 190             | J     | 16.79 | ug/Kg |
| 3-Isopropoxy-1,1,1,7,7,7-hexamet    | 71579696 | 93              | J     | 17.48 | ug/Kg |

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

|                    |          |                    |            |
|--------------------|----------|--------------------|------------|
| Sample ID:         | S1002-07 | Client ID:         | SP-7       |
| Date Collected:    | 12/30/03 | Date Received:     | 1/2/04     |
| Date Analyzed:     | 1/7/04   | Matrix:            | SOIL       |
| Date Extracted:    | 1/5/04   | File ID:           | BE008495.D |
| Dilution:          | 1        | Instrument ID:     | BNAE       |
| Analytical Method: | 8270     | Analytical Run ID: | BE122403   |
| Sample Wt/Wol:     | 30.1     | Extract Vol:       | 1000       |
| Injection Vol:     | 2        | % Moisture:        | 5          |
| Associated Blank:  | PB12312B |                    |            |

| Parameter | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------|------------|---------------|---|-----|-----|-------|
|-----------|------------|---------------|---|-----|-----|-------|

# Chemtech Consulting Group

## SVOC

SDG No.: S1002

Client: Nelson, Pope & Voorhis, LLC

Sample ID: S1002-10

Client ID: SP-1

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008494.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Vol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 7

Associated Blank: PB12312B

| Parameter                   | CAS Number | Concentration | C   | RDL | MDL | Units |
|-----------------------------|------------|---------------|-----|-----|-----|-------|
| TARGETS                     |            |               |     |     |     |       |
| Phenol                      | 108-95-2   | < 35          | U   | 350 | 35  | ug/Kg |
| bis(2-Chloroethyl)ether     | 111-44-4   | < 42          | U   | 350 | 42  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 39          | U   | 350 | 39  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 35          | U   | 350 | 35  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 42          | U   | 350 | 42  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 35          | U   | 350 | 35  | ug/Kg |
| 2-Methylphenol              | 95-48-7    | < 35          | U   | 350 | 35  | ug/Kg |
| 2,2-oxybis(1-Chloropropane) | 108-60-1   | < 35          | U   | 350 | 35  | ug/Kg |
| 3+4-Methylphenols           | 106-44-5   | < 64          | U   | 350 | 64  | ug/Kg |
| N-Nitroso-di-n-propylamine  | 621-64-7   | < 35          | U   | 350 | 35  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 39          | U   | 350 | 39  | ug/Kg |
| Nitrobenzene                | 98-95-3    | < 35          | U   | 350 | 35  | ug/Kg |
| Isophorone                  | 78-59-1    | < 35          | U   | 350 | 35  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 39          | U   | 350 | 39  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 81          | U   | 350 | 81  | ug/Kg |
| bis(2-Chloroethoxy)methane  | 111-91-1   | < 35          | U   | 350 | 35  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 46          | U   | 350 | 46  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 42          | U   | 350 | 42  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 42          | U   | 350 | 42  | ug/Kg |
| 4-Chloroaniline             | 106-47-8   | < 42          | U   | 350 | 42  | ug/Kg |
| Hexachlorobutadiene         | 87-68-3    | < 53          | U   | 350 | 53  | ug/Kg |
| 4-Chloro-3-methylphenol     | 59-50-7    | < 39          | U   | 350 | 39  | ug/Kg |
| 2-Methylnaphthalene         | 91-57-6    | < 42          | U   | 350 | 42  | ug/Kg |
| Hexachlorocyclopentadiene   | 77-47-4    | < 130         | U J | 350 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 35          | U   | 350 | 35  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 35          | U   | 890 | 35  | ug/Kg |
| 2-Chloronaphthalene         | 91-58-7    | < 42          | U   | 350 | 42  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 35          | U   | 890 | 35  | ug/Kg |
| Dimethylphthalate           | 131-11-3   | < 35          | U   | 350 | 35  | ug/Kg |
| Acenaphthylene              | 208-96-8   | < 42          | U   | 350 | 42  | ug/Kg |
| 2,6-Dinitrotoluene          | 606-20-2   | < 35          | U J | 350 | 35  | ug/Kg |

## SVOC

SDG No.: S1002

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |                 |                    |                   |
|--------------------|-----------------|--------------------|-------------------|
| Sample ID:         | <u>S1002-10</u> | Client ID:         | <u>SP-1</u>       |
| Date Collected:    | <u>12/30/03</u> | Date Received:     | <u>1/2/04</u>     |
| Date Analyzed:     | <u>1/7/04</u>   | Matrix:            | <u>SOIL</u>       |
| Date Extracted:    | <u>1/5/04</u>   | File ID:           | <u>BE008494.D</u> |
| Dilution:          | <u>1</u>        | Instrument ID:     | <u>BNAE</u>       |
| Analytical Method: | <u>8270</u>     | Analytical Run ID: | <u>BE122403</u>   |
| Sample Wt/Wol:     | <u>30.1</u>     | Extract Vol:       | <u>1000</u>       |
| Injection Vol:     | <u>2</u>        | % Moisture:        | <u>7</u>          |
| Associated Blank:  | <u>PB12312B</u> |                    |                   |

| Parameter                  | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>             |            |               |   |     |     |       |
| 3-Nitroaniline             | 99-09-2    | < 42          | U | 890 | 42  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 42          | U | 350 | 42  | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 71 U J      | U | 890 | 71  | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 39          | U | 890 | 39  | ug/Kg |
| Dibenzofuran               | 132-64-9   | < 35          | U | 350 | 35  | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 39          | U | 350 | 39  | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 35          | U | 350 | 35  | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 42          | U | 350 | 42  | ug/Kg |
| Fluorene                   | 86-73-7    | < 39          | U | 350 | 39  | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 85 U J      | U | 890 | 85  | ug/Kg |
| 4,6-Dinitro-2-methylphenol | 534-52-1   | < 42          | U | 890 | 42  | ug/Kg |
| N-Nitrosodiphenylamine     | 86-30-6    | < 71          | U | 350 | 71  | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 46          | U | 350 | 46  | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 39          | U | 350 | 39  | ug/Kg |
| Pentachlorophenol          | 87-86-5    | < 67          | U | 890 | 67  | ug/Kg |
| Phenanthrene               | 85-01-8    | 190           | J | 350 | 35  | ug/Kg |
| Anthracene                 | 120-12-7   | < 46          | U | 350 | 46  | ug/Kg |
| Carbazole                  | 86-74-8    | < 14          | U | 350 | 14  | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 42          | U | 350 | 42  | ug/Kg |
| Fluoranthene               | 206-44-0   | 480           |   | 350 | 35  | ug/Kg |
| Pyrene                     | 129-00-0   | 430           |   | 350 | 35  | ug/Kg |
| Burylbenzylphthalate       | 85-68-7    | < 35          | U | 350 | 35  | ug/Kg |
| 3,3-Dichlorobenzidine      | 91-94-1    | < 35 U J      | U | 350 | 35  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | 190           | J | 350 | 35  | ug/Kg |
| Chrysene                   | 218-01-9   | 300           | J | 350 | 57  | ug/Kg |
| bis(2-Ethylhexyl)phthalate | 117-81-7   | 81 U          | J | 350 | 35  | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 53          | U | 350 | 53  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | 380           |   | 350 | 35  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | 210           | J | 350 | 92  | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | 280           | J | 350 | 53  | ug/Kg |
| Indeno(1,2,3-cd)pyrene     | 193-39-5   | 270           | J | 350 | 57  | ug/Kg |

## SVOC

SDG No.: S1002

Client: Nelson Pope &amp; Voorhis, LLC

Sample ID: S1002-10

Client ID: SP-1

Date Collected: 12/30/03

Date Received: 1/2/04

Date Analyzed: 1/7/04

Matrix: SOIL

Date Extracted: 1/5/04

File ID: BE008494.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE122403

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 7

Associated Blank: PB12312B

| Parameter                             | CAS Number | Concentration   | C                | RDL      | MDL | Units    |
|---------------------------------------|------------|-----------------|------------------|----------|-----|----------|
| <b>TARGETS</b>                        |            |                 |                  |          |     |          |
| Dibenz(a,h)anthracene                 | 53-70-3    | < 53            | U                | 350      | 53  | ug/Kg    |
| Benzo(g,h,i)perylene                  | 191-24-2   | 270             | J                | 350      | 46  | ug/Kg    |
| <b>SURROGATES</b>                     |            |                 |                  |          |     |          |
| 2-Fluorophenol                        | 367-12-4   | 228.05          | 76 %             | 25 - 121 |     | SPK: 300 |
| Phenol-d5                             | 13127-88-3 | 200.81          | 67 %             | 24 - 113 |     | SPK: 300 |
| Nitrobenzene-d5                       | 4165-60-0  | 161.15          | 81 %             | 23 - 120 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 321-60-8   | 161.17          | 81 %             | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 118-79-6   | 328.15          | 109 %            | 19 - 122 |     | SPK: 300 |
| Terphenyl-d14                         | 1718-51-0  | 157.15          | 79 %             | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |            |                 |                  |          |     |          |
| 1,4-Dichlorobenzene-d4                | 3855-82-1  | 169591          | 4.25             |          |     |          |
| Naphthalene-d8                        | 1146-65-2  | 531389          | 5.70             |          |     |          |
| Acenaphthene-d10                      | 15067-26-2 | 290711          | 7.81             |          |     |          |
| Phenanthrene-d10                      | 1517-22-2  | 490118          | 9.62             |          |     |          |
| Chrysene-d12                          | 1719-03-5  | 469380          | 12.88            |          |     |          |
| Perylene-d12                          | 1520-96-3  | 425704          | 14.59            |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |                 |                  |          |     |          |
| 3-Penten-2-one, 4-methyl-             | 141797     | 150             | J                | 2.10     |     | ug/Kg    |
| ACP                                   |            | <del>2000</del> | <del>AB ND</del> | 2.55     |     | ug/Kg    |
| Heptane, 3,3-[oxybis(methylene)]b     | 10143609   | 130             | J                | 8.31     |     | ug/Kg    |
| Noxiptiline                           | 3362456    | 80              | J                | 11.33    |     | ug/Kg    |
| Heptadecane                           | 629787     | 67              | J                | 11.45    |     | ug/Kg    |
| Pentadecane                           | 629629     | 90              | J                | 11.90    |     | ug/Kg    |
| Benzoic acid, 2-propenyl ester        | 583040     | 170             | J                | 12.68    |     | ug/Kg    |
| Benzenebutanoic acid, gamma-ox        | 2051958    | 160             | J                | 12.72    |     | ug/Kg    |
| 2-(2-Carboxyvinyl)pyridine, trans     | 7340229    | 330             | J                | 12.77    |     | ug/Kg    |
| 5,12-Naphthacenedione                 | 1090137    | 86              | J                | 13.86    |     | ug/Kg    |
| Perylene                              | 198550     | 270             | J                | 14.46    |     | ug/Kg    |

# *Premier Environmental Services*

## APPENDIX C

## Metals

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: S1002

Method Type: SW846

Sample ID: S1002-02

Client ID: FIELDBLANK

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.: S1002

SAS No.: S1002

Matrix: WATER

Date Received: 1/2/04

Level: LOW

% Solids:

Sample Wt/Vol: 100.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 32.8          | ug/L  | J |      | P  | 18.4 | P1            | P101114        |
| Antimony  | 7440-36-0 | 2.0           | ug/L  | U |      | P  | 2.0  | P1            | P101114        |
| Arsenic   | 7440-38-2 | 4.0           | ug/L  | U |      | P  | 4.0  | P1            | P101114        |
| Barium    | 7440-39-3 | 9.9           | ug/L  | U |      | P  | 9.9  | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.66          | ug/L  | J |      | P  | 0.10 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P101114        |
| Calcium   | 7440-70-2 | 36.2          | ug/L  | U |      | P  | 36.2 | P1            | P101114        |
| Chromium  | 7440-47-3 | 1.4           | ug/L  | U |      | P  | 1.4  | P1            | P101114        |
| Cobalt    | 7440-48-4 | 0.70          | ug/L  | U |      | P  | 0.70 | P1            | P101114        |
| Copper    | 7440-50-8 | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P101114        |
| Iron      | 7439-89-6 | 22.2          | ug/L  | U |      | P  | 22.2 | P1            | P101114        |
| Lead      | 7439-92-1 | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P101114        |
| Magnesium | 7439-95-4 | 7.0           | ug/L  | U |      | P  | 7.0  | P1            | P101114        |
| Manganese | 7439-96-5 | 0.20          | ug/L  | U |      | P  | 0.20 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.20          | ug/L  | U |      | CV | 0.20 | CV2           | 010904C        |
| Nickel    | 7440-02-0 | 2.0           | ug/L  | U |      | P  | 2.0  | P1            | P101114        |
| Potassium | 7440-09-7 | 64.5          | ug/L  | J |      | P  | 27.3 | P1            | P101114        |
| Selenium  | 7782-49-2 | 1.3           | ug/L  | U |      | P  | 1.3  | P1            | P101114        |
| Silver    | 7440-22-4 | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P101114        |
| Sodium    | 7440-23-5 | 217           | ug/L  | U |      | P  | 217  | P1            | P101114        |
| Thallium  | 7440-28-0 | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P101114        |
| Vanadium  | 7440-62-2 | 1.4           | ug/L  | U |      | P  | 1.4  | P1            | P101114        |
| Zinc      | 7440-66-6 | 1.8           | ug/L  | U |      | P  | 1.8  | P1            | P101114        |

## Metals

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC      SDG No.: S1002      Method Type: SW846

Sample ID: S1002-03Client ID: SP-2Contract: Nelson, Pope & Voorhis, LLCLab Code: CHEMEDCase No.: S1002SAS No.: S1002Matrix: SOILDate Received: 1/2/04Level: LOW% Solids: 96.7Sample Wt/Vol: 1.0Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 405           | mg/Kg |   |      | P  | 0.67 | P1            | P101114        |
| Antimony  | 7440-36-0 | 0.21          | mg/Kg | U |      | P  | 0.21 | P1            | P101114        |
| Arsenic   | 7440-38-2 | 0.27          | mg/Kg | U |      | P  | 0.27 | P1            | P101114        |
| Barium    | 7440-39-3 | 1.5           | mg/Kg | J |      | P  | 0.14 | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.06          | mg/Kg | J |      | P  | 0.01 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.05          | mg/Kg | U |      | P  | 0.05 | P1            | P101114        |
| Calcium   | 7440-70-2 | 277           | mg/Kg | J |      | P  | 2.4  | P1            | P101114        |
| Chromium  | 7440-47-3 | 1.4           | mg/Kg |   |      | P  | 0.07 | P1            | P101114        |
| Cobalt    | 7440-48-4 | 0.08          | mg/Kg | J |      | P  | 0.07 | P1            | P101114        |
| Copper    | 7440-50-8 | 4.1           | mg/Kg |   |      | P  | 0.16 | P1            | P101114        |
| Iron      | 7439-89-6 | 918           | mg/Kg |   | N    | P  | 1.7  | P1            | P101114        |
| Lead      | 7439-92-1 | 3.2           | mg/Kg |   |      | P  | 0.19 | P1            | P101114        |
| Magnesium | 7439-95-4 | 112           | mg/Kg | J |      | P  | 1.4  | P1            | P101114        |
| Manganese | 7439-96-5 | 3.8           | mg/Kg |   |      | P  | 0.01 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg |   |      | CV | 0.01 | CV2           | 010604B        |
| Nickel    | 7440-02-0 | 0.65          | mg/Kg | J |      | P  | 0.23 | P1            | P101114        |
| Potassium | 7440-09-7 | 43.2          | mg/Kg | J |      | P  | 3.7  | P1            | P101114        |
| Selenium  | 7782-49-2 | 0.39          | mg/Kg | J |      | P  | 0.34 | P1            | P101114        |
| Silver    | 7440-22-4 | 0.38          | mg/Kg | U |      | P  | 0.38 | P1            | P101114        |
| Sodium    | 7440-23-5 | 75.3          | mg/Kg | J |      | P  | 41.0 | P1            | P101114        |
| Thallium  | 7440-28-0 | 0.60          | mg/Kg | U |      | P  | 0.60 | P1            | P101114        |
| Vanadium  | 7440-62-2 | 1.1           | mg/Kg | J |      | P  | 0.10 | P1            | P101114        |
| Zinc      | 7440-66-6 | 9.2           | mg/Kg |   |      | P  | 0.06 | P1            | P101114        |



## Metals

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## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC      SDG No.: S1002      Method Type: SW846

Sample ID: S1002-04Client ID: SP-4Contract: Nelson, Pope & Voorhis, LLCLab Code: CHEMEDCase No.: S1002SAS No.: S1002Matrix: SOILDate Received: 1/2/04Level: LOW% Solids: 97.4Sample Wt/Vol: 1.0Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 443           | mg/Kg |   |      | P  | 0.65 | P1            | P101114        |
| Antimony  | 7440-36-0 | 0.20          | mg/Kg | U |      | P  | 0.20 | P1            | P101114        |
| Arsenic   | 7440-38-2 | 0.26          | mg/Kg | U |      | P  | 0.26 | P1            | P101114        |
| Barium    | 7440-39-3 | 3.0           | mg/Kg | J |      | P  | 0.14 | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.07          | mg/Kg | J |      | P  | 0.00 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.05          | mg/Kg | U |      | P  | 0.05 | P1            | P101114        |
| Calcium   | 7440-70-2 | 277           | mg/Kg | J |      | P  | 2.3  | P1            | P101114        |
| Chromium  | 7440-47-3 | 1.7           | mg/Kg |   |      | P  | 0.07 | P1            | P101114        |
| Cobalt    | 7440-48-4 | 0.21          | mg/Kg | J |      | P  | 0.07 | P1            | P101114        |
| Copper    | 7440-50-8 | 2.4           | mg/Kg | J |      | P  | 0.15 | P1            | P101114        |
| Iron      | 7439-89-6 | 773           | mg/Kg |   | N    | P  | 1.6  | P1            | P101114        |
| Lead      | 7439-92-1 | 1.2           | mg/Kg |   |      | P  | 0.18 | P1            | P101114        |
| Magnesium | 7439-95-4 | 128           | mg/Kg | J |      | P  | 1.4  | P1            | P101114        |
| Manganese | 7439-96-5 | 33.2          | mg/Kg |   |      | P  | 0.01 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg | U |      | CV | 0.01 | CV2           | 010604B        |
| Nickel    | 7440-02-0 | 0.69          | mg/Kg | J |      | P  | 0.22 | P1            | P101114        |
| Potassium | 7440-09-7 | 47.8          | mg/Kg | J |      | P  | 3.6  | P1            | P101114        |
| Selenium  | 7782-49-2 | 0.33          | mg/Kg | U |      | P  | 0.33 | P1            | P101114        |
| Silver    | 7440-22-4 | 0.37          | mg/Kg | U |      | P  | 0.37 | P1            | P101114        |
| Sodium    | 7440-23-5 | 82.3          | mg/Kg | J |      | P  | 39.5 | P1            | P101114        |
| Thallium  | 7440-28-0 | 0.58          | mg/Kg | U |      | P  | 0.58 | P1            | P101114        |
| Vanadium  | 7440-62-2 | 1.0           | mg/Kg | J |      | P  | 0.10 | P1            | P101114        |
| Zinc      | 7440-66-6 | 4.7           | mg/Kg |   |      | P  | 0.06 | P1            | P101114        |

## Metals

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson,Pope & Voorhis, LLC      SDG No.: S1002      Method Type: SW846

Sample ID: S1002-05Client ID: DUP-1Contract: Nelson,Pope & Voorhis, LLCLab Code: CHEMEDCase No.: S1002SAS No.: S1002Matrix: SOILDate Received: 1/2/04Level: LOW% Solids: 97.3Sample Wt/Vol: 1.0Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 423           | mg/Kg |   |      | P  | 0.65 | P1            | P101114        |
| Antimony  | 7440-36-0 | 0.20          | mg/Kg | U |      | P  | 0.20 | P1            | P101114        |
| Arsenic   | 7440-38-2 | 0.26          | mg/Kg | U |      | P  | 0.26 | P1            | P101114        |
| Barium    | 7440-39-3 | 3.1           | mg/Kg | J |      | P  | 0.14 | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.09          | mg/Kg | J |      | P  | 0.01 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.84          | mg/Kg |   |      | P  | 0.05 | P1            | P101114        |
| Calcium   | 7440-70-2 | 292           | mg/Kg | J |      | P  | 2.3  | P1            | P101114        |
| Chromium  | 7440-47-3 | 1.3           | mg/Kg |   |      | P  | 0.07 | P1            | P101114        |
| Cobalt    | 7440-48-4 | 0.15          | mg/Kg | J |      | P  | 0.07 | P1            | P101114        |
| Copper    | 7440-50-8 | 2.9           | mg/Kg |   |      | P  | 0.15 | P1            | P101114        |
| Iron      | 7439-89-6 | 1100          | mg/Kg |   | N    | P  | 1.6  | P1            | P101114        |
| Lead      | 7439-92-1 | 1.4           | mg/Kg |   |      | P  | 0.18 | P1            | P101114        |
| Magnesium | 7439-95-4 | 106           | mg/Kg | J |      | P  | 1.4  | P1            | P101114        |
| Manganese | 7439-96-5 | 37.6          | mg/Kg |   |      | P  | 0.01 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg | U |      | CV | 0.01 | CV2           | 010604B        |
| Nickel    | 7440-02-0 | 0.63          | mg/Kg | J |      | P  | 0.22 | P1            | P101114        |
| Potassium | 7440-09-7 | 41.6          | mg/Kg | J |      | P  | 3.6  | P1            | P101114        |
| Selenium  | 7782-49-2 | 0.33          | mg/Kg | U |      | P  | 0.33 | P1            | P101114        |
| Silver    | 7440-22-4 | 0.37          | mg/Kg | U |      | P  | 0.37 | P1            | P101114        |
| Sodium    | 7440-23-5 | 73.3          | mg/Kg | J |      | P  | 39.9 | P1            | P101114        |
| Thallium  | 7440-28-0 | 0.58          | mg/Kg | U |      | P  | 0.58 | P1            | P101114        |
| Vanadium  | 7440-62-2 | 1.2           | mg/Kg | J |      | P  | 0.10 | P1            | P101114        |
| Zinc      | 7440-66-6 | 5.3           | mg/Kg |   |      | P  | 0.06 | P1            | P101114        |

# Chemtech Consulting Group

## Metals

- 1 -

### INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC SDG No.: S1002 Method Type: SW846

Sample ID: S1002-06

Client ID: CP-1-0

Contract: Nelson, Pope & Voorhis, LLC

Lab Code: CHEMED

Case No.: S1002

SAS No.: S1002

Matrix: SOIL

Date Received: 1/2/04

Level: LOW

% Solids: 93.6

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 4500          | mg/Kg |   |      | P  | 0.69 | P1            | P101114        |
| Antimony  | 7440-36-0 | 0.21          | mg/Kg | U |      | P  | 0.21 | P1            | P101114        |
| Arsenic   | 7440-38-2 | 2.6           | mg/Kg |   |      | P  | 0.28 | P1            | P101114        |
| Barium    | 7440-39-3 | 11.3          | mg/Kg | J |      | P  | 0.15 | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.22          | mg/Kg | J |      | P  | 0.01 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.47          | mg/Kg | J |      | P  | 0.05 | P1            | P101114        |
| Calcium   | 7440-70-2 | 460           | mg/Kg | J |      | P  | 2.5  | P1            | P101114        |
| Chromium  | 7440-47-3 | 5.5           | mg/Kg |   |      | P  | 0.07 | P1            | P101114        |
| Cobalt    | 7440-48-4 | 2.6           | mg/Kg | J |      | P  | 0.07 | P1            | P101114        |
| Copper    | 7440-50-8 | 6.0           | mg/Kg |   |      | P  | 0.16 | P1            | P101114        |
| Iron      | 7439-89-6 | 6160          | mg/Kg | J | N    | P  | 1.7  | P1            | P101114        |
| Lead      | 7439-92-1 | 5.6           | mg/Kg | J |      | P  | 0.19 | P1            | P101114        |
| Magnesium | 7439-95-4 | 634           | mg/Kg |   |      | P  | 1.5  | P1            | P101114        |
| Manganese | 7439-96-5 | 95.1          | mg/Kg |   |      | P  | 0.01 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.03          | mg/Kg |   |      | CV | 0.01 | CV2           | 010604B        |
| Nickel    | 7440-02-0 | 3.5           | mg/Kg | J |      | P  | 0.24 | P1            | P101114        |
| Potassium | 7440-09-7 | 400           | mg/Kg | J |      | P  | 3.8  | P1            | P101114        |
| Selenium  | 7782-49-2 | 0.82          | mg/Kg | J |      | P  | 0.35 | P1            | P101114        |
| Silver    | 7440-22-4 | 0.40          | mg/Kg | U |      | P  | 0.40 | P1            | P101114        |
| Sodium    | 7440-23-5 | 172           | mg/Kg | J |      | P  | 42.3 | P1            | P101114        |
| Thallium  | 7440-28-0 | 0.62          | mg/Kg | U |      | P  | 0.62 | P1            | P101114        |
| Vanadium  | 7440-62-2 | 8.2           | mg/Kg |   |      | P  | 0.11 | P1            | P101114        |
| Zinc      | 7440-66-6 | 11.3          | mg/Kg |   |      | P  | 0.06 | P1            | P101114        |

## Metals

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC      SDG No.: S1002      Method Type: SW846

Sample ID: S1002-07Client ID: SP-7Contract: Nelson, Pope & Voorhis, LLCLab Code: CHEMEDCase No.: S1002SAS No.: S1002Matrix: SOILDate Received: 1/2/04Level: LOW% Solids: 95.3Sample Wt/Vol: 1.0Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 90.8          | mg/Kg |   |      | P  | 0.68 | P1            | P101114        |
| Antimony  | 7440-36-0 | 0.21          | mg/Kg | U |      | P  | 0.21 | P1            | P101114        |
| Arsenic   | 7440-38-2 | 0.27          | mg/Kg | U |      | P  | 0.27 | P1            | P101114        |
| Barium    | 7440-39-3 | 1.2           | mg/Kg | J |      | P  | 0.15 | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.04          | mg/Kg | J |      | P  | 0.01 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.05          | mg/Kg | U |      | P  | 0.05 | P1            | P101114        |
| Calcium   | 7440-70-2 | 426           | mg/Kg | J |      | P  | 2.4  | P1            | P101114        |
| Chromium  | 7440-47-3 | 2.2           | mg/Kg |   |      | P  | 0.07 | P1            | P101114        |
| Cobalt    | 7440-48-4 | 0.07          | mg/Kg | U |      | P  | 0.07 | P1            | P101114        |
| Copper    | 7440-50-8 | 1.7           | mg/Kg | J |      | P  | 0.16 | P1            | P101114        |
| Iron      | 7439-89-6 | 728           | mg/Kg |   | N    | P  | 1.7  | P1            | P101114        |
| Lead      | 7439-92-1 | 1.7           | mg/Kg |   |      | P  | 0.19 | P1            | P101114        |
| Magnesium | 7439-95-4 | 86.2          | mg/Kg | J |      | P  | 1.5  | P1            | P101114        |
| Manganese | 7439-96-5 | 3.4           | mg/Kg |   |      | P  | 0.01 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg | U |      | CV | 0.01 | CV2           | 010604B        |
| Nickel    | 7440-02-0 | 0.69          | mg/Kg | J |      | P  | 0.23 | P1            | P101114        |
| Potassium | 7440-09-7 | 36.7          | mg/Kg | J |      | P  | 3.8  | P1            | P101114        |
| Selenium  | 7782-49-2 | 0.35          | mg/Kg | U |      | P  | 0.35 | P1            | P101114        |
| Silver    | 7440-22-4 | 0.39          | mg/Kg | U |      | P  | 0.39 | P1            | P101114        |
| Sodium    | 7440-23-5 | 78.8          | mg/Kg | J |      | P  | 41.6 | P1            | P101114        |
| Thallium  | 7440-28-0 | 0.61          | mg/Kg | U |      | P  | 0.61 | P1            | P101114        |
| Vanadium  | 7440-62-2 | 0.71          | mg/Kg | J |      | P  | 0.10 | P1            | P101114        |
| Zinc      | 7440-66-6 | 5.2           | mg/Kg |   |      | P  | 0.06 | P1            | P101114        |

# Chemtech Consulting Group

## Metals

- 1 -

### INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope & Voorhis, LLC SDG No.: S1002 Method Type: SW846

Sample ID: S1002-10

Client ID: SP-1

Contract: Nelson, Pope & Voorhis, LLC

Lab Code: CHEMED

Case No.: S1002

SAS No.: S1002

Matrix: SOIL

Date Received: 1/2/04

Level: LOW

% Solids: 93.1

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 908           | mg/Kg |   |      | P  | 0.70 | P1            | P101114        |
| Antimony  | 7440-36-0 | 0.21          | mg/Kg | U |      | P  | 0.21 | P1            | P101114        |
| Arsenic   | 7440-38-2 | 0.28          | mg/Kg | U |      | P  | 0.28 | P1            | P101114        |
| Barium    | 7440-39-3 | 9.5           | mg/Kg | J |      | P  | 0.15 | P1            | P101114        |
| Beryllium | 7440-41-7 | 0.15          | mg/Kg | J |      | P  | 0.01 | P1            | P101114        |
| Cadmium   | 7440-43-9 | 0.25          | mg/Kg | J |      | P  | 0.05 | P1            | P101114        |
| Calcium   | 7440-70-2 | 312           | mg/Kg | J |      | P  | 2.5  | P1            | P101114        |
| Chromium  | 7440-47-3 | 2.5           | mg/Kg |   |      | P  | 0.08 | P1            | P101114        |
| Cobalt    | 7440-48-4 | 0.63          | mg/Kg | J |      | P  | 0.08 | P1            | P101114        |
| Copper    | 7440-50-8 | 2.5           | mg/Kg | J |      | P  | 0.16 | P1            | P101114        |
| Iron      | 7439-89-6 | 2700          | mg/Kg |   | N    | P  | 1.7  | P1            | P101114        |
| Lead      | 7439-92-1 | 3.8           | mg/Kg | J |      | P  | 0.19 | P1            | P101114        |
| Magnesium | 7439-95-4 | 235           | mg/Kg | J |      | P  | 1.5  | P1            | P101114        |
| Manganese | 7439-96-5 | 22.2          | mg/Kg |   |      | P  | 0.01 | P1            | P101114        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg | U |      | CV | 0.01 | CV2           | 010604B        |
| Nickel    | 7440-02-0 | 1.00          | mg/Kg | J |      | P  | 0.24 | P1            | P101114        |
| Potassium | 7440-09-7 | 165           | mg/Kg | J |      | P  | 3.9  | P1            | P101114        |
| Selenium  | 7782-49-2 | 0.35          | mg/Kg | U |      | P  | 0.35 | P1            | P101114        |
| Silver    | 7440-22-4 | 0.40          | mg/Kg | U |      | P  | 0.40 | P1            | P101114        |
| Sodium    | 7440-23-5 | 86.4          | mg/Kg | J |      | P  | 42.5 | P1            | P101114        |
| Thallium  | 7440-28-0 | 0.62          | mg/Kg | U |      | P  | 0.62 | P1            | P101114        |
| Vanadium  | 7440-62-2 | 3.6           | mg/Kg | J |      | P  | 0.11 | P1            | P101114        |
| Zinc      | 7440-66-6 | 16.5          | mg/Kg |   |      | P  | 0.06 | P1            | P101114        |

# Premier Environmental Services

## APPENDIX C



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

CHEMTECH JOB NO.:

51002

CHEMTECH QUOTE NO.:

| CLIENT INFORMATION                                                                                                                                                      |                                  |                  | PROJECT INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |       | BILLING INFORMATION                                                 |               |   |   |   |   |   |   |   |   |                                                                                                                             |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------|---------------------------------------------------------------------|---------------|---|---|---|---|---|---|---|---|-----------------------------------------------------------------------------------------------------------------------------|--|--|
| COMPANY: NP2V<br>ADDRESS: 572 WALT WORTHMAN RD<br>CITY: MELVILLE STATE: NY ZIP: 11747<br>ATTENTION: ETC ARNESEN<br>PHONE: (516) 429-5665 FAX:                           |                                  |                  | PROJECT NAME: CUMUL CORPUS<br>PROJECT NO.: 01075 LOCATION:<br>PROJECT MANAGER: ETC ARNESEN<br>E-MAIL:<br>PHONE: FAX:                                                                                                                                                                                                                                                                                                                                         |                      |       | BILL TO: POB:<br>ADDRESS:<br>CITY: STATE: ZIP:<br>ATTENTION: PHONE: |               |   |   |   |   |   |   |   |   |                                                                                                                             |  |  |
| DATA TURNAROUND INFORMATION<br>FAX: _____ DAYS *<br>HARD COPY: _____ DAYS *<br>EDD: _____ DAYS *<br>* TO BE APPROVED BY CHEMTECH<br>** NORMAL TURNAROUND TIME - 14 DAYS |                                  |                  | DATA DELIVERABLE INFORMATION<br><input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> NY STATE CATEGORY A<br><input type="checkbox"/> RESULTS PLUS QC <input checked="" type="checkbox"/> NY STATE CATEGORY B<br><input type="checkbox"/> REGULATORY FORMAT, STATE:<br><input type="checkbox"/> NEW JERSEY REDUCED DELIVERABLES<br><input type="checkbox"/> CLP <input type="checkbox"/> OTHER: _____<br><input type="checkbox"/> EDD FORMAT: _____ |                      |       | ANALYSIS<br>1 2 3 4 5 6 7 8 9<br>VOC SVOC METALS                    |               |   |   |   |   |   |   |   |   |                                                                                                                             |  |  |
| CHEMTECH<br>SAMPLE<br>ID                                                                                                                                                | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                               | SAMPLE<br>COLLECTION |       | # OF BOTTLES                                                        | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS<br>← Specify Preservatives<br>A-HCl B-HNO <sub>3</sub><br>C-H <sub>2</sub> SO <sub>4</sub> D-NaOH<br>E-ICE F-Other |  |  |
|                                                                                                                                                                         |                                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DATE                 | TIME  |                                                                     | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |                                                                                                                             |  |  |
| 1.                                                                                                                                                                      | 1                                | TREP BLANK       | H <sub>2</sub> O                                                                                                                                                                                                                                                                                                                                                                                                                                             | ✓                    | 12/30 |                                                                     | 2             | ✓ |   |   |   |   |   |   |   |                                                                                                                             |  |  |
| 2.                                                                                                                                                                      | 2                                | FIELD BLANK      | H <sub>2</sub> O                                                                                                                                                                                                                                                                                                                                                                                                                                             | ✓                    | 12/30 | 0900                                                                | 4             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 3.                                                                                                                                                                      | 3                                | SP-2             | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 0915                                                                | 2             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 4.                                                                                                                                                                      | 4                                | SP-4             | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 1115                                                                | 2             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 5.                                                                                                                                                                      | 5                                | DUP-1            | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 1130                                                                | 2             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 6.                                                                                                                                                                      | 6                                | CP-1-0           | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 1230                                                                | 2             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 7.                                                                                                                                                                      | 7                                | SP-7             | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 3:30                                                                | 2             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 8.                                                                                                                                                                      | 8, 9                             | SP-7 MS/MSD      | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 3:30                                                                | 4             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 9.                                                                                                                                                                      | 10                               | SP-1             | Soil                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ✓                    | 12/30 | 4:30                                                                | 2             | ✓ | ✓ | ✓ |   |   |   |   |   |                                                                                                                             |  |  |
| 10.                                                                                                                                                                     |                                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |       |                                                                     |               |   |   |   |   |   |   |   |   |                                                                                                                             |  |  |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                            |                               |                                        |                                                                                                                                                                                                                                                                 |
|--------------------------------------------|-------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER:<br>1. ETC ARNESEN | DATE/TIME:<br>12/30/05:00     | RECEIVED BY:<br>1. _____               | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Complaint <input type="checkbox"/> Non-Complaint <input checked="" type="checkbox"/> Temp. of Cooler 3<br>MeOH extraction requires an additional 4 oz jar for percent solid.<br>Comments: |
| RELINQUISHED BY:<br>_____                  | DATE/TIME:<br>_____           | RECEIVED BY:<br>2. _____               |                                                                                                                                                                                                                                                                 |
| SIGNED BY:<br>VDS                          | DATE/TIME:<br>10:00<br>1/2/04 | RECEIVED FOR LAB BY:<br>3. ETC ARNESEN |                                                                                                                                                                                                                                                                 |

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT  
CHEMTECH: ☐ PICKED UP ☒ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

Page \_\_\_\_\_ of \_\_\_\_\_

ERIC ARNESEN  
(631) 427-5665  
NELSON, POPE & VOORHIS, INC.  
572 WALT WHITMAN ROAD  
MELVILLE NY 11747-2109

25 LBS

1 OF 1

RS

SHIP TO:  
SHIPPING DEPARTMENT  
(908) 789-8900  
CHEMTECH CONSULTING  
284 SHEFFIELD STREET  
MOUNTAINSIDE NJ 07092-2319



NJ 078 9-61



UPS GROUND

TRACKING #: 1Z A17 04V 90 4752 2592



BILLING: P/P  
DESC: COOLER  
RETURN SERVICE

*Shawn*  
11/02/04  
10:05

UDW 5.0.37 UPS Thermal 2 24.0R 10/2003

A1704V DEC 10, 2003 ACT WT 25.0 HPK 1  
SERVICE GND COM BILL WT 25  
TRACKING# 1ZA1704V9047522592  
REF 1:  
REF 2:

|                         |                     |
|-------------------------|---------------------|
| HANDLING CHARGE \$0.00  | SERVICE \$6.46      |
| REFERENCE RATE CHARGES: | RS \$0.50           |
| IV \$0.00               | COD \$0.00          |
| DC \$0.00               | HZMT \$0.00         |
| AH \$0.00               | NTFY \$0.00         |
| TOT REF CHG \$6.96      | REF+HANDLING \$6.96 |



# Premier Environmental Services

## APPENDIX D

# Premier Environmental Services

June 10, 2004

Kurt Hummler  
Chemtech Consulting Group  
284 Sheffield Street  
Mountainside, NJ 07092

Dear Mr. Hummler,

Premier Environmental Services is performing the data review for the samples collected at the Coral Graphics-New South Road Project. The samples were collected in February, 2004. Below are questions associated with the cited data set. I have organized the questions for ease of review by either the project manager or QA Officer.

## Project S1002 - TAL Metals

The Form 14's that are associated with both the ICP and Mercury analyses in this data set were not included in the data report for review. The ICP analyses were performed 1/11/04. The Mercury analyses were performed on 1/6/04 and 1/9/04. Please provide these forms for review.

Thank you in advance for your prompt response to these data issues. If there are any additional questions associated with this data set, please do not hesitate to contact me at 516-223-9761.

Sincerely,



Renee Cohen

Cc: Eric Arnesen - Pope, Nelson and Voorhis

6/16/04 - slw kurt - will fax data today

**CHEMTECH**

**284 Sheffield Street, Mountainside, NJ 07092**  
**Tel. : 908-789-8900 Fax : 908-789-8922**

June 15, 2004

Nelson, Pope & Voorhis, LLC  
572 Walt Whitman Road  
Melville, NY 11747

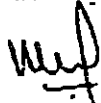
ATTN: Eric Amesen

Re: Client Project # Coral Graphics-New South Road  
Chemtech Project # S1002

Enclosed please find the corrected pages for the above mentioned project. Please replace in the hard copy. The pages have been renumbered. The Forms 14s were not in the original package.

We are extremely sorry for the inconvenience caused to you. Please do not hesitate to contact us if we can be of further service at (908) 789-8900 Ext. 204. We appreciate your patience in this matter.

Sincerely



Krupa Dubey  
QA/QC

Metals  
14  
ANALYSIS RUN LOG

Client: Nelson, Pope & Voorhis, LLC Contract: Nelson, Pope & Voorhis, LLC  
Lab Code: CHEMED -- Case No.: S1002 SAS No.: S1002 SDG No.: S1002  
Instrument ID Number: CV2 Method: CV Run Number: 010604B  
Start Date: 1/6/2004 End Date: 1/6/2004

| EPA<br>Sample<br>No. | D/F   | Time | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
|----------------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|                      |       |      |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | C<br>F | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>I | Z<br>N | C<br>N |  |  |
| Std01Rep1            | 1.00  | 1033 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| Std02Rep1            | 1.00  | 1036 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| Std03Rep1            | 1.00  | 1038 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| Std04Rep1            | 1.00  | 1040 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| Std05Rep1            | 1.00  | 1042 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| Std06Rep1            | 1.00  | 1045 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| ICV                  | 1.00  | 1047 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| ICB                  | 1.00  | 1050 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CCV                  | 1.00  | 1052 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CCB                  | 1.00  | 1054 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CRI                  | 1.00  | 1056 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1059 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1101 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-2                 | 1.00  | 1103 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-4                 | 1.00  | 1106 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| DUP-1                | 1.00  | 1108 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CP-1-0               | 1.00  | 1110 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-7                 | 1.00  | 1113 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-7D                | 1.00  | 1115 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-7S                | 1.00  | 1118 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CCV                  | 1.00  | 1120 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CCB                  | 1.00  | 1123 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-7SD               | 1.00  | 1125 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| SP-1                 | 1.00  | 1128 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| FB12325BL            | 1.00  | 1130 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| FB12325BS            | 50.00 | 1132 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CCV                  | 1.00  | 1135 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |
| CCB                  | 1.00  | 1137 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |  |  |

**Metals**  
 14  
**ANALYSIS RUN LOG**

Client: Nelson, Pope & Voorhis, LLC Contract: Nelson, Pope & Voorhis, LLC  
 Lab Code: CHEMED Case No.: S1002 SAS No.: S1002 SDG No.: S1002  
 Instrument ID Number: CV2 Method: CV Run Number: 010904C  
 Start Date: 1/9/2004 End Date: 1/9/2004

| EPA<br>Sample<br>No. | D/F   | Time | t R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
|----------------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--|--|--|--|
|                      |       |      |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>V | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>I | S<br>E | A<br>G | N<br>A | T<br>L | V | Z<br>N | C<br>N |  |  |  |  |
| Std01Rep1            | 1.00  | 1551 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| Std02Rep1            | 1.00  | 1554 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| Std03Rep1            | 1.00  | 1556 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| Std04Rep1            | 1.00  | 1559 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| Std05Rep1            | 1.00  | 1601 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| Std06Rep1            | 1.00  | 1603 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ICV                  | 1.00  | 1606 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ICB                  | 1.00  | 1608 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCV                  | 1.00  | 1611 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCB                  | 1.00  | 1613 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CRI                  | 1.00  | 1615 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1618 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1620 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1622 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 50.00 | 1624 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| PB12352BL            | 1.00  | 1627 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1629 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1631 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1634 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1636 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCV                  | 1.00  | 1638 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCB                  | 1.00  | 1641 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1643 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00  | 1645 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| FIELD BLANK          | 1.00  | 1648 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCV                  | 1.00  | 1651 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCB                  | 1.00  | 1653 |     |          |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |   |        |        |  |  |  |  |

683 c/c  
 6/15/04

ANALYSIS RUN LOG  
14  
METS

Client: Nelson, Pope & Voorhis, LLC  
Contract: Nelson, Pope & Voorhis, LLC

Lab Code:                  CHEMED        -- Case No.: S1002

Method: P Run Number: P101114

|             |           |           |           |
|-------------|-----------|-----------|-----------|
| Start Date: | 1/11/2004 | End Date: | 1/11/2004 |
|-------------|-----------|-----------|-----------|

[illegible][illegible]

Metals  
14  
ANALYSIS RUN LOG

Client: Nelson, Pope & Voorhis, LLC Contract: Nelson, Pope & Voorhis, LLC  
 Lab Code: CHEMED Case No.: S1002 SAS No.: S1002 SDG No.: S1002  
 Instrument ID Number: P1 Method: P Run Number: P101114  
 Start Date: 1/11/2004 End Date: 1/11/2004

| EPA<br>Sample<br>No. | D/F   | Time | t R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
|----------------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|
|                      |       |      |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>G | A<br>L | N<br>A | T<br>L | V<br>N | Z<br>N | C<br>B |  |  |
| CCV                  | 1.00  | 1152 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| CCB                  | 1.00  | 1155 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| SP-1                 | 1.00  | 1157 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| ZZZZZZ               | 1.00  | 1159 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1201 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1203 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| PB12324BL            | 1.00  | 1205 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| ZZZZZZ               | 1.00  | 1208 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1209 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1212 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| FIELD BLANK          | 1.00  | 1214 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| ZZZZZZ               | 1.00  | 1216 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| CCV                  | 1.00  | 1218 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| CCB                  | 1.00  | 1220 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| ZZZZZZ               | 1.00  | 1223 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1225 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1227 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1229 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1231 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1233 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1235 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1237 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1238 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 5.00  | 1240 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| CCV                  | 1.00  | 1242 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| CCB                  | 1.00  | 1244 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |
| ZZZZZZ               | 1.00  | 1246 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1248 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1250 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1252 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 2.00  | 1257 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 4.00  | 1259 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1301 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1303 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 10.00 | 1305 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |
| ZZZZZZ               | 1.00  | 1307 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |

Metals  
14  
ANALYSIS RUN LOG

Client: Nelson, Pope & Voorhis, LLC Contract: Nelson, Pope & Voorhis, LLC  
Lab Code: CHEMED Case No.: S1002 SAS No.: S1002 SDG No.: S1002  
Instrument ID Number: P1 Method: P Run Number: P101114  
Start Date: 1/11/2004 End Date: 1/11/2004

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--|--|--|--|
|                      |      |      |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>E | A<br>G | N<br>A | T<br>L | V | Z<br>N | C<br>N |  |  |  |  |
| CCV                  | 1.00 | 1309 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X |        |        |  |  |  |  |
| CCB                  | 1.00 | 1311 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1316 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1318 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1320 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1322 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1324 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1326 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1338 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1340 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1343 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1345 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCV                  | 1.00 | 1347 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X |        |        |  |  |  |  |
| CCB                  | 1.00 | 1353 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1355 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1357 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1358 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1400 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 5.00 | 1403 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1405 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1407 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1409 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1410 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1413 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| CCV                  | 1.00 | 1415 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X |        |        |  |  |  |  |
| CCB                  | 1.00 | 1417 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1421 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1424 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1426 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1428 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 5.00 | 1430 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1432 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1434 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1436 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1439 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |
| ZZZZZZ               | 1.00 | 1441 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |  |  |  |  |



Metals  
14  
ANALYSIS RUN LOG

Client: Nelson, Pope & Voorhis, LLC Contract: Nelson, Pope & Voorhis, LLC  
Lab Code: CHEMED Case No.: S1002 SAS No.: S1002 SDG No.: S1002  
Instrument ID Number: P1 Method: P Run Number: P101114  
Start Date: 1/11/2004 End Date: 1/11/2004

| EPA<br>Sample<br>No. | D/F  | Time | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
|----------------------|------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|
|                      |      |      |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | H<br>N | K<br>I | S<br>E | A<br>G | N<br>A | T<br>L | V<br>X | Z<br>N | C<br>N |  |  |  |  |  |  |
| CCV                  | 1.00 | 1443 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |  |  |  |  |
| CCB                  | 1.00 | 1446 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1448 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1449 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1452 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1454 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 5.00 | 1455 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1457 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1459 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1501 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1503 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| ZZZZZZ               | 1.00 | 1505 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |  |  |  |  |  |
| CCV                  | 1.00 | 1507 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |  |  |  |  |
| CCB                  | 1.00 | 1509 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      |        |  |  |  |  |  |  |

# *Premier Environmental Services*

DATA USABILITY SUMMARY REPORT (DUSR)  
OF THE  
CORAL GRAPHICS - NEW SOUTH SOUTH ROAD SITE

ORGANIC AND INORGANIC ANALYSES  
IN AQUEOUS AND NON-AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP  
MOUNTAINSIDE, NEW JERSEY

REPORT NUMBER: R2673

June, 2004

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### NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** Volatile Organic Analyses, Semivolatile Organic Analyses,  
**SITE:** Coral Graphics – New South Road  
Hicksville, New York  
**CONTRACT LAB:** Chemtech  
Mountainside, New Jersey  
**REVIEWER:** Renee Cohen  
**DATE REVIEW COMPLETED:** June, 2004  
**MATRIX:** Aqueous and Non Aqueous

The data validation was performed according to the guidelines in the described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "Y" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment includes six (6) soil samples, one (1) Field Blank and one (1) Trip Blank sample collected May 29, 2003. The samples associated with this data set are summarized in Table 1 of this report. All of the samples were shipped to Chemtech Laboratories, located in Mountainside, New Jersey. The samples were received at the laboratory on May 30, 2003 via UPS. All samples were received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260) and Semivolatile Organic Analytes (SVOA-EPA Method 8270) as specified on the Chain of Custody (COC) documentation that accompanied the samples to the laboratory. A copy of the COC documents associated with each data set is located in Appendix C of this report. Appendix D of this data report includes copies of correspondence between this data validator and the laboratory. In addition, the samples were analyzed for TAL Metals. The inorganic data review is located in the Inorganic Data Usability Summary Report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. OVERVIEW:**

The six (6) soil samples, one (1) Field Blank and one (1) Trip Blank sample were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for the organic analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260 and 8270. The laboratory provided a deliverables package in accordance with the guidelines in the NYSDEC ASP, Rev '95, Category B.

### **2. HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection. Semivolatile Organic analyses are to be prepared/extracted within five (5) days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly samples is to prepare the aqueous samples within 7 days of collection and the soil samples within fourteen days of collection.

#### **Volatile Organic Analyses**

The aqueous and non-aqueous samples in this data set were analyzed for Volatile Organic Analytes. The samples and associated QC samples were analyzed within the ten (10) days of VTSR.

#### **Semivolatile Organic Analyses**

Six (6) soils and the Field Blank sample were validated in this data set. The soil samples were extracted in one (1) batch on June 2, 2003. The aqueous Field Blank sample was extracted in one (1) batch on June 2, 2003. The samples in this data set were prepared and analyzed within the NYS DEC ASP holding time.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **3. SURROGATES:**

**All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.**

Volatile Organic Analyses – Each sample was spiked with the surrogate compounds 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Toluene-d8 and Dibromofluoromethane. In-house surrogate recovery limits were reported by the laboratory. The percent recovery of each surrogate met QC criteria in each of the validated samples in this data set with the exception of 4-Bromofluorobenzene in sample SP-7. This sample was reanalyzed and comparable data was obtained. Target analytes in sample SP-7 have been qualified "UJ/J" estimated.

Qualified data result pages are located in Appendix B of this report.

Semivolatile Organic Analyses – Each sample was spiked with the surrogate compounds 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14. The percent recovery of each surrogate met QC criteria in each of the sample analyses in this data set.

### **4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:**

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

#### **Volatile Organic Analyses**

Sample SP-5 was utilized for the soil MS/MSD analysis. All Percent Recoveries and Relative Percent Differences met QC criteria in this MS/MSD sample set.

#### **Semivolatile Organic Analyses**

Sample Sp-5 was utilized for the MS/MSD analysis associated with this data set. All Percent Recoveries reported met QC criteria with the exception of N-nitrosodiphenylamine (178%), Benzo(b)fluoranthene(156%) and Benzo(k)fluoranthene (161%) in the MS sample. All recoveries met QC criteria in the MSD sample. All Relative Percent Differences met QC criteria in the MS/MSD sample set. No action was taken based on MS/MSD data alone.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **5. BLANK SPIKE ANALYSIS:**

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

#### **Volatile Organic Analytes**

The laboratory reported one (1) blank spike analysis with this data set. The blank spike sample was fortified with all reported analytes. A summary form listed the five (5) CLP compounds and percent recovery. The spike recoveries of the target analytes listed met QC criteria.

#### **Semivolatile Organic Analytes**

The laboratory performed one (1) aqueous blank spike analysis with this data set. The sample was spiked with all reported analytes. All spike recoveries in the aqueous blank spike sample met QC criteria.

The laboratory performed one (1) soil blank spike analysis with this data set. The sample was spiked with all reported analytes. All spike recoveries in the soil blank spike sample met QC criteria with the exception of N-nitrosodiphenylamine (153%). Based on the high recovery and the fact that this analyte was not detected in any of the field samples in this data set no action was taken.

### **6. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

#### **A) Method Blank contamination**

##### **Volatile Organic Analyses**

One (1) aqueous method blank is associated with this data set. It was free from contamination of all target analytes and non-target (TIC) compounds.

Three (3) soil method blank samples are associated with this data set. Each was free from contamination of all target analytes and non-target (TIC) compounds.

##### **Semivolatile Organic Analyses**

One (1) aqueous method blank sample is associated with this data set. It was free from contamination of all target analytes with the exception of Bis (2-ethylhexyl)phthalate (1.2 J ug/L). One (1) Aldol Condensation Product (ACP) at retention time 3.29 minutes was detected in this method blank sample. When detected in associated aqueous field samples, these method blank contaminants were negated.

Qualified data result pages are located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. BLANK CONTAMINATION (cont'd):**

#### **B) Field Blank contamination**

##### **Volatile Organic Analyses**

The Field Blank sample (FIELDBLANK) was free from contamination of all target analytes with the exception of Acetone (14 ug/L) and Methylene Chloride (4.3 J ug/L). The Field Blank sample was free from contamination of non-target analytes. When these target analytes were detected in associated field samples they were negated from the data result page.

Qualified data result pages are located in Appendix B of this report.

##### **Semivolatile Organic Analyses**

The Field Blank sample (FIELDBLANK) was free from contamination of all target and non-target analytes with the exception of Bis(2-ethylhexyl)phthalate (1.5 ug/L) and three (3) non-target/TIC analytes. An ACP at retention time 3.28, Hexadecanoic Acid at retention time 14.97 and one non-target analyte at retention time 16.30. When detected in associated field samples, these analytes were negated and qualified "U".

Qualified data result pages are located in Appendix B of this report.

#### **C) Trip Blank contamination**

##### **Volatile Organic Analyses**

The Trip Blank sample (TRIP BLANK) was free from contamination of all target and non-analytes.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **7. GC/MS CALIBRATION:**

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

#### **A) RESPONSE FACTOR**

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria is not met in an initial calibration the positive results are qualified "J". Non detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, effected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria is set for these analytes. If the minimum criteria is not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

#### **Volatile Organic Analyses**

Two (2) initial calibration curve analyses are associated with this data set. The laboratory performed an aqueous multi-level calibration curve on June 2, 2003 (Inst.I). The RRF for all target compounds met QC criteria in this initial calibration curve. The aqueous samples in this data set were analyzed within the same BFB tune as the initial calibration curve analysis.

The laboratory performed a soil multi-level calibration curve on June 2, 2003 (Inst.A). The RRF for all target compounds met QC criteria in this initial calibration curve.

Three (3) continuing calibration standards are associated with the curve analysis on Instrument A. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

#### **Semivolatile Organic Analyses**

One (1) initial calibration curve is associated with this data set. The laboratory performed an initial multi level calibration on May 17, 2003 (Inst. E). The RRF of all target compounds met QC criteria in this initial calibration curve.

Three (3) continuing calibration standards are associated with the curve analysis on Instrument E. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.



## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgement. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unuseable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

#### Volatile Organic Analyses

Two (2) initial calibration curves are associated with this data set. The laboratory performed the aqueous multi level calibration on June 2, 2003 (Inst.I). The %RSD for all target compounds met QC criteria in this initial calibration curve.

The laboratory performed the soil multi level calibration on June 2, 2003 (Inst.A). The %RSD for all target compounds met QC criteria in this initial calibration curve with the exception of Bromomethane (30.2%) and 2-Hexanone (30.1%). Bromomethane and 2-Hexanone have been qualified "UJ/J" estimated in the soil sample in this data set.

Three (3) continuing calibration standard analysis is associated with this data set. All % Difference criteria were met for all target analytes in each of the continuing calibration standard analyses with the exception of the following:

| Date   | File ID    | Analyte      | %Difference |
|--------|------------|--------------|-------------|
| 6/3/03 | VA060302.D | Chloroethane | 26.3        |
| 6/5/03 | VA060502.D | Chloroethane | 26.3        |

Chloroethane has been qualified "UJ/J" estimated in each of the effected soil samples in this data set.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

##### Semivolatile Organic Analyses

One (1) initial calibration curve analysis is associated with this data set. The laboratory performed an initial multi level calibration on May 17, 2003 (Inst. E). The %RSD criteria was met for all target compounds in the initial calibration curve with the exception of 2,4-Dinitrophenol (36.3%)

Three (3) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date   | File ID    | Analyte           | %Difference |
|--------|------------|-------------------|-------------|
| 6/3/03 | BE003155.D | 2,4-Dinitrophenol | 44.4        |
|        |            | 4-Nitrophenol     | 25.6        |
| 6/4/02 | BE003177.D | 2,4-Dinitrophenol | 28.6        |
|        |            | 4-Nitrophenol     | 27.6        |
|        |            | 2,4-Dinitrophenol | 57.7        |

These target analytes have been qualified "UJ/J" estimated in the samples associated with the continuing calibration standard.

Qualified data result pages are located in Appendix B of this report.

### 8. GC/MS MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). The tuning compound for semivolatile organic analyses is decafluorotriphenylphosphine (DFTPP). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

Volatile Organic Analyses/ Semivolatile Organic Analyses – All Instrument Tuning criteria was met for these sample analyses.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 9. GC/MS INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than  $\pm 30$  seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non-detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria are applied to all field and QC samples.

#### Volatile Organic Analyses

All samples were fortified with the internal standards Tert Butyl Alcohol-d9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. All internal standard area criteria were met for the validated samples in this data set with the exception of 1,4-Dichlorobenzene-d4 in the initial analysis of sample SP-7. The sample was reanalyzed and acceptable Internal Standard Area Counts were obtained.

#### Semivolatile Organic Analyses

The samples were fortified with the internal standards 1,4-Dichlorobenzene-d4, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d12 and Perylene-d12. All Internal Standard QC criteria were met for the samples in this data set with the exception of the following:

| Sample ID   | Internal Standard | Sample ID      | Internal Standard                    |
|-------------|-------------------|----------------|--------------------------------------|
| CP-1 (1:10) | Perylene-d12      | CP-1 (1:10) RE | Chrysene-d12<br>Perylene-d12         |
| SP-4        | Chrysene-d12      | SP-4 RE        | Chrysene-d12<br>Perylene-d12         |
| SP-6        | Chrysene-d12      | SP-6 RE        | Chrysene-d12<br>Perylene-d12         |
| DUP-1       | Perylene-d12      | DUP-1 RE       | Chrysene-d12<br>Perylene-d12         |
| SP-7        | Acenaphthene-d10  | SP-7 DL (1:5)  | Acenaphthene-d10<br>Phenanthrene-d10 |

Reanalysis of the sample extracts that indicated that matrix interference was confirmed. Target analytes associated with these Internal Standards have been qualified "UJ/J" estimated.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 10. COMPOUND IDENTIFICATION (cont'd)

Sample FIELDBLANK reported one non-target analyte with a "B" qualifier. This non-target analyte was not detected in the preparation blank associated with the Field Blank sample. This data validator has removed the "B" qualifier from the data result page.

Sample SP-7 was initially analyzed without dilution. The concentration of the target analytes Fluoranthene, bis(2-ethylhexyl)phthalate and Benzo(b)fluoranthene exceeded the calibration range of the GC/MS. The sample was reanalyzed using a 1:5 dilution factor. In addition, Internal standard area counts exceeded QC criteria. Dilution reanalysis confirmed the matrix interference exhibited in the initial sample chromatogram. The laboratory qualified the target analyte Bis(2-ethylhexyl)phthalate with a "B" qualifier to indicate blank contamination, however, the blank associated with this sample preparation did not contain this analyte. This data validator removed the "B" qualifier from the data result page. Bis(2-ethylhexyl)phthalate was not negated from this sample due to the high concentration detected. This concentration cannot be attributed to Field Blank/preparation blank contamination.

Qualified data result pages are located in Appendix B of this report.

### 11. FIELD DUPLICATE SAMPLE ANALYSIS

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples.

Sample CP-1 and sample DUP-1 are soil field duplicate samples. The Percent Solids between these two samples varies by greater than 100%. The laboratory was contacted to review the sample data for Percent Solids. The laboratory indicated that the samples did not have the same appearance. The variation in Percent Solids confirms this information. A copy of the laboratory response is included in Appendix D of this report. Below is a summary of positive results detected in the field duplicate samples. Target analytes were not detected in the Semivolatile Organic sample extract. The variance between sample results has been impacted based on the Percent Solids number associated with each sample bottle.

#### Sample ID: CP-1(R2673-01/DUP-1 (R2673-07)

| Analyte            | Concentration<br>(ug/kg) | Concentration<br>(ug/kg) | RPD<br>(%) |
|--------------------|--------------------------|--------------------------|------------|
| Total Solids       | 76%                      | 94%                      | >100       |
| Methylene Chloride | 3.1 J                    | ND                       | NC         |

NC denotes Not Calculated.

### 12. OVERALL ASSESSMENT:

Analytical QC criteria were met for these analyses. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package. All soil sample data was reported on a dry weight basis.

The data provided for this data set is acceptable for use, with the noted data qualifiers.

## NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** TAL Metals

**SITE:** Coral Graphics Site

**CONTRACT LAB:** Chemtech Consulting Group  
Mountainside, New Jersey

**REVIEWER:** Renee Cohen

**DATE REVIEW COMPLETED:** June, 2004

**MATRIX:** Aqueous and Non-Aqueous

This data assessment is for six (6) soil samples, one (1) Field Blank and one (1) Trip Blank sample as listed below. The samples were collected on May 29, 2003 and shipped via UPS to Chemtech Consulting Group, located in Mountainside, New Jersey. All samples, with the exception of the Trip Blank were analyzed for the TAL Metals group. The samples were received at the laboratory on May 30, 2003. A copy of the Chain of Custody documents is located in Appendix C of this report.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set. Appendix D of this report contains copies of correspondence between the data validator and the laboratory regarding this data set.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 10. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within  $\pm 0.06$  RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

#### Volatile Organic Analyses

The samples in this data set reported the VOA 8260 analytes specified on the COC documents. A Library Search was performed and reported with each of the samples in this data set. The laboratory reported the target analytes to the determined method detection limit. Soil sample results are reported on a dry weight basis. All of the samples were analyzed and reported without dilution.

#### Semivolatile Organic Analyses

The laboratory reported the Semivolatile target analytes to the determined method detection limit. A Library Search was performed and reported with all samples in this data set. The validated samples were analyzed and reported without dilution except where noted below.

The re-analysis data of sample CP-1 RE and DUP-1 RE were initially reported by the laboratory using aqueous units. The laboratory replaced the result pages with results reported in the correct soil units. These revised pages are enclosed in both Appendix B and D of this report.

Sample CP-1 and the reanalysis of sample CP-1 were analyzed at a 1:10 dilution. The sample chromatogram exhibited a small hump, however, no target analytes were detected. The sample was reanalyzed due to Internal Standard Area Counts that exceeded QC criteria. Comparable data was obtained in the sample reanalysis.

Sample SP-4 was analyzed without dilution, however, due to the recovery of the internal standard Chrysene-d12, the sample was reanalyzed and reported herein. The reanalysis confirmed the matrix interference in this sample. The laboratory qualified the target analyte Bis(2-ethylhexyl)phthalate with a "B" qualifier to indicate blank contamination, however, the blank associated with this sample preparation did not contain this analyte. This data validator removed the "B" qualifier from the data result page.

The Internal Standard area counts of Perylene-d12 exceeded QC criteria in sample SP-5 MS and SP-5 MSD sample. All Internal Standard area counts met QC criteria in the initial sample analysis. Data was not qualified based on this outlier. The laboratory qualified the target analyte Bis(2-ethylhexyl)phthalate with a "B" qualifier to indicate blank contamination, however, the blank associated with this sample preparation did not contain this analyte. This data validator removed the "B" qualifier from the data result page.

Sample DUP-1 and the reanalysis of sample DUP-1 were analyzed at a 1:10 dilution. The sample chromatogram exhibited a small hump, however, no target analytes were detected. The sample was reanalyzed due to Internal Standard Area Counts that exceeded QC criteria. Comparable data was obtained in the sample reanalysis.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. HOLDING TIME**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

All sample analyses associated with Project ID: R2673 were prepared/digested and analyzed within the proper holding time.

### **2. CALIBRATION ANALYSIS**

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The aqueous Field Bank sample was analyzed in one analytical sequence June 3, 2003. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria. The laboratory

The soil samples in this data set were analyzed in one analytical sequence June 6, 2003. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria. The laboratory re-analyzed sample CP-1 and SP-4 at dilution due to the concentration of target analytes detected. The Form 14 that was in the initial data report did not identify the analytes reported from the dilution analysis. The laboratory was contacted and revised form 14's were provided for the data report. A copy of the correspondence associated with this issues is locate din Appendix D of this report.

Analysis for Cold Vapor Mercury is calibrated using multi point standards and calculating the correlation coefficient of the curve. One of the calibrations standards must be analyzed at the CRDL. The soil Mercury analyses associated with this data set was performed on June 5, 2003. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

The aqueous Mercury analyses associated with this data set was performed on June 4, 2003. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **3. CRDL STANDARD**

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

All ICP CRDL standards associated with this data set met QC criteria with the exception of Arsenic (120.2%), Lead (124.0%) and Thallium (122.0%) in the standard analyzed June 3, 2003-13:41. This ICP sequence is associated with the Field Blank sample analysis. These target analyte were not detected in the Field Blank sample, therefore, no action was taken. The CRDL standard analyzed on June 6, 2004-9:44 met QC criteria for all analytes except Lead (121.7%). This ICP sequence is associated with the soil sample analyses. Lead was detected in each of the soil samples in this data set and qualified "J" estimated.

Qualified data result pages are located in Appendix B of this report.

### **4. INTERFERENCE CHECK STANDARD**

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferents metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

### **5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSIS**

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-150%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. USEPA Region II criteria states that if the matrix spike recovery is greater than 150%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

Soil sample MS/MSD analysis was performed on sample SP-5. All percent recoveries met QC criteria in the MS/MSD sample set met QC criteria with the exception of Aluminum (356%/353.40%), Calcium (246.4%/245.1%), Zinc (165.8%/165.5%) and Mercury (124.5%/125.8%). The soil samples associated with MS/MSD sample set have been qualified "J/UJ" estimated for each of these target analytes with the exception of Aluminum and Calcium. Aluminum and Calcium have been qualified "J" estimated, bias high. The results were not qualified "R" in this data set because USEPA Region II criteria were not used.

Qualified data result pages are located in Appendix B of this report.



## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. POST DIGESTION SPIKE ANALYSIS**

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Chemtech Consulting Group did not perform post digestion spike analysis with this data set.

### **7. DUPLICATE SAMPLE ANALYSIS**

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Duplicate sample analysis was performed on sample SP-5. All duplicate analyte RPD's met QC criteria in this sample.

### **8. ICP SERIAL DILUTION**

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Sample SP-5 was utilized for the serial dilution analysis. All serial dilution results met QC criteria in this sample analysis with the exception of Zinc (12.7%). All other results were not significantly high enough.

Qualified data result pages are located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **9. BLANKS**

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

ICP Metals – The soil samples in this data set were prepared in one (1) batch on 6/2/03. This method blank was free from contamination of target analytes above the CRDL. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 6/3/03. This method blank was free from contamination of target analytes above the CRDL.

Mercury Analyses - The soil samples in this data set were prepared in one (1) batch on 6/4/03. This method blank was free from contamination. The aqueous Field Blank sample in this data set was prepared in one (1) batch on 6/3/03. This method blank was free from contamination.

One (1) Field Blank sample (R2673-08) is associated with this data set. The Field Blank sample was free from contamination of all target analytes.

### **10. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)**

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine if data should be qualified or rejected.

Chemtech prepared and analyzed an aqueous and soil LCS sample with each digestion batch associated with this data set. Recovery limits of 80%-120% were utilized for review of the aqueous LCS sample. Commercial recovery limits were listed with the soil LCS summary page. All LCS recoveries met QC limits.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **11. INSTRUMENT QC DATA**

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech Consulting Group performed the required studies specified by the method.

### **12. COMPOUND IDENTIFICATION**

The soil samples in this data set were reported on a dry weight basis. The laboratory did not include a copy of the Percent Solids worksheet with the Percent Solids data. The laboratory was contacted and the worksheet was provided for review. A copy of the correspondence associated with this issue is located in Appendix D of this report.

Sample CP-1 was initially reported from the initial analysis without dilution. The results of Copper, Iron and Zinc exceeded the linear range of the ICP. The sample was reanalyzed using a 1:20 dilution analysis. The lab data result of Copper was not reported from the 1:20 analysis, but the initial analysis. The laboratory was contacted regarding this data result as well as the detection limit reported on the data result form. The laboratory reissued the data result page and reported Copper from the 1:20 dilution analysis. In addition the Analysis Run Log (Form 14) did not indicate which analysis Copper was reported from. The laboratory reissued the Analysis Run Log (Form 14) of the data report. A copy of the correspondence and laboratory response is located in Appendix D of this report. Qualifications added to this sample have been added to the revised data result page.

Sample SP-4 was initially analyzed without dilution. The concentration of Copper, Iron and Zinc exceeded the linear range of the ICP. The sample was reanalyzed and reported from a 1:20 dilution analysis. These analytes were reported from the 1:20 analysis.

The sample data results of Aluminum, Calcium and Zinc in this data set have been qualified "J" estimated due to the percent recovery of the analyte in the MS and MSD sample. The results of these target analytes were above the CRDL and should be considered estimated "J" with high bias.

Qualified data result pages are located in Appendix B of this report.

**DATA USABILITY SUMMARY REPORT (DUSR)  
CORAL GRAPHICS SITE**

**13. FIELD DUPLICATE SAMPLE ANALYSIS**

Field duplicate samples are collected and analyzed as an indication of overall precision of field sample collection. These results are expected to have more variability than laboratory duplicate samples. Analytes reported above the method detection limit are listed. Data was not qualified based on field duplicate sample analyses. Review of the results and the Percent Solids between the field duplicate samples indicated that duplicate precision was in question. The laboratory was contacted regarding the result differences. The laboratory indicated that the samples did not have the same appearance. Comparison and qualification of field duplicate data was not performed with this data set.

Sample CP-1 and DUP -1 are field duplicate samples. Below is a summary of the field duplicate sample results.

| Analyte   | Result<br>(mg/kg) | Result<br>(mg/kg) |
|-----------|-------------------|-------------------|
| Aluminum  | 10800             | 4590              |
| Antimony  | 22.7              | 0.24 U            |
| Arsenic   | 323               | 3.6               |
| Barium    | 158               | 13.0 J            |
| Beryllium | 0.53 J            | 0.17 J            |
| Cadmium   | 7.2               | 0.14 J            |
| Calcium   | 13700             | 8250              |
| Chromium  | 58.4              | 5.1               |
| Cobalt    | 206               | 2.5               |
| Copper    | 4610              | 8.0               |
| Iron      | 211000            | 5700              |
| Lead      | 831               | 13.2              |
| Magnesium | 4360              | 4900              |
| Manganese | 468               | 110               |
| Mercury   | 0.04              | 0.04              |
| Nickel    | 28.8              | 4.7               |
| Potassium | 3050              | 229 J             |
| Selenium  | 2.9               | 0.91              |
| Silver    | 2.3               | 0.39 U            |
| Sodium    | 2440              | 147               |
| Thallium  | 5.2               | 0.61 U            |
| Vanadium  | 17.0              | 10.1              |
| Zinc      | 9700              | 42.6              |

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **14. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT**

This data set included the analysis of six (6) soil samples and one (1) Field Blank sample. The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. A description of the qualifiers and decision for them is detailed in the above report. Any data issues were addressed with the laboratory and a response was received. A copy of any correspondence associated with this data is located in appendix D of this report. Soil sample data results are reported in a dry weight basis.

The data associated with this data set is acceptable for use with the noted data qualifiers. Details of the data qualification added to the analyte are located in the above text.

# Premier Environmental Services

## TABLE 1

# Premier Environmental Services

## CLIENT SAMPLE ID

## LABORATORY SAMPLE ID

|             |          |
|-------------|----------|
| CP-1        | R2673-01 |
| SP-4        | R2673-02 |
| SP-5        | R2673-03 |
| SP-6        | R2673-04 |
| SP-5 MS     | R2673-05 |
| SP-5 MSD    | R2673-06 |
| DUP-1       | R2673-07 |
| FIELD BLANK | R2673-08 |
| TRIP BLANK  | R2673-09 |
| SP-8        | R2673-10 |

# *Premier Environmental Services*

## **APPENDIX A**



# Premier Environmental Services

## DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected, and the reported quantitation limit is probably higher than reported.

# Premier Environmental Services

## APPENDIX B

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-01

Client ID: CP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060314.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 24

| Parameter                | CAS Number  | Concentration | C | RDL | MDL | Units |
|--------------------------|-------------|---------------|---|-----|-----|-------|
| <b>PARAMETERS</b>        |             |               |   |     |     |       |
| Chloromethane            | 74-87-3     | < 2.2         | U | 6.6 | 2.2 | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| Bromomethane             | 74-83-9     | < 1.3 UJ      | U | 6.6 | 1.3 | ug/Kg |
| Chloroethane             | 75-00-3     | < 1.7 UJ      | U | 6.6 | 1.7 | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| Petone                   | 67-64-1     | < 4.6         | U | 6.6 | 4.6 | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 1.7         | U | 6.6 | 1.7 | ug/Kg |
| Ethylene Chloride        | 75-09-2     | < 1.7         | U | 6.6 | 1.7 | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | < 1.2         | U | 6.6 | 1.2 | ug/Kg |
| Butanone                 | 78-93-3     | < 6.6         | U | 6.6 | 6.6 | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 2.8         | U | 6.6 | 2.8 | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 1.2         | U | 6.6 | 1.2 | ug/Kg |
| Chloroform               | 67-66-3     | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| Benzene                  | 71-43-2     | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| 1,2-Dichloroethane       | 107-06-2    | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| Trichloroethene          | 79-01-6     | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| 2,2-Dichloropropane      | 78-87-5     | < 1.1         | U | 6.6 | 1.1 | ug/Kg |
| Dimodichloromethane      | 75-27-4     | < 1.1         | U | 6.6 | 1.1 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 5.3         | U | 6.6 | 5.3 | ug/Kg |
| Toluene                  | 108-88-3    | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| 1,3-Dichloropropene      | 10061-02-6  | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 1.2         | U | 6.6 | 1.2 | ug/Kg |
| 1,2-Trichloroethane      | 79-00-5     | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| Hexanone                 | 591-78-6    | < 6.6 UJ      | U | 6.6 | 6.6 | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 1.2         | U | 6.6 | 1.2 | ug/Kg |
| Trachloroethene          | 127-18-4    | < 1.6         | U | 6.6 | 1.6 | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| Phenyl Benzene           | 100-41-4    | < 1.3         | U | 6.6 | 1.3 | ug/Kg |
| p-Xylenes                | 136777-61-2 | < 3.7         | U | 6.6 | 3.7 | ug/Kg |
| m-Xylene                 | 95-47-6     | < 1.4         | U | 6.6 | 1.4 | ug/Kg |
| Styrene                  | 100-42-5    | < 1.8         | U | 6.6 | 1.8 | ug/Kg |
| Bromoform                | 75-25-2     | < 1.4         | U | 6.6 | 1.4 | ug/Kg |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-01

Client ID: CP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060314.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 24

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2,2-tetrachloroethane | 79-54-5    | < 1.5         | 0     | 6.0      | 1.5 | ug/Kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 43.15         | 86 %  | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane        | 1868-53-7  | 60.07         | 120 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 53.05         | 106 % | 81 - 117 |     | SPK: 50 |
| Bromofluorobenzene        | 460-00-4   | 42.75         | 86 %  | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 4780572       | 6.09  |          |     |         |
| 1,2-Difluorobenzene       | 540-36-3   | 4933989       | 7.86  |          |     |         |
| Chlorobenzene-d5          | 3114-55-4  | 4150054       | 14.07 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 2369461       | 19.59 |          |     |         |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-02

Client ID: SP-4

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060315.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 2

| Parameter                  | CAS Number  | Concentration   | C | RDL | MDL  | Units |
|----------------------------|-------------|-----------------|---|-----|------|-------|
| <b>TARGETS</b>             |             |                 |   |     |      |       |
| Chloromethane              | 74-87-3     | < 1.7           | U | 5.1 | 1.7  | ug/Kg |
| Methyl chloride            | 75-01-4     | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| Bromomethane               | 74-83-9     | < 1.0 <i>UJ</i> | U | 5.1 | 1.0  | ug/Kg |
| Chloroethane               | 75-00-3     | < 1.3 <i>UJ</i> | U | 5.1 | 1.3  | ug/Kg |
| 1,1-Dichloroethene         | 75-35-4     | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| Acetone                    | 67-64-1     | < 3.6           | U | 5.1 | 3.6  | ug/Kg |
| Carbon disulfide           | 75-15-0     | < 1.3           | U | 5.1 | 1.3  | ug/Kg |
| Ethylene Chloride          | 75-09-2     | < 1.3           | U | 5.1 | 1.3  | ug/Kg |
| trans-1,2-Dichloroethene   | 156-60-5    | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| 1,1-Dichloroethane         | 75-34-3     | < 0.92          | U | 5.1 | 0.92 | ug/Kg |
| Butanone                   | 78-93-3     | < 5.1           | U | 5.1 | 5.1  | ug/Kg |
| Carbon Tetrachloride       | 56-23-5     | < 2.1           | U | 5.1 | 2.1  | ug/Kg |
| cis-1,2-Dichloroethene     | 156-59-2    | < 0.92          | U | 5.1 | 0.92 | ug/Kg |
| Chloroform                 | 67-66-3     | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| 1,1,1-Trichloroethane      | 71-55-6     | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| Benzene                    | 71-43-2     | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| 1,1-Dichloroethane         | 107-06-2    | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| Trichloroethene            | 79-01-6     | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| 1,1-Dichloropropane        | 78-87-5     | < 0.82          | U | 5.1 | 0.82 | ug/Kg |
| 1,1-Dibromodichloromethane | 75-27-4     | < 0.82          | U | 5.1 | 0.82 | ug/Kg |
| 4-Methyl-2-Pentanone       | 108-10-1    | < 4.1           | U | 5.1 | 4.1  | ug/Kg |
| Styrene                    | 108-88-3    | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| 1,3-Dichloropropene        | 10061-02-6  | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| cis-1,3-Dichloropropene    | 10061-01-5  | < 0.92          | U | 5.1 | 0.92 | ug/Kg |
| 1,1,2-Trichloroethane      | 79-00-5     | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| 2-Hexanone                 | 591-78-6    | < 5.1 <i>UJ</i> | U | 5.1 | 5.1  | ug/Kg |
| 1,1-Dibromochloromethane   | 124-48-1    | < 0.92          | U | 5.1 | 0.92 | ug/Kg |
| 1,1-Dibromochloroethene    | 127-18-4    | < 1.2           | U | 5.1 | 1.2  | ug/Kg |
| Chlorobenzene              | 108-90-7    | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| Methyl Benzene             | 100-41-4    | < 1.0           | U | 5.1 | 1.0  | ug/Kg |
| p-Xylenes                  | 136777-61-2 | < 2.9           | U | 5.1 | 2.9  | ug/Kg |
| o-Xylene                   | 95-47-6     | < 1.1           | U | 5.1 | 1.1  | ug/Kg |
| m-Xylene                   | 100-42-5    | < 1.4           | U | 5.1 | 1.4  | ug/Kg |
| Bromoform                  | 75-25-2     | < 1.1           | U | 5.1 | 1.1  | ug/Kg |

Volatiles

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |           |
|--------------------|--------------|--------------------|-----------|
| Sample ID:         | R2673-02     | Client ID:         | SP-4      |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03   |
| Date Analyzed:     | 6/3/03       | Matrix:            | SOIL      |
| File ID:           | VA060315.D   | Analytical Run ID: | VA060203  |
| Dilution:          | 1            | Instrument ID:     | MSVOAA    |
| Analytical Method: | 8260         | Associated Blank:  | VBA0603S1 |
| Sample Wt/Wol:     | 5.0 Units: g | Soil Extract Vol:  |           |
| Soil Aliquot Vol:  |              | % Moisture:        | 2         |

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2,2-tetrachloroethane | 79-54-5    | < 1.0         | 0     | 5.1      | 1.0 | ug/kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 46.69         | 93 %  | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane        | 1868-53-7  | 52.94         | 106 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 45.78         | 92 %  | 81 - 117 |     | SPK: 50 |
| Bromofluorobenzene        | 460-00-4   | 40.31         | 81 %  | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 4975416       | 6.09  |          |     |         |
| 1,2-Difluorobenzene       | 540-36-3   | 5547782       | 7.86  |          |     |         |
| 1,3-Difluorobenzene       | 3114-55-4  | 4343653       | 14.09 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 2715484       | 19.59 |          |     |         |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-03

Client ID: SP-5

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060316.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 16

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| RGETS                     |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 2.0         | U | 6.0 | 2.0  | ug/Kg |
| Methyl chloride           | 75-01-4     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Dimethylmethane           | 74-83-9     | < 1.2 UJ      | U | 6.0 | 1.2  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.5 UJ      | U | 6.0 | 1.5  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Acetone                   | 67-64-1     | < 4.2         | U | 6.0 | 4.2  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.5         | U | 6.0 | 1.5  | ug/Kg |
| 1,1,2,2-Tetrachloroethane | 75-09-2     | < 1.5         | U | 6.0 | 1.5  | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| 1,1-Dichloroethane        | 75-34-3     | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| Butanone                  | 78-93-3     | < 6.0         | U | 6.0 | 6.0  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.5         | U | 6.0 | 2.5  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| Chloroform                | 67-66-3     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| 1,1-Dichloroethane        | 107-06-2    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Trichloroethene           | 79-01-6     | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| 1,1-Dichloropropane       | 78-87-5     | < 0.95        | U | 6.0 | 0.95 | ug/Kg |
| 1,1-Dimodichloromethane   | 75-27-4     | < 0.95        | U | 6.0 | 0.95 | ug/Kg |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 4.8         | U | 6.0 | 4.8  | ug/Kg |
| Styrene                   | 108-88-3    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| trans-1,3-Dichloropropene | 10061-02-6  | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| cis-1,3-Dichloropropene   | 10061-01-5  | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| 1,2-Trichloroethane       | 79-00-5     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| 2-Hexanone                | 591-78-6    | < 6.0 UJ      | U | 6.0 | 6.0  | ug/Kg |
| Bromochloromethane        | 124-48-1    | < 1.1         | U | 6.0 | 1.1  | ug/Kg |
| 1,1,2-Trichloroethene     | 127-18-4    | < 1.4         | U | 6.0 | 1.4  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| Methyl Benzene            | 100-41-4    | < 1.2         | U | 6.0 | 1.2  | ug/Kg |
| m-Xylenes                 | 136777-61-2 | < 3.3         | U | 6.0 | 3.3  | ug/Kg |
| p-Xylene                  | 95-47-6     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |
| o-Xylene                  | 100-42-5    | < 1.7         | U | 6.0 | 1.7  | ug/Kg |
| Formoform                 | 75-25-2     | < 1.3         | U | 6.0 | 1.3  | ug/Kg |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-03

Client ID: SP-5

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060316.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 16

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2-Tetrachloroethane   | 79-54-5    | < 1.2         | 0     | 6.0      | 1.2 | ug/kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 43.58         | 87 %  | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane        | 1868-53-7  | 52.84         | 106 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 51.54         | 103 % | 81 - 117 |     | SPK: 50 |
| Bromofluorobenzene        | 460-00-4   | 44.88         | 90 %  | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 4502404       | 6.09  |          |     |         |
| 1,2-Difluorobenzene       | 540-36-3   | 4697937       | 7.86  |          |     |         |
| 1,3-Difluorobenzene-d5    | 3114-55-4  | 4035800       | 14.07 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 2496117       | 19.56 |          |     |         |



## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-04

Client ID: SP-6

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060317.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 2

| Parameter                | CAS Number  | Concentration | C | RDL | MDL  | Units |
|--------------------------|-------------|---------------|---|-----|------|-------|
| <b>RGETS</b>             |             |               |   |     |      |       |
| Chloromethane            | 74-87-3     | < 1.7         | U | 5.1 | 1.7  | ug/Kg |
| Vinyl chloride           | 75-01-4     | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| 1,1-Dichloromethane      | 74-83-9     | < 1.0 UJ      | U | 5.1 | 1.0  | ug/Kg |
| Chloroethane             | 75-00-3     | < 1.3 UJ      | U | 5.1 | 1.3  | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| Acetone                  | 67-64-1     | < 3.6         | U | 5.1 | 3.6  | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 1.3         | U | 5.1 | 1.3  | ug/Kg |
| Methylene Chloride       | 75-09-2     | < 1.3         | U | 5.1 | 1.3  | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | < 0.92        | U | 5.1 | 0.92 | ug/Kg |
| 2-Butanone               | 78-93-3     | < 5.1         | U | 5.1 | 5.1  | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 2.1         | U | 5.1 | 2.1  | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 0.92        | U | 5.1 | 0.92 | ug/Kg |
| Chloroform               | 67-66-3     | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| Benzene                  | 71-43-2     | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| 1,1-Dichloroethane       | 107-06-2    | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| Trichloroethene          | 79-01-6     | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| 1,2-Dichloropropane      | 78-87-5     | < 0.82        | U | 5.1 | 0.82 | ug/Kg |
| 1,1-Dichloromethane      | 75-27-4     | < 0.82        | U | 5.1 | 0.82 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 4.1         | U | 5.1 | 4.1  | ug/Kg |
| 1-Pentene                | 108-88-3    | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| 3-Dichloropropene        | 10061-02-6  | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 0.92        | U | 5.1 | 0.92 | ug/Kg |
| 1,2-Dichloroethane       | 79-00-5     | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| 2-Hexanone               | 591-78-6    | < 5.1 UJ      | U | 5.1 | 5.1  | ug/Kg |
| Dibromochloromethane     | 124-48-1    | < 0.92        | U | 5.1 | 0.92 | ug/Kg |
| 1,2-Dichloroethene       | 127-18-4    | < 1.2         | U | 5.1 | 1.2  | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| 1,4-Dichlorobenzene      | 100-41-4    | < 1.0         | U | 5.1 | 1.0  | ug/Kg |
| m-Xylenes                | 136777-61-2 | < 2.9         | U | 5.1 | 2.9  | ug/Kg |
| p-Xylene                 | 95-47-6     | < 1.1         | U | 5.1 | 1.1  | ug/Kg |
| 1,3-Dichlorobenzene      | 100-42-5    | < 1.4         | U | 5.1 | 1.4  | ug/Kg |
| 1,1-Dichloroethane       | 75-25-2     | < 1.1         | U | 5.1 | 1.1  | ug/Kg |

Volatiles

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-04

Client ID: SP-6

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

File ID: VA060317.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0603S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 2

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|---------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2-trichloroethane     | 79-54-5    | < 1.0         | 0     | 5.1      | 1.0 | ug/kg   |
| <b>SURROGATES</b>         |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4     | 17060-07-0 | 50.35         | 101 % | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane        | 1868-53-7  | 58.81         | 118 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 52.65         | 105 % | 81 - 117 |     | SPK: 50 |
| Bromofluorobenzene        | 460-00-4   | 45.44         | 91 %  | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |         |
| Pentafluorobenzene        | 363-72-4   | 4574126       | 6.09  |          |     |         |
| 1,2-Difluorobenzene       | 540-36-3   | 4699085       | 7.86  |          |     |         |
| 1,3-Difluorobenzene-d5    | 3114-55-4  | 4116012       | 14.07 |          |     |         |
| 1,4-Dichlorobenzene-d4    | 3855-82-1  | 2472052       | 19.56 |          |     |         |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-07

Client ID: DUP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

File ID: VA060408.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0604S1

Sample Wt/Vol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 6

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>RESULTS</b>            |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 1.8         | U | 5.3 | 1.8  | ug/Kg |
| Ethyl chloride            | 75-01-4     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Bromomethane              | 74-83-9     | < 1.1 U J     | U | 5.3 | 1.1  | ug/Kg |
| Chloroethane              | 75-00-3     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Acetone                   | 67-64-1     | < 3.7         | U | 5.3 | 3.7  | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 1.4         | U | 5.3 | 1.4  | ug/Kg |
| 1,1,1-Trichloroethane     | 75-09-2     | 3.1 U         | ✓ | 5.3 | 1.4  | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 1,1-Dichloroethane        | 75-34-3     | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| Butanone                  | 78-93-3     | < 5.3         | U | 5.3 | 5.3  | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 2.2         | U | 5.3 | 2.2  | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| Benzene                   | 71-43-2     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,2-Dichloroethane        | 107-06-2    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Trichloroethene           | 79-01-6     | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| 1,2-Dichloropropane       | 78-87-5     | < 0.85        | U | 5.3 | 0.85 | ug/Kg |
| 1,1-Dichloromethane       | 75-27-4     | < 0.85        | U | 5.3 | 0.85 | ug/Kg |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 4.3         | U | 5.3 | 4.3  | ug/Kg |
| 2-Pentene                 | 108-88-3    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| trans-2,3-Dichloropropene | 10061-02-6  | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| cis-1,3-Dichloropropene   | 10061-01-5  | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| 1,1,2-Trichloroethane     | 79-00-5     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| 2-Hexanone                | 591-78-6    | < 5.3 U J     | U | 5.3 | 5.3  | ug/Kg |
| Bromochloromethane        | 124-48-1    | < 0.96        | U | 5.3 | 0.96 | ug/Kg |
| 1,2-Dichloroethane        | 127-18-4    | < 1.3         | U | 5.3 | 1.3  | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Ethyl Benzene             | 100-41-4    | < 1.1         | U | 5.3 | 1.1  | ug/Kg |
| m-Xylenes                 | 136777-61-2 | < 3.0         | U | 5.3 | 3.0  | ug/Kg |
| p-Xylene                  | 95-47-6     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |
| Styrene                   | 100-42-5    | < 1.5         | U | 5.3 | 1.5  | ug/Kg |
| Formoform                 | 75-25-2     | < 1.2         | U | 5.3 | 1.2  | ug/Kg |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-07

Client ID: DUP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

File ID: VA060408.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0604S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 6

| Parameter               | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|-------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2-Tetrachloroethane | 79-54-5    | < 1.1         | 0     | 5.5      | 1.1 | ug/kg   |
| SURROGATES              |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4   | 17060-07-0 | 48.15         | 96 %  | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane      | 1868-53-7  | 53.76         | 108 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8              | 2037-26-5  | 46.67         | 93 %  | 81 - 117 |     | SPK: 50 |
| 4-Bromofluorobenzene    | 460-00-4   | 37.96         | 76 %  | 74 - 121 |     | SPK: 50 |
| INTERNAL STANDARDS      |            |               |       |          |     |         |
| Pentafluorobenzene      | 363-72-4   | 4792865       | 6.09  |          |     |         |
| 1,2-Difluorobenzene     | 540-36-3   | 5476106       | 7.86  |          |     |         |
| 1,3-Difluorobenzene-d5  | 3114-55-4  | 3850172       | 14.09 |          |     |         |
| 1,4-Dichlorobenzene-d4  | 3855-82-1  | 2020994       | 19.59 |          |     |         |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-10

Client ID: SP-7

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

File ID: VA060409.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0604S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 46

| Parameter                | CAS Number  | Concentration | C | RDL | MDL | Units |
|--------------------------|-------------|---------------|---|-----|-----|-------|
| PARAMETERS               |             |               |   |     |     |       |
| Chloromethane            | 74-87-3     | < 3.1 U J     | U | 9.3 | 3.1 | ug/Kg |
| Methyl chloride          | 75-01-4     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| Bromomethane             | 74-83-9     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| Chloroethane             | 75-00-3     | < 2.4         | U | 9.3 | 2.4 | ug/Kg |
| 1,1-Dichloroethene       | 75-35-4     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| Acetone                  | 67-64-1     | 28 U J        |   | 9.3 | 6.5 | ug/Kg |
| Carbon disulfide         | 75-15-0     | < 2.4 U J     | U | 9.3 | 2.4 | ug/Kg |
| 1,1,1-Trichloroethane    | 75-09-2     | 6.1 U         | J | 9.3 | 2.4 | ug/Kg |
| trans-1,2-Dichloroethene | 156-60-5    | < 2.0 U J     | U | 9.3 | 2.0 | ug/Kg |
| 1,1-Dichloroethane       | 75-34-3     | < 1.7 U J     | U | 9.3 | 1.7 | ug/Kg |
| Butanone                 | 78-93-3     | 16 J          |   | 9.3 | 9.3 | ug/Kg |
| Carbon Tetrachloride     | 56-23-5     | < 3.9 U J     | U | 9.3 | 3.9 | ug/Kg |
| cis-1,2-Dichloroethene   | 156-59-2    | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| Chloroform               | 67-66-3     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,1,1-Trichloroethane    | 71-55-6     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| Benzene                  | 71-43-2     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,1-Dichloroethane       | 107-06-2    | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| Trichloroethene          | 79-01-6     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,1-Dichloropropane      | 78-87-5     | < 1.5         | U | 9.3 | 1.5 | ug/Kg |
| 1,1-Dichloromethane      | 75-27-4     | < 1.5         | U | 9.3 | 1.5 | ug/Kg |
| 4-Methyl-2-Pentanone     | 108-10-1    | < 7.4         | U | 9.3 | 7.4 | ug/Kg |
| 1,2-Dichloroethane       | 108-88-3    | 10 J          |   | 9.3 | 2.0 | ug/Kg |
| 3-Dichloropropene        | 10061-02-6  | < 1.9 U J     | U | 9.3 | 1.9 | ug/Kg |
| cis-1,3-Dichloropropene  | 10061-01-5  | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| 1,2-Dichloroethane       | 79-00-5     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| Hexanone                 | 591-78-6    | < 9.3         | U | 9.3 | 9.3 | ug/Kg |
| Bromochloromethane       | 124-48-1    | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| Tetrachloroethene        | 127-18-4    | < 2.2         | U | 9.3 | 2.2 | ug/Kg |
| Chlorobenzene            | 108-90-7    | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| Methyl Benzene           | 100-41-4    | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| m-Xylenes                | 136777-61-2 | < 5.2         | U | 9.3 | 5.2 | ug/Kg |
| p-Xylene                 | 95-47-6     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| o-Xylene                 | 100-42-5    | < 2.6         | U | 9.3 | 2.6 | ug/Kg |
| Formaldehyde             | 75-25-2     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |

Volatiles

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10

Client ID: SP-7

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

File ID: VA060409.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0604S1

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 46

| Parameter                   | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|-----------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2-Tetrachloroethane     | 79-54-5    | 1.9           | 0     | 9.5      | 1.9 | ug/Kg   |
| <b>SURROGATES</b>           |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4       | 17060-07-0 | 49.57         | 99 %  | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane          | 1868-53-7  | 57.84         | 116 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                  | 2037-26-5  | 47.91         | 96 %  | 81 - 117 |     | SPK: 50 |
| Bromofluorobenzene          | 460-00-4   | 27.41         | 55 %  | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b>   |            |               |       |          |     |         |
| Pentafluorobenzene          | 363-72-4   | 3377901       | 6.11  |          |     |         |
| 1,2-Difluorobenzene         | 540-36-3   | 3720371       | 7.86  |          |     |         |
| Chlorobenzene-d5            | 3114-55-4  | 2437715       | 14.07 |          |     |         |
| 1,4-Dichlorobenzene-d4      | 3855-82-1  | 784178        | 19.59 |          |     |         |
| <b>IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |         |
| Benzene, 1-ethyl-2-methyl-  | 611143     | 15            | J     | 17.67    |     | ug/Kg   |

## Volatiles

SDG No.: R2673

**Client:** Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10RE

Client ID: SP-7RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/5/03

Matrix: SOIL

File ID: VA060506.D

Analytical Run ID: VA060203

Dilution:  $\frac{1}{1}$

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA0605S2

Sample Wt/Wol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol: \_\_\_\_\_

% Moisture: 46

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL | Units |
|---------------------------|-------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>            |             |               |   |     |     |       |
| Chloromethane             | 74-87-3     | < 3.1 UJ      | U | 9.3 | 3.1 | ug/Kg |
| Vinyl chloride            | 75-01-4     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| Fluoromethane             | 74-83-9     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| Chloroethane              | 75-00-3     | < 2.4         | U | 9.3 | 2.4 | ug/Kg |
| 1,1-Dichloroethene        | 75-35-4     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| Acetone                   | 67-64-1     | 26 UJ         |   | 9.3 | 6.5 | ug/Kg |
| Carbon disulfide          | 75-15-0     | < 2.4 UJ      | U | 9.3 | 2.4 | ug/Kg |
| Nitroethylene Chloride    | 75-09-2     | < 2.4         | U | 9.3 | 2.4 | ug/Kg |
| trans-1,2-Dichloroethene  | 156-60-5    | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| 1,1-Dichloroethane        | 75-34-3     | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| 2-Pentanone               | 78-93-3     | < 9.3         | U | 9.3 | 9.3 | ug/Kg |
| Carbon Tetrachloride      | 56-23-5     | < 3.9         | U | 9.3 | 3.9 | ug/Kg |
| cis-1,2-Dichloroethene    | 156-59-2    | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| Chloroform                | 67-66-3     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,1,1-Trichloroethane     | 71-55-6     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| Benzene                   | 71-43-2     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,1-Dichloroethane        | 107-06-2    | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| Trichloroethene           | 79-01-6     | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,1-Dichloropropane       | 78-87-5     | < 1.5         | U | 9.3 | 1.5 | ug/Kg |
| 1,1-Dichloroethane        | 75-27-4     | < 1.5         | U | 9.3 | 1.5 | ug/Kg |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 7.4         | U | 9.3 | 7.4 | ug/Kg |
| Toluene                   | 108-88-3    | 7.7 J         | J | 9.3 | 2.0 | ug/Kg |
| trans-1,3-Dichloropropene | 10061-02-6  | < 1.9 UJ      | U | 9.3 | 1.9 | ug/Kg |
| cis-1,3-Dichloropropene   | 10061-01-5  | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| 1,1,2-Trichloroethane     | 79-00-5     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| 2-Hexanone                | 591-78-6    | < 9.3         | U | 9.3 | 9.3 | ug/Kg |
| Bromochloromethane        | 124-48-1    | < 1.7         | U | 9.3 | 1.7 | ug/Kg |
| 1,1,2-Trichloroethene     | 127-18-4    | < 2.2         | U | 9.3 | 2.2 | ug/Kg |
| Chlorobenzene             | 108-90-7    | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| 1,2-Dichlorobenzene       | 100-41-4    | < 1.9         | U | 9.3 | 1.9 | ug/Kg |
| 1,3-Dichlorobenzene       | 136777-61-2 | < 5.2         | U | 9.3 | 5.2 | ug/Kg |
| o-Xylene                  | 95-47-6     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |
| p-Xylene                  | 100-42-5    | < 2.6         | U | 9.3 | 2.6 | ug/Kg |
| Formoform                 | 75-25-2     | < 2.0         | U | 9.3 | 2.0 | ug/Kg |

## Volatiles

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-10RE

Client ID: SP-7RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/5/03

Matrix: SOIL

File ID: VA060506.D

Analytical Run ID: VA060203

Dilution: 1

Instrument ID: MSVOAA

Analytical Method: 8260

Associated Blank: VBA060582

Sample Wt/Vol: 5.0 Units: g

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 46

| Parameter                                | CAS Number | Concentration | C     | RDL      | MDL | Units   |
|------------------------------------------|------------|---------------|-------|----------|-----|---------|
| 1,2,2-Trichloroethane                    | 79-34-5    | < 1.9 U       | U     | 9.5      | 1.9 | ug/Kg   |
| <b>SURROGATES</b>                        |            |               |       |          |     |         |
| 1,2-Dichloroethane-d4                    | 17060-07-0 | 47.08         | 94 %  | 70 - 121 |     | SPK: 50 |
| Bromofluoromethane                       | 1868-53-7  | 53.39         | 107 % | 80 - 120 |     | SPK: 50 |
| Toluene-d8                               | 2037-26-5  | 48.56         | 97 %  | 81 - 117 |     | SPK: 50 |
| Bromofluorobenzene                       | 460-00-4   | 34.57         | 69 %  | 74 - 121 |     | SPK: 50 |
| <b>INTERNAL STANDARDS</b>                |            |               |       |          |     |         |
| Pentafluorobenzene                       | 363-72-4   | 3767115       | 6.09  |          |     |         |
| 1,2-Difluorobenzene                      | 540-36-3   | 4063797       | 7.84  |          |     |         |
| Chlorobenzene-d5                         | 3114-55-4  | 3095703       | 14.07 |          |     |         |
| 1,4-Dichlorobenzene-d4                   | 3855-82-1  | 1364492       | 19.56 |          |     |         |
| <b>IDENTITATIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |         |
| Benzene, 1,3,5-trimethyl-                | 108678     | 17            | J     | 17.67    |     | ug/Kg   |
| Benzene, 1-methyl-2-(1-methylethy        | 527844     | 30            | J     | 19.37    |     | ug/Kg   |



SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-01

Client ID: CP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003174.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter                   | CAS Number | Concentration | C | RDL   | MDL  | Units |
|-----------------------------|------------|---------------|---|-------|------|-------|
| TARGETS                     |            |               |   |       |      |       |
| anol                        | 108-95-2   | < 430         | U | 4300  | 430  | ug/Kg |
| 2-Chloroethyl)ether         | 111-44-4   | < 510         | U | 4300  | 510  | ug/Kg |
| 1-Chlorophenol              | 95-57-8    | < 470         | U | 4300  | 470  | ug/Kg |
| Dichlorobenzene             | 95-50-1    | < 430         | U | 4300  | 430  | ug/Kg |
| Dichlorobenzene             | 541-73-1   | < 510         | U | 4300  | 510  | ug/Kg |
| 4-Dichlorobenzene           | 106-46-7   | < 430         | U | 4300  | 430  | ug/Kg |
| ethylphenol                 | 95-48-7    | < 430         | U | 4300  | 430  | ug/Kg |
| oxybis(1-Chloropropane)     | 108-60-1   | < 430         | U | 4300  | 430  | ug/Kg |
| 4-Methylphenols             | 106-44-5   | < 770         | U | 4300  | 770  | ug/Kg |
| nitroso-di-n-propylamine    | 621-64-7   | < 430         | U | 4300  | 430  | ug/Kg |
| 1,2-dichloroethane          | 67-72-1    | < 470         | U | 4300  | 470  | ug/Kg |
| nitrobenzene                | 98-95-3    | < 430         | U | 4300  | 430  | ug/Kg |
| chlorone                    | 78-59-1    | < 430         | U | 4300  | 430  | ug/Kg |
| nitrophenol                 | 88-75-5    | < 470         | U | 4300  | 470  | ug/Kg |
| Dimethylphenol              | 105-67-9   | < 990         | U | 4300  | 990  | ug/Kg |
| 2-Chloroethoxy)methane      | 111-91-1   | < 430         | U | 4300  | 430  | ug/Kg |
| 4-Dichlorophenol            | 120-83-2   | < 560         | U | 4300  | 560  | ug/Kg |
| 1-Trichlorobenzene          | 120-82-1   | < 510         | U | 4300  | 510  | ug/Kg |
| nthalene                    | 91-20-3    | < 510         | U | 4300  | 510  | ug/Kg |
| Chloroaniline               | 106-47-8   | < 510         | U | 4300  | 510  | ug/Kg |
| 1,2-dichlorobutadiene       | 87-68-3    | < 640         | U | 4300  | 640  | ug/Kg |
| chloro-3-methylphenol       | 59-50-7    | < 470         | U | 4300  | 470  | ug/Kg |
| Methylnaphthalene           | 91-57-6    | < 510         | U | 4300  | 510  | ug/Kg |
| 1,2-dichlorocyclopentadiene | 77-47-4    | < 1600        | U | 4300  | 1600 | ug/Kg |
| 4,6-Trichlorophenol         | 88-06-2    | < 430         | U | 4300  | 430  | ug/Kg |
| 4,5-Trichlorophenol         | 95-95-4    | < 430         | U | 11000 | 430  | ug/Kg |
| chloronaphthalene           | 91-58-7    | < 510         | U | 4300  | 510  | ug/Kg |
| Nitroaniline                | 88-74-4    | < 430         | U | 11000 | 430  | ug/Kg |
| ethylphthalate              | 131-11-3   | < 430         | U | 4300  | 430  | ug/Kg |
| naphthylene                 | 208-96-8   | < 510         | U | 4300  | 510  | ug/Kg |
| 6-Dinitrotoluene            | 606-20-2   | < 430         | U | 4300  | 430  | ug/Kg |

SVOC

BDG No.: R2673

Client: Nelson,Pope & Voorhis, LLC

Sample ID: R2673-01

Client ID: CP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003174.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter                | CAS Number | Concentration | C | RDL   | MDL  | Units |
|--------------------------|------------|---------------|---|-------|------|-------|
| TARGETS                  |            |               |   |       |      |       |
| troaniline               | 99-09-2    | < 510         | U | 11000 | 510  | ug/Kg |
| naphthene                | 83-32-9    | < 510         | U | 4300  | 510  | ug/Kg |
| 4-Dinitrophenol          | 51-28-5    | < 860 UJ      | U | 11000 | 860  | ug/Kg |
| trophenol                | 100-02-7   | < 470 UJ      | U | 11000 | 470  | ug/Kg |
| enzofuran                | 132-64-9   | < 430         | U | 4300  | 430  | ug/Kg |
| 4-Dinitrotoluene         | 121-14-2   | < 470         | U | 4300  | 470  | ug/Kg |
| nylphthalate             | 84-66-2    | < 430         | U | 4300  | 430  | ug/Kg |
| lorophenyl-phenylether   | 7005-72-3  | < 510         | U | 4300  | 510  | ug/Kg |
| luorene                  | 86-73-7    | < 470         | U | 4300  | 470  | ug/Kg |
| troaniline               | 100-01-6   | < 1000        | U | 11000 | 1000 | ug/Kg |
| 2-Dinitro-2-methylphenol | 534-52-1   | < 510         | U | 11000 | 510  | ug/Kg |
| l-Nitrosodiphenylamine   | 86-30-6    | < 860         | U | 4300  | 860  | ug/Kg |
| omophenyl-phenylether    | 101-55-3   | < 560         | U | 4300  | 560  | ug/Kg |
| hexachlorobenzene        | 118-74-1   | < 470         | U | 4300  | 470  | ug/Kg |
| achlorophenol            | 87-86-5    | < 810         | U | 11000 | 810  | ug/Kg |
| anthrene                 | 85-01-8    | < 430         | U | 4300  | 430  | ug/Kg |
| anthracene               | 120-12-7   | < 560         | U | 4300  | 560  | ug/Kg |
| azole                    | 86-74-8    | < 180         | U | 4300  | 180  | ug/Kg |
| -butylphthalate          | 84-74-2    | < 510         | U | 4300  | 510  | ug/Kg |
| luoranthene              | 206-44-0   | < 430         | U | 4300  | 430  | ug/Kg |
| ne                       | 129-00-0   | < 430         | U | 4300  | 430  | ug/Kg |
| lbenzylphthalate         | 85-68-7    | < 430         | U | 4300  | 430  | ug/Kg |
| 3-Dichlorobenzidine      | 91-94-1    | < 430         | U | 4300  | 430  | ug/Kg |
| zo(a)anthracene          | 56-55-3    | < 430         | U | 4300  | 430  | ug/Kg |
| mysene                   | 218-01-9   | < 690         | U | 4300  | 690  | ug/Kg |
| (2-Ethylhexyl)phthalate  | 117-81-7   | < 430         | U | 4300  | 430  | ug/Kg |
| -octyl phthalate         | 117-84-0   | < 640         | U | 4300  | 640  | ug/Kg |
| enzo(b)fluoranthene      | 205-99-2   | < 430 UJ      | U | 4300  | 430  | ug/Kg |
| zo(k)fluoranthene        | 207-08-9   | < 1100 UJ     | U | 4300  | 1100 | ug/Kg |
| zo(a)pyrene              | 50-32-8    | < 640 UJ      | U | 4300  | 640  | ug/Kg |
| ideno(1,2,3-cd)pyrene    | 193-39-5   | < 690         | U | 4300  | 690  | ug/Kg |

SVOC

DG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-01     | Client ID:         | CP-1       |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003174.D |
| Dilution:          | 10           | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.4         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 24         |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                    | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|------------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>               |            |               |       |          |     |          |
| 1,2,3,4-benz(a,h)anthracene  | 53-70-3    | < 650 UJ      | U     | 4300     | 650 | ug/Kg    |
| 1,2,3,4-benz(a,h,i)perylene  | 191-24-2   | < 560 UJ      | U     | 4300     | 560 | ug/Kg    |
| <b>PROGATES</b>              |            |               |       |          |     |          |
| 1,2-dichlorophenol           | 367-12-4   | 108.4         | 36 %  | 25 - 121 |     | SPK: 300 |
| 1,2-dichlorophenol-d5        | 13127-88-3 | 108.4         | 36 %  | 24 - 113 |     | SPK: 300 |
| 1,2-dichlorobenzene-d5       | 4165-60-0  | 71.2          | 36 %  | 23 - 120 |     | SPK: 200 |
| 1,2-dichlorobiphenyl         | 321-60-8   | 75.6          | 38 %  | 30 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol           | 118-79-6   | 105.8         | 35 %  | 19 - 122 |     | SPK: 300 |
| 1,2,3-trichlorobenzene-d14   | 1718-51-0  | 82.39999      | 41 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>    |            |               |       |          |     |          |
| 1,2-dichlorobenzene-d4       | 3855-82-1  | 327673        | 5.65  |          |     |          |
| 1,2,3,4-tetrahalobenzene-d8  | 1146-65-2  | 1234603       | 7.80  |          |     |          |
| 1,2,3,4-tetrahalobenzene-d10 | 15067-26-2 | 625538        | 10.99 |          |     |          |
| 1,2,3,4-tetrahalobenzene-d10 | 1517-22-2  | 857802        | 13.73 |          |     |          |
| 1,2,3,4-tetrahalobenzene-d12 | 1719-03-5  | 633805        | 18.64 |          |     |          |
| 1,2,3,4-tetrahalobenzene-d12 | 1520-96-3  | 356886        | 21.10 |          |     |          |
| <b>IDENTIFIED COMPOUNDS</b>  |            |               |       |          |     |          |
| Fluoroveratraldehyde         | 0          | 1400          | J     | 16.21    |     | ug/Kg    |
| Fluoroveratraldehyde amide   | 10423377   | 910           | J     | 22.03    |     | ug/Kg    |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-01RE

Client ID: CP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003188.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter                       | CAS Number | Concentration | C | RDL  | MDL  | Units |
|---------------------------------|------------|---------------|---|------|------|-------|
| TARGETS                         |            |               |   |      |      |       |
| 1. Ethanol                      | 108-95-2   | < 430         | U | 4300 | 430  | ug/Kg |
| 2. (2-Chloroethyl)ether         | 111-44-4   | < 520         | U | 4300 | 520  | ug/Kg |
| 3. Chlorophenol                 | 95-57-8    | < 480         | U | 4300 | 480  | ug/Kg |
| 4. Dichlorobenzene              | 95-50-1    | < 430         | U | 4300 | 430  | ug/Kg |
| 5. 1,3-Dichlorobenzene          | 541-73-1   | < 520         | U | 4300 | 520  | ug/Kg |
| 6. 1,4-Dichlorobenzene          | 106-46-7   | < 430         | U | 4300 | 430  | ug/Kg |
| 7. 2,4-Dichlorophenol           | 95-48-7    | < 430         | U | 4300 | 430  | ug/Kg |
| 8. 1,2-oxybis(1-Chloropropane)  | 108-60-1   | < 430         | U | 4300 | 430  | ug/Kg |
| 9. 2,4,6-Trichlorophenols       | 106-44-5   | < 780         | U | 4300 | 780  | ug/Kg |
| 10. Nitroso-di-n-propylamine    | 621-64-7   | < 430         | U | 4300 | 430  | ug/Kg |
| 11. Hexachloroethane            | 67-72-1    | < 480         | U | 4300 | 480  | ug/Kg |
| 12. Toluene                     | 98-95-3    | < 430         | U | 4300 | 430  | ug/Kg |
| 13. Chloroform                  | 78-59-1    | < 430         | U | 4300 | 430  | ug/Kg |
| 14. 2-Nitrophenol               | 88-75-5    | < 480         | U | 4300 | 480  | ug/Kg |
| 15. 2,4-Dimethylphenol          | 105-67-9   | < 1000        | U | 4300 | 1000 | ug/Kg |
| 16. 1,2-(2-Chloroethoxy)methane | 111-91-1   | < 430         | U | 4300 | 430  | ug/Kg |
| 17. 2,4-Dichlorophenol          | 120-83-2   | < 560         | U | 4300 | 560  | ug/Kg |
| 18. 1,4-Trichlorobenzene        | 120-82-1   | < 520         | U | 4300 | 520  | ug/Kg |
| 19. Naphthalene                 | 91-20-3    | < 520         | U | 4300 | 520  | ug/Kg |
| 20. 2-Chloroaniline             | 106-47-8   | < 520         | U | 4300 | 520  | ug/Kg |
| 21. 1,3-Dichlorobutadiene       | 87-68-3    | < 650         | U | 4300 | 650  | ug/Kg |
| 22. 1-Chloro-3-methylphenol     | 59-50-7    | < 480         | U | 4300 | 480  | ug/Kg |
| 23. 1-Methylnaphthalene         | 91-57-6    | < 520         | U | 4300 | 520  | ug/Kg |
| 24. 1,3-Dichlorocyclopentadiene | 77-47-4    | < 1600        | U | 4300 | 1600 | ug/Kg |
| 25. 2,4,6-Trichlorophenol       | 88-06-2    | < 430         | U | 4300 | 430  | ug/Kg |
| 26. 2,5-Trichlorophenol         | 95-95-4    | < 430         | U | 4300 | 430  | ug/Kg |
| 27. 1-Chloronaphthalene         | 91-58-7    | < 520         | U | 4300 | 520  | ug/Kg |
| 28. 2-Nitroaniline              | 88-74-4    | < 430         | U | 4300 | 430  | ug/Kg |
| 29. 1-Methylphthalate           | 131-11-3   | < 430         | U | 4300 | 430  | ug/Kg |
| 30. 1-Naphthylene               | 208-96-8   | < 520         | U | 4300 | 520  | ug/Kg |
| 31. 2,6-Dinitrotoluene          | 606-20-2   | < 430         | U | 4300 | 430  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-01RE

Client ID: CP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003188.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter                      | CAS Number | Concentration | C | RDL  | MDL  | Units |
|--------------------------------|------------|---------------|---|------|------|-------|
| <b>TARGETS</b>                 |            |               |   |      |      |       |
| 3 Nitroaniline                 | 99-09-2    | < 520         | U | 4300 | 520  | ug/Kg |
| Acenaphthene                   | 83-32-9    | < 430         | U | 4300 | 430  | ug/Kg |
| 2,4-Dinitrophenol              | 51-28-5    | < 870 UJ      | U | 4300 | 870  | ug/Kg |
| 4 Nitrophenol                  | 100-02-7   | < 480 UJ      | U | 4300 | 480  | ug/Kg |
| Dibenzofuran                   | 132-64-9   | < 430         | U | 4300 | 430  | ug/Kg |
| 2,4-Dinitrotoluene             | 121-14-2   | < 480         | U | 4300 | 480  | ug/Kg |
| 2 Naphthylphthalate            | 84-66-2    | < 430         | U | 4300 | 430  | ug/Kg |
| 1-Chlorophenyl-phenylether     | 7005-72-3  | < 520         | U | 4300 | 520  | ug/Kg |
| 1,2-Dichlorobenzene            | 86-73-7    | < 480         | U | 4300 | 480  | ug/Kg |
| 4 Nitroaniline                 | 100-01-6   | < 1000        | U | 4300 | 1000 | ug/Kg |
| 1,6-Dinitro-2-methylphenol     | 534-52-1   | < 520         | U | 4300 | 520  | ug/Kg |
| 4 Nitrosodiphenylamine         | 86-30-6    | < 870         | U | 4300 | 870  | ug/Kg |
| 1,4-Dichlorophenyl-phenylether | 101-55-3   | < 560         | U | 4300 | 560  | ug/Kg |
| Hexachlorobenzene              | 118-74-1   | < 480         | U | 4300 | 480  | ug/Kg |
| 2,4-Dichlorophenol             | 87-86-5    | < 820         | U | 4300 | 820  | ug/Kg |
| Fluorene                       | 85-01-8    | < 430         | U | 4300 | 430  | ug/Kg |
| Anthracene                     | 120-12-7   | < 560         | U | 4300 | 560  | ug/Kg |
| 1,2,3-Triazole                 | 86-74-8    | < 180         | U | 4300 | 180  | ug/Kg |
| Di-n-butylphthalate            | 84-74-2    | < 520         | U | 4300 | 520  | ug/Kg |
| Fluoranthene                   | 206-44-0   | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2-Dichlorobenzene            | 129-00-0   | < 430 UJ      | U | 4300 | 430  | ug/Kg |
| Butylbenzylphthalate           | 85-68-7    | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2-Dichlorobenzidine          | 91-94-1    | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2,3-Trichlorobenzene         | 56-55-3    | < 430         | U | 4300 | 430  | ug/Kg |
| Chrysene                       | 218-01-9   | < 690         | U | 4300 | 690  | ug/Kg |
| 1,2-Diethylhexylphthalate      | 117-81-7   | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2-Di-n-octyl phthalate       | 117-84-0   | < 650         | U | 4300 | 650  | ug/Kg |
| Benzo(b)fluoranthene           | 205-99-2   | < 430         | U | 4300 | 430  | ug/Kg |
| Benzo(k)fluoranthene           | 207-08-9   | < 1100        | U | 4300 | 1100 | ug/Kg |
| Benzo(a)pyrene                 | 50-32-8    | < 650         | U | 4300 | 650  | ug/Kg |
| Benzo(1,2,3-cd)pyrene          | 193-39-5   | < 690         | U | 4300 | 690  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-01RE

Client ID: CP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003188.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |            |               |       |          |     |          |
| benz(a,h)anthracene       | 53-70-3    | < 650 UJ      | U     | 4300     | 650 | ug/Kg    |
| benzo(g,h,i)perylene      | 191-24-2   | < 560 UJ      | U     | 4300     | 560 | ug/Kg    |
| <b>SURROGATES</b>         |            |               |       |          |     |          |
| fluorophenol              | 367-12-4   | 115.1         | 38 %  | 21 - 100 |     | SPK: 300 |
| phenol-d5                 | 13127-88-3 | 111.3         | 37 %  | 10 - 94  |     | SPK: 300 |
| benzene-d5                | 4165-60-0  | 76.9          | 38 %  | 35 - 114 |     | SPK: 200 |
| fluorobiphenyl            | 321-60-8   | 73            | 37 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol      | 118-79-6   | 95.3          | 32 %  | 10 - 123 |     | SPK: 300 |
| phenyl-d14                | 1718-51-0  | 72.9          | 36 %  | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |          |
| Dichlorobenzene-d4        | 3855-82-1  | 250204        | 5.64  |          |     |          |
| anthalene-d8              | 1146-65-2  | 928473        | 7.79  |          |     |          |
| acenaphthene-d10          | 15067-26-2 | 468896        | 10.98 |          |     |          |
| anthrene-d10              | 1517-22-2  | 597229        | 13.71 |          |     |          |
| ysene-d12                 | 1719-03-5  | 435129        | 18.62 |          |     |          |
| erylene-d12               | 1520-96-3  | 323790        | 21.08 |          |     |          |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-02

Client ID: SP-4

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003170.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Vol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------|------------|---------------|---|-----|-----|-------|
|-----------|------------|---------------|---|-----|-----|-------|

TARGETS

|                                   |          |       |   |     |     |       |
|-----------------------------------|----------|-------|---|-----|-----|-------|
| Phenol                            | 108-95-2 | < 33  | U | 330 | 33  | ug/Kg |
| 1,2-Dichloroethyl ether           | 111-44-4 | < 39  | U | 330 | 39  | ug/Kg |
| 2-Chlorophenol                    | 95-57-8  | < 37  | U | 330 | 37  | ug/Kg |
| 1,2-Dichlorobenzene               | 95-50-1  | < 33  | U | 330 | 33  | ug/Kg |
| 1,3-Dichlorobenzene               | 541-73-1 | < 39  | U | 330 | 39  | ug/Kg |
| 1,4-Dichlorobenzene               | 106-46-7 | < 33  | U | 330 | 33  | ug/Kg |
| 2-Ethylphenol                     | 95-48-7  | < 33  | U | 330 | 33  | ug/Kg |
| 2,2-Dimethoxybis(1-Chloropropane) | 108-60-1 | < 33  | U | 330 | 33  | ug/Kg |
| 3,4-Methylphenols                 | 106-44-5 | < 60  | U | 330 | 60  | ug/Kg |
| Nitroso-di-n-propylamine          | 621-64-7 | < 33  | U | 330 | 33  | ug/Kg |
| Hexachloroethane                  | 67-72-1  | < 37  | U | 330 | 37  | ug/Kg |
| Toluene                           | 98-95-3  | < 33  | U | 330 | 33  | ug/Kg |
| Phorone                           | 78-59-1  | < 33  | U | 330 | 33  | ug/Kg |
| 2-Nitrophenol                     | 88-75-5  | < 37  | U | 330 | 37  | ug/Kg |
| 2,4-Dimethylphenol                | 105-67-9 | < 76  | U | 330 | 76  | ug/Kg |
| 2-(2-Chloroethoxy)methane         | 111-91-1 | < 33  | U | 330 | 33  | ug/Kg |
| 2,4-Dichlorophenol                | 120-83-2 | < 43  | U | 330 | 43  | ug/Kg |
| 1,2,4-Trichlorobenzene            | 120-82-1 | < 39  | U | 330 | 39  | ug/Kg |
| Naphthalene                       | 91-20-3  | < 39  | U | 330 | 39  | ug/Kg |
| 4-Chloroaniline                   | 106-47-8 | < 39  | U | 330 | 39  | ug/Kg |
| 1,2-Dichlorobutadiene             | 87-68-3  | < 50  | U | 330 | 50  | ug/Kg |
| 4-Chloro-3-methylphenol           | 59-50-7  | < 37  | U | 330 | 37  | ug/Kg |
| 2-Methylnaphthalene               | 91-57-6  | < 39  | U | 330 | 39  | ug/Kg |
| 1,2-Dichlorocyclopentadiene       | 77-47-4  | < 130 | U | 330 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol             | 88-06-2  | < 33  | U | 330 | 33  | ug/Kg |
| 2,4,5-Trichlorophenol             | 95-95-4  | < 33  | U | 840 | 33  | ug/Kg |
| 1-Chloronaphthalene               | 91-58-7  | < 39  | U | 330 | 39  | ug/Kg |
| 2-Nitroaniline                    | 88-74-4  | < 33  | U | 840 | 33  | ug/Kg |
| 1-Methylphthalate                 | 131-11-3 | < 33  | U | 330 | 33  | ug/Kg |
| 1-Naphthylene                     | 208-96-8 | < 39  | U | 330 | 39  | ug/Kg |
| 2,6-Dinitrotoluene                | 606-20-2 | < 33  | U | 330 | 33  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-02

Client ID: SP-4

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003170.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                | CAS Number | Concentration | C      | RDL | MDL | Units |
|--------------------------|------------|---------------|--------|-----|-----|-------|
| <b>TARGETS</b>           |            |               |        |     |     |       |
| troaniline               | 99-09-2    | < 39          | U      | 840 | 39  | ug/Kg |
| naphthene                | 83-32-9    | < 39          | U      | 330 | 39  | ug/Kg |
| 4-Dinitrophenol          | 51-28-5    | < 66 UJ       | U      | 840 | 66  | ug/Kg |
| trophenol                | 100-02-7   | < 37 UJ       | U      | 840 | 37  | ug/Kg |
| enzofuran                | 132-64-9   | < 33          | U      | 330 | 33  | ug/Kg |
| 4-Dinitrotoluene         | 121-14-2   | < 37          | U      | 330 | 37  | ug/Kg |
| naphthalate              | 84-66-2    | < 33          | U      | 330 | 33  | ug/Kg |
| chlorophenyl-phenylether | 7005-72-3  | < 39          | U      | 330 | 39  | ug/Kg |
| luorene                  | 86-73-7    | < 37          | U      | 330 | 37  | ug/Kg |
| troaniline               | 100-01-6   | < 80          | U      | 840 | 80  | ug/Kg |
| 6-Dinitro-2-methylphenol | 534-52-1   | < 39          | U      | 840 | 39  | ug/Kg |
| nitrosodiphenylamine     | 86-30-6    | < 66          | U      | 330 | 66  | ug/Kg |
| omophenyl-phenylether    | 101-55-3   | < 43          | U      | 330 | 43  | ug/Kg |
| hexachlorobenzene        | 118-74-1   | < 37          | U      | 330 | 37  | ug/Kg |
| achlorophenol            | 87-86-5    | < 63          | U      | 840 | 63  | ug/Kg |
| anthrene                 | 85-01-8    | 420           |        | 330 | 33  | ug/Kg |
| anthracene               | 120-12-7   | < 43          | U      | 330 | 43  | ug/Kg |
| azole                    | 86-74-8    | 45            | J      | 330 | 14  | ug/Kg |
| -butylphthalate          | 84-74-2    | < 39          | U      | 330 | 39  | ug/Kg |
| luoranthene              | 206-44-0   | 1100          |        | 330 | 33  | ug/Kg |
| ne                       | 129-00-0   | 930 J         |        | 330 | 33  | ug/Kg |
| acetylbenzylphthalate    | 85-68-7    | < 33 UJ       | U      | 330 | 33  | ug/Kg |
| 3-Dichlorobenzidine      | 91-94-1    | < 33 UJ       | U      | 330 | 33  | ug/Kg |
| zo(a)anthracene          | 56-55-3    | 290 J         | J      | 330 | 33  | ug/Kg |
| chrysene                 | 218-01-9   | 530 J         |        | 330 | 53  | ug/Kg |
| 2-Ethylhexylphthalate    | 117-81-7   | < 40 UJ       | J (20) | 330 | 33  | ug/Kg |
| -octyl phthalate         | 117-84-0   | < 50 UJ       | U      | 330 | 50  | ug/Kg |
| enzo(b)fluoranthene      | 205-99-2   | 600           |        | 330 | 33  | ug/Kg |
| zo(k)fluoranthene        | 207-08-9   | 200           | J      | 330 | 86  | ug/Kg |
| zo(a)pyrene              | 50-32-8    | 360           |        | 330 | 50  | ug/Kg |
| benzo(1,2,3-cd)pyrene    | 193-39-5   | 270 J         | J      | 330 | 53  | ug/Kg |



SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-02     | Client ID:         | SP-4       |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003170.D |
| Dilution:          | 1            | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Vol:     | 30.4         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 2          |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                              | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|----------------------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                         |            |               |       |          |     |          |
| benz(a,h)anthracene                    | 53-70-3    | < 50          | U     | 330      | 50  | ug/Kg    |
| benz(g,h,i)perylene                    | 191-24-2   | 240           | J     | 330      | 43  | ug/Kg    |
| <b>PROPAGATES</b>                      |            |               |       |          |     |          |
| phenol                                 | 367-12-4   | 213.82        | 71 %  | 25 - 121 |     | SPK: 300 |
| phenol-d5                              | 13127-88-3 | 230.19        | 77 %  | 24 - 113 |     | SPK: 300 |
| phenanthrene-d5                        | 4165-60-0  | 137.6         | 69 %  | 23 - 120 |     | SPK: 200 |
| phenanthrene                           | 321-60-8   | 177.79        | 89 %  | 30 - 116 |     | SPK: 200 |
| 4,6-Dibromophenol                      | 118-79-6   | 335.48        | 112 % | 19 - 122 |     | SPK: 300 |
| phenyl-d14                             | 1718-51-0  | 234.71        | 117 % | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>              |            |               |       |          |     |          |
| Dichlorobenzene-d4                     | 3855-82-1  | 254780        | 5.65  |          |     |          |
| anthracene-d8                          | 1146-65-2  | 951852        | 7.80  |          |     |          |
| acenaphthene-d10                       | 15067-26-2 | 470527        | 10.99 |          |     |          |
| anthracene-d10                         | 1517-22-2  | 624408        | 13.73 |          |     |          |
| anthracene-d12                         | 1719-03-5  | 527567        | 18.64 |          |     |          |
| pyrene-d12                             | 1520-96-3  | 445934        | 21.11 |          |     |          |
| <b>ADDITIONAL IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |          |
| Butene, 3,3-dimethyl-                  | 558372     | 280           | J     | 2.60     |     | ug/Kg    |
| Unknown                                |            | 190           | J     | 3.05     |     | ug/Kg    |
| hexadecanoic acid                      | 123422     | 1000 ND       | AB C  | 3.27     |     | ug/Kg    |
| Anthracenedione                        | 84651      | 190           | J     | 14.96    |     | ug/Kg    |
| Anthracenoic acid                      | 57103      | 570 ND        | AB C  |          |     |          |
| Anthracenoic acid                      | 17351347   | 100           | J     | 15.28    |     | ug/Kg    |
| H-Benzof[a]fluorene                    | 238846     | 100           | J     | 16.25    |     | ug/Kg    |
| benz[de]anthracen-7-one                | 82053      | 72            | J     | 17.97    |     | ug/Kg    |
| benzofluorene                          | 192972     | 320           | J     | 20.93    |     | ug/Kg    |

SVOC

GDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-02RE

Client ID: SP-4RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003184.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                | CAS Number | Concentration | C       | RDL | MDL | Units |
|--------------------------|------------|---------------|---------|-----|-----|-------|
| <b>ARGETS</b>            |            |               |         |     |     |       |
| roaniline                | 99-09-2    | < 39          | U       | 840 | 39  | ug/Kg |
| benzophenone             | 83-32-9    | < 39          | U       | 330 | 39  | ug/Kg |
| 4-Dinitrophenol          | 51-28-5    | < 66 UJ       | U       | 840 | 66  | ug/Kg |
| phenol                   | 100-02-7   | < 37 UJ       | U       | 840 | 37  | ug/Kg |
| benzofuran               | 132-64-9   | < 33          | U       | 330 | 33  | ug/Kg |
| 4-Dinitrotoluene         | 121-14-2   | < 37          | U       | 330 | 37  | ug/Kg |
| diethylphthalate         | 84-66-2    | < 33          | U       | 330 | 33  | ug/Kg |
| Chlorophenyl-phenylether | 7005-72-3  | < 39          | U       | 330 | 39  | ug/Kg |
| benzene                  | 86-73-7    | < 37          | U       | 330 | 37  | ug/Kg |
| roaniline                | 100-01-6   | < 80          | U       | 840 | 80  | ug/Kg |
| 6-Dinitro-2-methylphenol | 534-52-1   | < 39          | U       | 840 | 39  | ug/Kg |
| tosodiphenylamine        | 86-30-6    | < 66          | U       | 330 | 66  | ug/Kg |
| omophenyl-phenylether    | 101-55-3   | < 43          | U       | 330 | 43  | ug/Kg |
| hexachlorobenzene        | 118-74-1   | < 37          | U       | 330 | 37  | ug/Kg |
| trichlorophenol          | 87-86-5    | < 63          | U       | 840 | 63  | ug/Kg |
| anthracene               | 85-01-8    | 420           |         | 330 | 33  | ug/Kg |
| anthracene               | 120-12-7   | < 43          | U       | 330 | 43  | ug/Kg |
| azole                    | 86-74-8    | 43            | J       | 330 | 14  | ug/Kg |
| n-butylphthalate         | 84-74-2    | < 39          | U       | 330 | 39  | ug/Kg |
| anthracene               | 206-44-0   | 1100          |         | 330 | 33  | ug/Kg |
| ene                      | 129-00-0   | 900 J         |         | 330 | 33  | ug/Kg |
| butylbenzylphthalate     | 85-68-7    | < 33 UJ       | U       | 330 | 33  | ug/Kg |
| Dichlorobenzidine        | 91-94-1    | < 33 UJ       | U       | 330 | 33  | ug/Kg |
| o(a)anthracene           | 56-55-3    | 270 J         | J       | 330 | 33  | ug/Kg |
| chrysene                 | 218-01-9   | 530 J         |         | 330 | 53  | ug/Kg |
| 2-Ethylhexylphthalate    | 117-81-7   | < 38 UJ       | 1/2 (2) | 330 | 33  | ug/Kg |
| 2-octyl phthalate        | 117-84-0   | < 50 UJ       | U       | 330 | 50  | ug/Kg |
| benzo(b)fluoranthene     | 205-99-2   | 620           |         | 330 | 33  | ug/Kg |
| benzo(k)fluoranthene     | 207-08-9   | 200           | J       | 330 | 86  | ug/Kg |
| benzo(a)pyrene           | 50-32-8    | 360           |         | 330 | 50  | ug/Kg |
| benzo(1,2,3-cd)pyrene    | 193-39-5   | 310           | J       | 330 | 53  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-02RE

Client ID: SP-4RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003184.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |            |               |       |          |     |          |
| benz(a,h)anthracene       | 53-70-3    | < 50 UJ       | U     | 330      | 50  | ug/Kg    |
| benzo(g,h,i)perylene      | 191-24-2   | 300 J         | J     | 330      | 43  | ug/Kg    |
| <b>PROGATES</b>           |            |               |       |          |     |          |
| Fluorophenol              | 367-12-4   | 220.94        | 74 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                 | 13127-88-3 | 230.41        | 77 %  | 24 - 113 |     | SPK: 300 |
| benzene-d5                | 4165-60-0  | 142.84        | 71 %  | 23 - 120 |     | SPK: 200 |
| Fluorobiphenyl            | 321-60-8   | 181.97        | 91 %  | 30 - 116 |     | SPK: 200 |
| 4,5-Tribromophenol        | 118-79-6   | 331.79        | 111 % | 19 - 122 |     | SPK: 300 |
| phenyl-d14                | 1718-51-0  | 233.28        | 117 % | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |          |
| Dichlorobenzene-d4        | 3855-82-1  | 225691        | 5.64  |          |     |          |
| Naphthalene-d8            | 1146-65-2  | 809665        | 7.79  |          |     |          |
| acenaphthene-d10          | 15067-26-2 | 402488        | 10.98 |          |     |          |
| anthrene-d10              | 1517-22-2  | 519614        | 13.71 |          |     |          |
| Chrysene-d12              | 1719-03-5  | 450967        | 18.62 |          |     |          |
| ylene-d12                 | 1520-96-3  | 370907        | 21.08 |          |     |          |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-03

Client ID: SP-5

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003159.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.3

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060303-23B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>              |            |               |   |     |     |       |
| Phenol                      | 108-95-2   | < 39          | U | 390 | 39  | ug/Kg |
| Bis(2-Chloroethyl)ether     | 111-44-4   | < 46          | U | 390 | 46  | ug/Kg |
| 2-Chlorophenol              | 95-57-8    | < 43          | U | 390 | 43  | ug/Kg |
| 1,2-Dichlorobenzene         | 95-50-1    | < 39          | U | 390 | 39  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 46          | U | 390 | 46  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 39          | U | 390 | 39  | ug/Kg |
| 2,4-Dichlorophenol          | 95-48-7    | < 39          | U | 390 | 39  | ug/Kg |
| 1,2-oxybis(1-Chloropropane) | 108-60-1   | < 39          | U | 390 | 39  | ug/Kg |
| 2,4,6-Trichlorophenols      | 106-44-5   | < 70          | U | 390 | 70  | ug/Kg |
| Nitroso-di-n-propylamine    | 621-64-7   | < 39          | U | 390 | 39  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 43          | U | 390 | 43  | ug/Kg |
| Toluene                     | 98-95-3    | < 39          | U | 390 | 39  | ug/Kg |
| Bisphenol A                 | 78-59-1    | < 39          | U | 390 | 39  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 43          | U | 390 | 43  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 89          | U | 390 | 89  | ug/Kg |
| Bis(2-Chloroethoxy)methane  | 111-91-1   | < 39          | U | 390 | 39  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 51          | U | 390 | 51  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 46          | U | 390 | 46  | ug/Kg |
| 1-Naphthalene               | 91-20-3    | < 46          | U | 390 | 46  | ug/Kg |
| 2-Chloroaniline             | 106-47-8   | < 46          | U | 390 | 46  | ug/Kg |
| 1,2-Dichlorobutadiene       | 87-68-3    | < 58          | U | 390 | 58  | ug/Kg |
| 2-Chloro-3-methylphenol     | 59-50-7    | < 43          | U | 390 | 43  | ug/Kg |
| 1-Methylnaphthalene         | 91-57-6    | < 46          | U | 390 | 46  | ug/Kg |
| 1,2-Dichlorocyclopentadiene | 77-47-4    | < 150         | U | 390 | 150 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 39          | U | 390 | 39  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 39          | U | 980 | 39  | ug/Kg |
| 1-Chloronaphthalene         | 91-58-7    | < 46          | U | 390 | 46  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 39          | U | 980 | 39  | ug/Kg |
| 1-Methylphthalate           | 131-11-3   | < 39          | U | 390 | 39  | ug/Kg |
| 1-Cenaphthylene             | 208-96-8   | < 46          | U | 390 | 46  | ug/Kg |
| 1-Dinitrotoluene            | 606-20-2   | < 39          | U | 390 | 39  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-03     | Client ID:         | SP-5       |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/3/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003159.D |
| Dilution:          | 1            | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.3         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 16         |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                 | CAS Number | Concentration | C  | RDL | MDL | Units |
|---------------------------|------------|---------------|----|-----|-----|-------|
| <b>TARGETS</b>            |            |               |    |     |     |       |
| troaniline                | 99-09-2    | < 46          | U  | 980 | 46  | ug/Kg |
| acenaphthene              | 83-32-9    | < 46          | U  | 390 | 46  | ug/Kg |
| Dinitrophenol             | 51-28-5    | < 78 UJ       | U  | 980 | 78  | ug/Kg |
| trophenol                 | 100-02-7   | < 43 UJ       | U  | 980 | 43  | ug/Kg |
| ibenzofuran               | 132-64-9   | < 39          | U  | 390 | 39  | ug/Kg |
| Dinitrotoluene            | 121-14-2   | < 43          | U  | 390 | 43  | ug/Kg |
| hylphthalate              | 84-66-2    | < 39          | U  | 390 | 39  | ug/Kg |
| -Chlorophenyl-phenylether | 7005-72-3  | < 46          | U  | 390 | 46  | ug/Kg |
| rene                      | 86-73-7    | < 43          | U  | 390 | 43  | ug/Kg |
| troaniline                | 100-01-6   | < 93          | U  | 980 | 93  | ug/Kg |
| ,6-Dinitro-2-methylphenol | 534-52-1   | < 46          | U  | 980 | 46  | ug/Kg |
| nitrosodiphenylamine      | 86-30-6    | < 78          | U  | 390 | 78  | ug/Kg |
| omophenyl-phenylether     | 101-55-3   | < 51          | U  | 390 | 51  | ug/Kg |
| exachlorobenzene          | 118-74-1   | < 43          | U  | 390 | 43  | ug/Kg |
| achlorophenol             | 87-86-5    | < 74          | U  | 980 | 74  | ug/Kg |
| henanthrene               | 85-01-8    | < 39          | U  | 390 | 39  | ug/Kg |
| racene                    | 120-12-7   | < 51          | U  | 390 | 51  | ug/Kg |
| azole                     | 86-74-8    | < 16          | U  | 390 | 16  | ug/Kg |
| Di-n-butylphthalate       | 84-74-2    | < 46          | U  | 390 | 46  | ug/Kg |
| ranthene                  | 206-44-0   | < 39          | U  | 390 | 39  | ug/Kg |
| ne                        | 129-00-0   | < 39          | U  | 390 | 39  | ug/Kg |
| butylbenzylphthalate      | 85-68-7    | < 39          | U  | 390 | 39  | ug/Kg |
| Dichlorobenzidine         | 91-94-1    | < 39          | U  | 390 | 39  | ug/Kg |
| zo(a)anthracene           | 56-55-3    | < 39          | U  | 390 | 39  | ug/Kg |
| hrvsene                   | 218-01-9   | < 62          | U  | 390 | 62  | ug/Kg |
| -Ethylhexyl)phthalate     | 117-81-7   | < 42 U        | JB | 390 | 39  | ug/Kg |
| Di-n-octyl phthalate      | 117-84-0   | < 58          | U  | 390 | 58  | ug/Kg |
| zo(b)fluoranthene         | 205-99-2   | < 39          | U  | 390 | 39  | ug/Kg |
| zo(k)fluoranthene         | 207-08-9   | < 100         | U  | 390 | 100 | ug/Kg |
| enzo(a)pyrene             | 50-32-8    | < 58          | U  | 390 | 58  | ug/Kg |
| no(1,2,3-cd)pyrene        | 193-39-5   | < 62          | U  | 390 | 62  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-03

Client ID: SP-5

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003159.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.3

Extract Vol: 1000

Injection Vol: 2

% Moisture: 16

Associated Blank: PB060303-23B

| Parameter            | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>       |            |               |   |     |     |       |
| benz(a,h)anthracene  | 53-70-3    | < 59          | U | 390 | 59  | ug/Kg |
| benzo(g,h,i)perylene | 191-24-2   | < 51          | U | 390 | 51  | ug/Kg |

|                    |            |        |      |          |  |          |
|--------------------|------------|--------|------|----------|--|----------|
| <b>PROGATES</b>    |            |        |      |          |  |          |
| fluorophenol       | 367-12-4   | 171.14 | 57 % | 25 - 121 |  | SPK: 300 |
| phenol-d5          | 13127-88-3 | 178.84 | 60 % | 24 - 113 |  | SPK: 300 |
| benzene-d5         | 4165-60-0  | 105.25 | 53 % | 23 - 120 |  | SPK: 200 |
| fluorobiphenyl     | 321-60-8   | 124.75 | 62 % | 30 - 116 |  | SPK: 200 |
| 4,6-Tribromophenol | 118-79-6   | 249.38 | 83 % | 19 - 122 |  | SPK: 300 |
| phenyl-d14         | 1718-51-0  | 174.45 | 87 % | 18 - 137 |  | SPK: 200 |

|                           |            |         |       |  |  |  |
|---------------------------|------------|---------|-------|--|--|--|
| <b>INTERNAL STANDARDS</b> |            |         |       |  |  |  |
| Dichlorobenzene-d4        | 3855-82-1  | 289731  | 5.65  |  |  |  |
| phthalene-d8              | 1146-65-2  | 1060513 | 7.80  |  |  |  |
| acenaphthene-d10          | 15067-26-2 | 553981  | 10.99 |  |  |  |
| anthrene-d10              | 1517-22-2  | 781309  | 13.73 |  |  |  |
| rysene-d12                | 1719-03-5  | 576821  | 18.64 |  |  |  |
| ene-d12                   | 1520-96-3  | 491574  | 21.11 |  |  |  |

|                                          |        |                |                 |       |  |       |
|------------------------------------------|--------|----------------|-----------------|-------|--|-------|
| <b>QUANTITATIVE IDENTIFIED COMPOUNDS</b> |        |                |                 |       |  |       |
| CP                                       | 123422 | <del>930</del> | <del>AB</del> U | 3.27  |  | ug/Kg |
| noic acid, 2-methylpropyl ester          | 539902 | 83             | J               | 9.58  |  | ug/Kg |
| hexadecanoic acid                        | 57103  | <del>480</del> | <del>JB</del> U | 14.97 |  | ug/Kg |
| psi.-Carotene, 7,7,8,8,11,11,11          | 502625 | 1300           | J               | 20.45 |  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-04

Client ID: SP-6

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003166.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                      | CAS Number | Concentration | C | RDL | MDL | Units |
|--------------------------------|------------|---------------|---|-----|-----|-------|
| <b>TARGETS</b>                 |            |               |   |     |     |       |
| 1,1-Dichloroethane             | 108-95-2   | < 33          | U | 330 | 33  | ug/Kg |
| 1,1-Dichloroethyl ether        | 111-44-4   | < 39          | U | 330 | 39  | ug/Kg |
| 1-Chlorophenol                 | 95-57-8    | < 37          | U | 330 | 37  | ug/Kg |
| 1,2-Dichlorobenzene            | 95-50-1    | < 33          | U | 330 | 33  | ug/Kg |
| 1,3-Dichlorobenzene            | 541-73-1   | < 39          | U | 330 | 39  | ug/Kg |
| 1,4-Dichlorobenzene            | 106-46-7   | < 33          | U | 330 | 33  | ug/Kg |
| 1-Ethylphenol                  | 95-48-7    | < 33          | U | 330 | 33  | ug/Kg |
| 1,2-oxybis(1-Chloropropane)    | 108-60-1   | < 33          | U | 330 | 33  | ug/Kg |
| 1-Methylphenols                | 106-44-5   | < 60          | U | 330 | 60  | ug/Kg |
| 1-Nitroso-di-n-propylamine     | 621-64-7   | < 33          | U | 330 | 33  | ug/Kg |
| 1,1,1-Tetrachloroethane        | 67-72-1    | < 37          | U | 330 | 37  | ug/Kg |
| 1,2-Dibenzene                  | 98-95-3    | < 33          | U | 330 | 33  | ug/Kg |
| 1,2-Dichlorophorone            | 78-59-1    | < 33          | U | 330 | 33  | ug/Kg |
| 1-Nitrophenol                  | 88-75-5    | < 37          | U | 330 | 37  | ug/Kg |
| 1,2-Dimethylphenol             | 105-67-9   | < 76          | U | 330 | 76  | ug/Kg |
| 1,1-Bis(2-Chloroethoxy)methane | 111-91-1   | < 33          | U | 330 | 33  | ug/Kg |
| 1,2-Dichlorophenol             | 120-83-2   | < 43          | U | 330 | 43  | ug/Kg |
| 1,1,1-Trichlorobenzene         | 120-82-1   | < 39          | U | 330 | 39  | ug/Kg |
| 1-Naphthalene                  | 91-20-3    | < 39          | U | 330 | 39  | ug/Kg |
| 1-Chloroaniline                | 106-47-8   | < 39          | U | 330 | 39  | ug/Kg |
| 1,2-Dichlorobutadiene          | 87-68-3    | < 50          | U | 330 | 50  | ug/Kg |
| 1-Chloro-3-methylphenol        | 59-50-7    | < 37          | U | 330 | 37  | ug/Kg |
| 1-Ethyl-naphthalene            | 91-57-6    | < 39          | U | 330 | 39  | ug/Kg |
| 1,2-Dichlorocyclopentadiene    | 77-47-4    | < 130         | U | 330 | 130 | ug/Kg |
| 1,4,6-Trichlorophenol          | 88-06-2    | < 33          | U | 330 | 33  | ug/Kg |
| 1,5-Trichlorophenol            | 95-95-4    | < 33          | U | 840 | 33  | ug/Kg |
| 1-Chloronaphthalene            | 91-58-7    | < 39          | U | 330 | 39  | ug/Kg |
| 1-Nitroaniline                 | 88-74-4    | < 33          | U | 840 | 33  | ug/Kg |
| 1-Ethylphthalate               | 131-11-3   | < 33          | U | 330 | 33  | ug/Kg |
| 1-Cenaphthylene                | 208-96-8   | < 39          | U | 330 | 39  | ug/Kg |
| 1-Dinitrotoluene               | 606-20-2   | < 33          | U | 330 | 33  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-04

Client ID: SP-6

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003166.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------|------------|---------------|---|-----|-----|-------|
|-----------|------------|---------------|---|-----|-----|-------|

## TARGETS

|                             |           |         |   |     |    |       |
|-----------------------------|-----------|---------|---|-----|----|-------|
| 4-Nitroaniline              | 99-09-2   | < 39    | U | 840 | 39 | ug/Kg |
| 1-Naphthene                 | 83-32-9   | < 39    | U | 330 | 39 | ug/Kg |
| 2,4-Dinitrophenol           | 51-28-5   | < 66 UJ | U | 840 | 66 | ug/Kg |
| 4-Nitrophenol               | 100-02-7  | < 37 UJ | U | 840 | 37 | ug/Kg |
| 2-Benzofuran                | 132-64-9  | < 33    | U | 330 | 33 | ug/Kg |
| 2,4-Dinitrotoluene          | 121-14-2  | < 37    | U | 330 | 37 | ug/Kg |
| 2-Bis(4-phthalate)          | 84-66-2   | < 33    | U | 330 | 33 | ug/Kg |
| 4-Chlorophenyl-phenylether  | 7005-72-3 | < 39    | U | 330 | 39 | ug/Kg |
| Fluorene                    | 86-73-7   | < 37    | U | 330 | 37 | ug/Kg |
| 4-Nitroaniline              | 100-01-6  | < 80    | U | 840 | 80 | ug/Kg |
| 2,6-Dinitro-2-methylphenol  | 534-52-1  | < 39    | U | 840 | 39 | ug/Kg |
| 4-Nitrosodiphenylamine      | 86-30-6   | < 66    | U | 330 | 66 | ug/Kg |
| 4-Methoxyphenyl-phenylether | 101-55-3  | < 43    | U | 330 | 43 | ug/Kg |
| Hexachlorobenzene           | 118-74-1  | < 37    | U | 330 | 37 | ug/Kg |
| 2,4-Dichlorophenol          | 87-86-5   | < 63    | U | 840 | 63 | ug/Kg |
| 1-Naphthene                 | 85-01-8   | < 33    | U | 330 | 33 | ug/Kg |
| Anthracene                  | 120-12-7  | < 43    | U | 330 | 43 | ug/Kg |
| Imidazole                   | 86-74-8   | < 14    | U | 330 | 14 | ug/Kg |
| 2-Nitrobutylphthalate       | 84-74-2   | < 39    | U | 330 | 39 | ug/Kg |
| Fluoranthene                | 206-44-0  | < 33    | U | 330 | 33 | ug/Kg |
| 1-Naphthene                 | 129-00-0  | < 33 UJ | U | 330 | 33 | ug/Kg |
| 2-Ethylbenzylphthalate      | 85-68-7   | < 33    | U | 330 | 33 | ug/Kg |
| 1,3-Dichlorobenzidine       | 91-94-1   | < 33    | U | 330 | 33 | ug/Kg |
| Benzo(a)anthracene          | 56-55-3   | < 33    | U | 330 | 33 | ug/Kg |
| Fluoranthene                | 218-01-9  | < 53    | U | 330 | 53 | ug/Kg |
| 2-Ethylhexylphthalate       | 117-81-7  | < 33    | U | 330 | 33 | ug/Kg |
| 2-Octylphthalate            | 117-84-0  | < 50    | U | 330 | 50 | ug/Kg |
| Benzo(b)fluoranthene        | 205-99-2  | < 33    | U | 330 | 33 | ug/Kg |
| Benzo(k)fluoranthene        | 207-08-9  | < 86    | U | 330 | 86 | ug/Kg |
| Benzo(a)pyrene              | 50-32-8   | < 50    | U | 330 | 50 | ug/Kg |
| Benzo(1,2,3-cd)pyrene       | 193-39-5  | < 53 UJ | U | 330 | 53 | ug/Kg |



SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-04

Client ID: SP-6

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/3/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003166.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

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| enzo(g,h,i)perylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| UROGATES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| phenol-d5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| benzene-d5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| fluorobiphenyl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 2,4,6-Tribromophenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| phenyl-d14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| TERNAL STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 1,2-Dichlorobenzene-d4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1,2,3,4-tetrahalobenzene-d8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 1,2,3,4-tetrahalobenzene-d10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 15067-26-2 | 484131          | 10.99           |          |     |          |
| 1,2,3,4-tetrahalobenzene-d10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1517-22-2  | 630309          | 13.72           |          |     |          |
| 1,2,3,4-tetrahalobenzene-d12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1719-03-5  | 502749          | 18.64           |          |     |          |
| 1,2,3,4-tetrahalobenzene-d12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1520-96-3  | 452016          | 21.09           |          |     |          |
| UTATIVE IDENTIFIED COMPOUNDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Caproic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 123422     | <del>1000</del> | <del>AB</del> U | 3.27     |     | ug/Kg    |
| Decanoic acid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 57103      | <del>520</del>  | <del>JB</del> U | 14.96    |     | ug/Kg    |
| 7,8,9,10-tetrahydro-2H-chromene, 7,7,8,8,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63,64,64,65,65,66,66,67,67,68,68,69,69,70,70,71,71,72,72,73,73,74,74,75,75,76,76,77,77,78,78,79,79,80,80,81,81,82,82,83,83,84,84,85,85,86,86,87,87,88,88,89,89,90,90,91,91,92,92,93,93,94,94,95,95,96,96,97,97,98,98,99,99,100,100,101,101,102,102,103,103,104,104,105,105,106,106,107,107,108,108,109,109,110,110,111,111,112,112,113,113,114,114,115,115,116,116,117,117,118,118,119,119,120,120,121,121,122,122,123,123,124,124,125,125,126,126,127,127,128,128,129,129,130,130,131,131,132,132,133,133,134,134,135,135,136,136,137,137,138,138,139,139,140,140,141,141,142,142,143,143,144,144,145,145,146,146,147,147,148,148,149,149,150,150,151,151,152,152,153,153,154,154,155,155,156,156,157,157,158,158,159,159,160,160,161,161,162,162,163,163,164,164,165,165,166,166,167,167,168,168,169,169,170,170,171,171,172,172,173,173,174,174,175,175,176,176,177,177,178,178,179,179,180,180,181,181,182,182,183,183,184,184,185,185,186,186,187,187,188,188,189,189,190,190,191,191,192,192,193,193,194,194,195,195,196,196,197,197,198,198,199,199,200,200,201,201,202,202,203,203,204,204,205,205,206,206,207,207,208,208,209,209,210,210,211,211,212,212,213,213,214,214,215,215,216,216,217,217,218,218,219,219,220,220,221,221,222,222,223,223,224,224,225,225,226,226,227,227,228,228,229,229,230,230,231,231,232,232,233,233,234,234,235,235,236,236,237,237,238,238,239,239,240,240,241,241,242,242,243,243,244,244,245,245,246,246,247,247,248,248,249,249,250,250,251,251,252,252,253,253,254,254,255,255,256,256,257,257,258,258,259,259,260,260,261,261,262,262,263,263,264,264,265,265,266,266,267,267,268,268,269,269,270,270,271,271,272,272,273,273,274,274,275,275,276,276,277,277,278,278,279,279,280,280,281,281,282,282,283,283,284,284,285,285,286,286,287,287,288,288,289,289,290,290,291,291,292,292,293,293,294,294,295,295,296,296,297,297,298,298,299,299,300,300,301,301,302,302,303,303,304,304,305,305,306,306,307,307,308,308,309,309,310,310,311,311,312,312,313,313,314,314,315,315,316,316,317,317,318,318,319,319,320,320,321,321,322,322,323,323,324,324,325,325,326,326,327,327,328,328,329,329,330,330,331,331,332,332,333,333,334,334,335,335,336,336,337,337,338,338,339,339,340,340,341,341,342,342,343,343,344,344,345,345,346,346,347,347,348,348,349,349,350,350,351,351,352,352,353,353,354,354,355,355,356,356,357,357,358,358,359,359,360,360,361,361,362,362,363,363,364,364,365,365,366,366,367,367,368,368,369,369,370,370,371,371,372,372,373,373,374,374,375,375,376,376,377,377,378,378,379,379,380,380,381,381,382,382,383,383,384,384,385,385,386,386,387,387,388,388,389,389,390,390,391,391,392,392,393,393,394,394,395,395,396,396,397,397,398,398,399,399,400,400,401,401,402,402,403,403,404,404,405,405,406,406,407,407,408,408,409,409,410,410,411,411,412,412,413,413,414,414,415,415,416,416,417,417,418,418,419,419,420,420,421,421,422,422,423,423,424,424,425,425,426,426,427,427,428,428,429,429,430,430,431,431,432,432,433,433,434,434,435,435,436,436,437,437,438,438,439,439,440,440,441,441,442,442,443,443,444,444,445,445,446,446,447,447,448,448,449,449,450,450,451,451,452,452,453,453,454,454,455,455,456,456,457,457,458,458,459,459,460,460,461,461,462,462,463,463,464,464,465,465,466,466,467,467,468,468,469,469,470,470,471,471,472,472,473,473,474,474,475,475,476,476,477,477,478,478,479,479,480,480,481,481,482,482,483,483,484,484,485,485,486,486,487,487,488,488,489,489,490,490,491,491,492,492,493,493,494,494,495,495,496,496,497,497,498,498,499,499,500,500,501,501,502,502,503,503,504,504,505,505,506,506,507,507,508,508,509,509,510,510,511,511,512,512,513,513,514,514,515,515,516,516,517,517,518,518,519,519,520,520,521,521,522,522,523,523,524,524,525,525,526,526,527,527,528,528,529,529,530,530,531,531,532,532,533,533,534,534,535,535,536,536,537,537,538,538,539,539,540,540,541,541,542,542,543,543,544,544,545,545,546,546,547,547,548,548,549,549,550,550,551,551,552,552,553,553,554,554,555,555,556,556,557,557,558,558,559,559,560,560,561,561,562,562,563,563,564,564,565,565,566,566,567,567,568,568,569,569,570,570,571,571,572,572,573,573,574,574,575,575,576,576,577,577,578,578,579,579,580,580,581,581,582,582,583,583,584,584,585,585,586,586,587,587,588,588,589,589,590,590,591,591,592,592,593,593,594,594,595,595,596,596,597,597,598,598,599,599,600,600,601,601,602,602,603,603,604,604,605,605,606,606,607,607,608,608,609,609,610,610,611,611,612,612,613,613,614,614,615,615,616,616,617,617,618,618,619,619,620,620,621,621,622,622,623,623,624,624,625,625,626,626,627,627,628,628,629,629,630,630,631,631,632,632,633,633,634,634,635,635,636,636,637,637,638,638,639,639,640,640,641,641,642,642,643,643,644,644,645,645,646,646,647,647,648,648,649,649,650,650,651,651,652,652,653,653,654,654,655,655,656,656,657,657,658,658,659,659,660,660,661,661,662,662,663,663,664,664,665,665,666,666,667,667,668,668,669,669,670,670,671,671,672,672,673,673,674,674,675,675,676,676,677,677,678,678,679,679,680,680,681,681,682,682,683,683,684,684,685,685,686,686,687,687,688,688,689,689,690,690,691,691,692,692,693,693,694,694,695,695,696,696,697,697,698,698,699,699,700,700,701,701,702,702,703,703,704,704,705,705,706,706,707,707,708,708,709,709,710,710,711,711,712,712,713,713,714,714,715,715,716,716,717,717,718,718,719,719,720,720,721,721,722,722,723,723,724,724,725,725,726,726,727,727,728,728,729,729,730,730,731,731,732,732,733,733,734,734,735,735,736,736,737,737,738,738,739,739,740,740,741,741,742,742,743,743,744,744,745,745,746,746,747,747,748,748,749,749,750,750,751,751,752,752,753,753,754,754,755,755,756,756,757,757,758,758,759,759,760,760,761,761,762,762,763,763,764,764,765,765,766,766,767,767,768,768,769,769,770,770,771,771,772,772,773,773,774,774,775,775,776,776,777,777,778,778,779,779,780,780,781,781,782,782,783,783,784,784,785,785,786,786,787,787,788,788,789,789,790,790,791,791,792,792,793,793,794,794,795,795,796,796,797,797,798,798,799,799,800,800,801,801,802,802,803,803,804,804,805,805,806,806,807,807,808,808,809,809,810,810,811,811,812,812,813,813,814,814,815,815,816,816,817,817,818,818,819,819,820,820,821,821,822,822,823,823,824,824,825,825,826,826,827,827,828,828,829,829,830,830,831,831,832,832,833,833,834,834,835,835,836,836,837,837,838,838,839,839,840,840,841,841,842,842,843,843,844,844,845,845,846,846,847,847,848,848,849,849,850,850,851,851,852,852,853,853,854,854,855,855,856,856,857,857,858,858,859,859,860,860,861,861,862,862,863,863,864,864,865,865,866,866,867,867,868,868,869,869,870,870,871,871,872,872,873,873,874,874,875,875,876,876,877,877,878,878,879,879,880,880,881,881,882,882,883,883,884,884,885,885,886,886,887,887,888,888,889,889,890,890,891,891,892,892,893,893,894,894,895,895,896,896,897,897,898,898,899,899,900,900,901,901,902,902,903,903,904,904,905,905,906,906,907,907,908,908,909,909,910,910,911,911,912,912,913,913,914,914,915,915,916,916,917,917,918,918,919,919,920,920,921,921,922,922,923,923,924,924,925,925,926,926,927,927,928,928,929,929,930,930,931,931,932,932,933,933,934,934,935,935,936,936,937,937,938,938,939,939,940,940,941,941,942,942,943,943,944,944,945,945,946,946,947,947,948,948,949,949,950,950,951,951,952,952,953,953,954,954,955,955,956,956,957,957,958,958,959,959,960,960,961,961,962,962,963,963,964,964,965,965,966,966,967,967,968,968,969,969,970,970,971,971,972,972,973,973,974,974,975,975,976,976,977,977,978,978,979,979,980,980,981,981,982,982,983,983,984,984,985,985,986,986,987,987,988,988,989,989,990,990,991,991,992,992,993,993,994,994,995,995,996,996,997,997,998,998,999,999,1000,1000,1001,1001,1002,1002,1003,1003,1004,1004,1005,1005,1006,1006,1007,1007,1008,1008,1009,1009,1010,1010,1011,1011,1012,1012,1013,1013,1014,1014,1015,1015,1016,1016,1017,1017,1018,1018,1019,1019,1020,1020,1021,1021,1022,1022,1023,1023,1024,1024,1025,1025,1026,1026,1027,1027,1028,1028,1029,1029,1030,1030,1031,1031,1032,1032,1033,1033,1034,1034,1035,1035,1036,1036,1037,1037,1038,1038,1039,1039,1040,1040,1041,1041,1042,1042,1043,1043,1044,1044,1045,1045,1046,1046,1047,1047,1048,1048,1049,1049,1050,1050,1051,1051,1052,1052,1053,1053,1054,1054,1055,1055,1056,1056,1057,1057,1058,1058,1059,1059,1060,1060,1061,1061,1062,1062,1063,1063,1064,1064,1065,1065,1066,1066,1067,1067,1068,1068,1069,1069,1070,1070,1071,1071,1072,1072,1073,1073,1074,1074,1075,1075,1076,1076,1077,1077,1078,1078,1079,1079,1080,1080,1081,1081,1082,1082,1083,1083,1084,1084,1085,1085,1086,1086,1087,1087,1088,1088,1089,1089,1090,1090,1091,1091,1092,1092,1093,1093,1094,1094,1095,1095,1096,1096,1097,1097,1098,1098,1099,1099,1100,1100,1101,1101,1102,1102,1103,1103,1104,1104,1105,1105,1106,1106,1107,1107,1108,1108,1109,1109,1110,1110,1111,1111,1112,1112,1113,1113,1114,1114,1115,1115,1116,1116,1117,1117,1118,1118,1119,1119,1120,1120,1121,1121,1122,1122,1123,1123,1124,1124,1125,1125,1126,1126,1127,1127,1128,1128,1129,1129,1130,1130,1131,1131,1132,1132,1133,1133,1134,1134,1135,1135,1136,1136,1137,1137,1138,1138,1139,1139,1140,1140,1141,1141,1142,1142,1143,1143,1144,1144,1145,1145,1146,1146,1147,1147,1148,1148,1149,1149,1150,1150,1151,1151,1152,1152,1153,1153,1154,1154,1155,1155,1156,1156,1157,1157,1158,1158,1159,1159,1160,1160,1161,1161,1162,1162,1163,1163,1164,1164,1165,1165,1166,1166,1167,1167,1168,1168,1169,1169,1170,1170,1171,1171,1172,1172,1173,1173,1174,1174,1175,1175,1176,1176,1177,1177,1178,1178,1179,1179,1180,1180,1181,1181,1182,1182,1183,1183,1184,1184,1185,1185,1186,1186,1187,1187,1188,1188,1189,1189,1190,1190,1191,1191,1192,1192,1193,1193,1194,1194,1195,1195,1196,1196,1197,1197,1198,1198,1199,1199,1200,1200,1201,1201,1202,1202,1203,1203,1204,1204,1205,1205,1206,1206,1207,1207,1208,1208,1209,1209,1210,1210,1211,1211,1212,1212,1213,1213,1214,1214,1215,1215,1216,1216,1217,1217,1218,1218,1219,1219,1220,1220,1221,1221,1222,1222,1223,1223,1224,1224,1225,1225,1226,1226,1227,1227,1228,1228,1229,1229,1230,1230,1231,1231,1232,1232,1233,1233,1234,1234,1235,1235,1236,1236,1237,1237,1238,1238,1239,1239,1240,1240,1241,1241,1242,1242,1243,1243,1244,1244,1245,1245,1246,1246,1247,1247,1248,1248,1249,1249,1250,1250,1251,1251,1252,1252,1253,1253,1254,1254,1255,1255,1256,1256,1257,1257,1258,1258,1259,1259,1260,1260,1261,1261,1262,1262,1263,1263,1264,1264,1265,1265,1266,1266,1267,1267,1268,1268,1269,1269,1270,1270,1271,1271,1272,1272,1273,1273,1274,1274,1275,12 |            |                 |                 |          |     |          |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-04RE

Client ID: SP-6RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003182.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                     |            |               |   |     |     |       |
| Alcohol                     | 108-95-2   | < 33          | U | 330 | 33  | ug/Kg |
| Bis(2-Chloroethyl)ether     | 111-44-4   | < 39          | U | 330 | 39  | ug/Kg |
| Chlorophenol                | 95-57-8    | < 37          | U | 330 | 37  | ug/Kg |
| Dichlorobenzene             | 95-50-1    | < 33          | U | 330 | 33  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 39          | U | 330 | 39  | ug/Kg |
| Dichlorobenzene             | 106-46-7   | < 33          | U | 330 | 33  | ug/Kg |
| 1-Ethylphenol               | 95-48-7    | < 33          | U | 330 | 33  | ug/Kg |
| 1,2-oxybis(1-Chloropropane) | 108-60-1   | < 33          | U | 330 | 33  | ug/Kg |
| Methylphenols               | 106-44-5   | < 60          | U | 330 | 60  | ug/Kg |
| Nitroso-di-n-propylamine    | 621-64-7   | < 33          | U | 330 | 33  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 37          | U | 330 | 37  | ug/Kg |
| 1,2-Dibenzene               | 98-95-3    | < 33          | U | 330 | 33  | ug/Kg |
| 1,4-Dichlorobenzene         | 78-59-1    | < 33          | U | 330 | 33  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 37          | U | 330 | 37  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 76          | U | 330 | 76  | ug/Kg |
| Bis(2-Chloroethoxy)methane  | 111-91-1   | < 33          | U | 330 | 33  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 43          | U | 330 | 43  | ug/Kg |
| 1,2,4-Trichlorobenzene      | 120-82-1   | < 39          | U | 330 | 39  | ug/Kg |
| 1-Naphthalene               | 91-20-3    | < 39          | U | 330 | 39  | ug/Kg |
| 2-Chloroaniline             | 106-47-8   | < 39          | U | 330 | 39  | ug/Kg |
| 1,4-Dichlorobutadiene       | 87-68-3    | < 50          | U | 330 | 50  | ug/Kg |
| 2-Chloro-3-methylphenol     | 59-50-7    | < 37          | U | 330 | 37  | ug/Kg |
| 1-Methylnaphthalene         | 91-57-6    | < 39          | U | 330 | 39  | ug/Kg |
| 1,2-Dichlorocyclopentadiene | 77-47-4    | < 130         | U | 330 | 130 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 33          | U | 330 | 33  | ug/Kg |
| 1,2,4-Trichlorophenol       | 95-95-4    | < 33          | U | 840 | 33  | ug/Kg |
| 1-Chloronaphthalene         | 91-58-7    | < 39          | U | 330 | 39  | ug/Kg |
| Nitroaniline                | 88-74-4    | < 33          | U | 840 | 33  | ug/Kg |
| 1-Methylphthalate           | 131-11-3   | < 33          | U | 330 | 33  | ug/Kg |
| 1-Cenaphthylene             | 208-96-8   | < 39          | U | 330 | 39  | ug/Kg |
| 1-Dinitrotoluene            | 606-20-2   | < 33          | U | 330 | 33  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-04RE

Client ID: SP-6RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003182.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                        | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                          |            |               |   |     |     |       |
| -roaniline                       | 99-09-2    | < 39          | U | 840 | 39  | ug/Kg |
| -acenaphthene                    | 83-32-9    | < 39          | U | 330 | 39  | ug/Kg |
| -2,4-Dinitrophenol               | 51-28-5    | < 66 UJ       | U | 840 | 66  | ug/Kg |
| -4-chlorophenol                  | 100-02-7   | < 37 UJ       | U | 840 | 37  | ug/Kg |
| -2-benzofuran                    | 132-64-9   | < 33          | U | 330 | 33  | ug/Kg |
| -2,4-Dinitrotoluene              | 121-14-2   | < 37          | U | 330 | 37  | ug/Kg |
| -diethylphthalate                | 84-66-2    | < 33          | U | 330 | 33  | ug/Kg |
| -Chlorophenyl-phenylether        | 7005-72-3  | < 39          | U | 330 | 39  | ug/Kg |
| -1-methyl-2-propylbenzene        | 86-73-7    | < 37          | U | 330 | 37  | ug/Kg |
| -4-troaniline                    | 100-01-6   | < 80          | U | 840 | 80  | ug/Kg |
| -2,6-Dinitro-2-methylphenol      | 534-52-1   | < 39          | U | 840 | 39  | ug/Kg |
| -4-nitrosodiphenylamine          | 86-30-6    | < 66          | U | 330 | 66  | ug/Kg |
| -4-bromophenyl-phenylether       | 101-55-3   | < 43          | U | 330 | 43  | ug/Kg |
| -hexachlorobenzene               | 118-74-1   | < 37          | U | 330 | 37  | ug/Kg |
| -2,4-dichlorophenol              | 87-86-5    | < 63          | U | 840 | 63  | ug/Kg |
| -phenanthrene                    | 85-01-8    | < 33          | U | 330 | 33  | ug/Kg |
| -fluoranthene                    | 120-12-7   | < 43          | U | 330 | 43  | ug/Kg |
| -benzazole                       | 86-74-8    | < 14          | U | 330 | 14  | ug/Kg |
| -di-n-butylphthalate             | 84-74-2    | < 39          | U | 330 | 39  | ug/Kg |
| -fluoranthene                    | 206-44-0   | < 33          | U | 330 | 33  | ug/Kg |
| -pyrene                          | 129-00-0   | < 33 UJ       | U | 330 | 33  | ug/Kg |
| -diethylbenzylphthalate          | 85-68-7    | < 33          | U | 330 | 33  | ug/Kg |
| -1,2-Dichlorobenzidine           | 91-94-1    | < 33          | U | 330 | 33  | ug/Kg |
| -2,9,10-trimethyl-6(a)anthracene | 56-55-3    | < 33          | U | 330 | 33  | ug/Kg |
| -fluoranthene                    | 218-01-9   | < 53          | U | 330 | 53  | ug/Kg |
| -diethylhexylphthalate           | 117-81-7   | < 33          | U | 330 | 33  | ug/Kg |
| -di-n-octyl phthalate            | 117-84-0   | < 50          | U | 330 | 50  | ug/Kg |
| -benzo(b)fluoranthene            | 205-99-2   | < 33          | U | 330 | 33  | ug/Kg |
| -benzo(k)fluoranthene            | 207-08-9   | < 86          | U | 330 | 86  | ug/Kg |
| -benzo(a)pyrene                  | 50-32-8    | < 50          | U | 330 | 50  | ug/Kg |
| -benzo(1,2,3-cd)pyrene           | 193-39-5   | < 53          | U | 330 | 53  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-04RE

Client ID: SP-6RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003182.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 2

Associated Blank: PB060303-23B

| Parameter                      | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|--------------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                 |            |               |       |          |     |          |
| 1,2,3-benz(a,h)anthracene      | 53-70-3    | < 50 UJ       | U     | 330      | 50  | ug/Kg    |
| 1,2,3,4-benz(a,h,i)perylene    | 191-24-2   | < 43 UJ       | U     | 330      | 43  | ug/Kg    |
| <b>PROGATES</b>                |            |               |       |          |     |          |
| 2,4,6-Trifluorophenol          | 367-12-4   | 241.22        | 80 %  | 25 - 121 |     | SPK: 300 |
| Phenol-d5                      | 13127-88-3 | 247.32        | 82 %  | 24 - 113 |     | SPK: 300 |
| 1,2,4-Trifluorobenzene-d5      | 4165-60-0  | 156.58        | 78 %  | 23 - 120 |     | SPK: 200 |
| 2,4,6-Trifluorobiphenyl        | 321-60-8   | 193.95        | 97 %  | 30 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol           | 118-79-6   | 314.6         | 105 % | 19 - 122 |     | SPK: 300 |
| 1,2,3,4-Tetrafluorophenyl-d14  | 1718-51-0  | 244.72        | 122 % | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>      |            |               |       |          |     |          |
| 1,2-Dichlorobenzene-d4         | 3855-82-1  | 226159        | 5.64  |          |     |          |
| 1,2,3,4-Tetrafluorobenzene-d8  | 1146-65-2  | 822417        | 7.79  |          |     |          |
| Acenaphthene-d10               | 15067-26-2 | 413369        | 10.98 |          |     |          |
| 1,2,3,4-Tetrafluorobenzene-d10 | 1517-22-2  | 541447        | 13.71 |          |     |          |
| Chrysene-d12                   | 1719-03-5  | 430411        | 18.63 |          |     |          |
| Perylene-d12                   | 1520-96-3  | 370491        | 21.08 |          |     |          |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-07     | Client ID:         | DUP-1      |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003173.D |
| Dilution:          | 10           | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.2         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 6          |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                   | CAS Number | Concentration | C | RDL  | MDL  | Units |
|-----------------------------|------------|---------------|---|------|------|-------|
| TARGETS                     |            |               |   |      |      |       |
| Toluene                     | 108-95-2   | < 350         | U | 3500 | 350  | ug/Kg |
| Diethylchloroethyl ether    | 111-44-4   | < 410         | U | 3500 | 410  | ug/Kg |
| Chlorophenol                | 95-57-8    | < 380         | U | 3500 | 380  | ug/Kg |
| Dichlorobenzene             | 95-50-1    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 410         | U | 3500 | 410  | ug/Kg |
| 1,4-Dichlorobenzene         | 106-46-7   | < 350         | U | 3500 | 350  | ug/Kg |
| 2,4-Dichlorophenol          | 95-48-7    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2-oxybis(1-Chloropropane) | 108-60-1   | < 350         | U | 3500 | 350  | ug/Kg |
| 1-Methylphenols             | 106-44-5   | < 630         | U | 3500 | 630  | ug/Kg |
| Nitroso-di-n-propylamine    | 621-64-7   | < 350         | U | 3500 | 350  | ug/Kg |
| Hexachloroethane            | 67-72-1    | < 380         | U | 3500 | 380  | ug/Kg |
| Benzene                     | 98-95-3    | < 350         | U | 3500 | 350  | ug/Kg |
| Chlorone                    | 78-59-1    | < 350         | U | 3500 | 350  | ug/Kg |
| 2-Nitrophenol               | 88-75-5    | < 380         | U | 3500 | 380  | ug/Kg |
| 2,4-Dimethylphenol          | 105-67-9   | < 800         | U | 3500 | 800  | ug/Kg |
| Diethylchloroethoxy methane | 111-91-1   | < 350         | U | 3500 | 350  | ug/Kg |
| 2,4-Dichlorophenol          | 120-83-2   | < 450         | U | 3500 | 450  | ug/Kg |
| 1,3,5-Trichlorobenzene      | 120-82-1   | < 410         | U | 3500 | 410  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 410         | U | 3500 | 410  | ug/Kg |
| 2-Chloroaniline             | 106-47-8   | < 410         | U | 3500 | 410  | ug/Kg |
| 1,4-Dichlorobutadiene       | 87-68-3    | < 520         | U | 3500 | 520  | ug/Kg |
| 2-Chloro-3-methylphenol     | 59-50-7    | < 380         | U | 3500 | 380  | ug/Kg |
| 1-Methylnaphthalene         | 91-57-6    | < 410         | U | 3500 | 410  | ug/Kg |
| 1,4-Dichlorocyclopentadiene | 77-47-4    | < 1300        | U | 3500 | 1300 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 350         | U | 3500 | 350  | ug/Kg |
| 2,4,5-Trichlorophenol       | 95-95-4    | < 350         | U | 8800 | 350  | ug/Kg |
| 1-Chloronaphthalene         | 91-58-7    | < 410         | U | 3500 | 410  | ug/Kg |
| 2-Nitroaniline              | 88-74-4    | < 350         | U | 8800 | 350  | ug/Kg |
| 1-Methylphthalate           | 131-11-3   | < 350         | U | 3500 | 350  | ug/Kg |
| 1-Indenaphthylene           | 208-96-8   | < 410         | U | 3500 | 410  | ug/Kg |
| 2,4-Dinitrotoluene          | 606-20-2   | < 350         | U | 3500 | 350  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-07

Client ID: DUP-1

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003173.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060303-23B

| Parameter                  | CAS Number | Concentration | C | RDL  | MDL | Units |
|----------------------------|------------|---------------|---|------|-----|-------|
| TARGETS                    |            |               |   |      |     |       |
| Nitroaniline               | 99-09-2    | < 410         | U | 8800 | 410 | ug/Kg |
| Benaphthene                | 83-32-9    | < 410         | U | 3500 | 410 | ug/Kg |
| 4-Dinitrophenol            | 51-28-5    | < 700 UJ      | U | 8800 | 700 | ug/Kg |
| Nitrophenol                | 100-02-7   | < 380 UJ      | U | 8800 | 380 | ug/Kg |
| Benzofuran                 | 132-64-9   | < 350         | U | 3500 | 350 | ug/Kg |
| 4-Dinitrotoluene           | 121-14-2   | < 380         | U | 3500 | 380 | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 350         | U | 3500 | 350 | ug/Kg |
| Chlorophenyl-phenylether   | 7005-72-3  | < 410         | U | 3500 | 410 | ug/Kg |
| Borene                     | 86-73-7    | < 380         | U | 3500 | 380 | ug/Kg |
| Nitroaniline               | 100-01-6   | < 840         | U | 8800 | 840 | ug/Kg |
| 2,6-Dinitro-2-methylphenol | 534-52-1   | < 410         | U | 8800 | 410 | ug/Kg |
| Nitrosodiphenylamine       | 86-30-6    | < 700         | U | 3500 | 700 | ug/Kg |
| Chlorophenyl-phenylether   | 101-55-3   | < 450         | U | 3500 | 450 | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 380         | U | 3500 | 380 | ug/Kg |
| 2,4-Dichlorophenol         | 87-86-5    | < 660         | U | 8800 | 660 | ug/Kg |
| Benanthrene                | 85-01-8    | < 350         | U | 3500 | 350 | ug/Kg |
| Anthracene                 | 120-12-7   | < 450         | U | 3500 | 450 | ug/Kg |
| Benzazole                  | 86-74-8    | < 140         | U | 3500 | 140 | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 410         | U | 3500 | 410 | ug/Kg |
| Fluoranthene               | 206-44-0   | < 350         | U | 3500 | 350 | ug/Kg |
| Benzene                    | 129-00-0   | < 350         | U | 3500 | 350 | ug/Kg |
| Diethylbenzylphthalate     | 85-68-7    | < 350         | U | 3500 | 350 | ug/Kg |
| Dichlorobenzidine          | 91-94-1    | < 350         | U | 3500 | 350 | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 350         | U | 3500 | 350 | ug/Kg |
| Benzofluorene              | 218-01-9   | < 560         | U | 3500 | 560 | ug/Kg |
| (2-Ethylhexyl)phthalate    | 117-81-7   | < 350         | U | 3500 | 350 | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 520         | U | 3500 | 520 | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 350 UJ      | U | 3500 | 350 | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 910 UJ      | U | 3500 | 910 | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 520 UJ      | U | 3500 | 520 | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 193-39-5   | < 560         | U | 3500 | 560 | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-07     | Client ID:         | DUP-1      |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003173.D |
| Dilution:          | 10           | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.2         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 6          |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter            | CAS Number | Concentration | C | RDL  | MDL | Units |
|----------------------|------------|---------------|---|------|-----|-------|
| <b>ARGETS</b>        |            |               |   |      |     |       |
| benz(a,h)anthracene  | 53-70-3    | < 530 UJ      | U | 3500 | 530 | ug/Kg |
| benzo(g,h,i)perylene | 191-24-2   | < 450 UJ      | U | 3500 | 450 | ug/Kg |

|                   |            |       |      |          |  |          |
|-------------------|------------|-------|------|----------|--|----------|
| <b>UROGATES</b>   |            |       |      |          |  |          |
| -Fluorophenol     | 367-12-4   | 193.1 | 64 % | 25 - 121 |  | SPK: 300 |
| -nol-d5           | 13127-88-3 | 198.7 | 66 % | 24 - 113 |  | SPK: 300 |
| -obenzene-d5      | 4165-60-0  | 127.1 | 64 % | 23 - 120 |  | SPK: 200 |
| -Fluorobiphenyl   | 321-60-8   | 131.5 | 66 % | 30 - 116 |  | SPK: 200 |
| -6-Tribromophenol | 118-79-6   | 199.6 | 67 % | 19 - 122 |  | SPK: 300 |
| -phenyl-d14       | 1718-51-0  | 153   | 77 % | 18 - 137 |  | SPK: 200 |

|                           |            |         |       |  |  |  |
|---------------------------|------------|---------|-------|--|--|--|
| <b>INTERNAL STANDARDS</b> |            |         |       |  |  |  |
| -Dichlorobenzene-d4       | 3855-82-1  | 311927  | 5.65  |  |  |  |
| -naphthalene-d8           | 1146-65-2  | 1171109 | 7.80  |  |  |  |
| -naphthene-d10            | 15067-26-2 | 586264  | 11.00 |  |  |  |
| -anthrene-d10             | 1517-22-2  | 807424  | 13.72 |  |  |  |
| -chrysene-d12             | 1719-03-5  | 619395  | 18.64 |  |  |  |
| -ylene-d12                | 1520-96-3  | 383699  | 21.10 |  |  |  |

|                                        |          |                |                 |       |  |       |
|----------------------------------------|----------|----------------|-----------------|-------|--|-------|
| <b>IDENTITIVE IDENTIFIED COMPOUNDS</b> |          |                |                 |       |  |       |
| -P                                     | 123422   | <del>960</del> | <del>AB</del> U | 3.26  |  | ug/Kg |
| -1-Biphenyl]-2-methanol                | 2928430  | 3000           | J               | 16.20 |  | ug/Kg |
| -isoquinoline, 1,2,3,4-tetrahydro-7-r  | 36646874 | 880            | J               | 22.61 |  | ug/Kg |

**SVOC**

SDG No.: R2673

Client: Nelson,Pope & Voorhis, LLC

Sample ID: R2673-07RE

Client ID: DUP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003187.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060303-23B

| Parameter                   | CAS Number | Concentration | C | RDL  | MDL  | Units |
|-----------------------------|------------|---------------|---|------|------|-------|
| <b>TARGETS</b>              |            |               |   |      |      |       |
| Alcohol                     | 108-95-2   | < 350         | U | 3500 | 350  | ug/Kg |
| Bis(2-Chloroethyl)ether     | 111-44-4   | < 420         | U | 3500 | 420  | ug/Kg |
| Chlorophenol                | 95-57-8    | < 390         | U | 3500 | 390  | ug/Kg |
| Dichlorobenzene             | 95-50-1    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,3-Dichlorobenzene         | 541-73-1   | < 420         | U | 3500 | 420  | ug/Kg |
| Dichlorobenzene             | 106-46-7   | < 350         | U | 3500 | 350  | ug/Kg |
| Methylphenol                | 95-48-7    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2-oxybis(1-Chloropropane) | 108-60-1   | < 350         | U | 3500 | 350  | ug/Kg |
| p-Methylphenols             | 106-44-5   | < 630         | U | 3500 | 630  | ug/Kg |
| Nitroso-di-n-propylamine    | 621-64-7   | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2-Dichloroethane          | 67-72-1    | < 390         | U | 3500 | 390  | ug/Kg |
| Toluene                     | 98-95-3    | < 350         | U | 3500 | 350  | ug/Kg |
| Phosphorane                 | 78-59-1    | < 350         | U | 3500 | 350  | ug/Kg |
| Nitrophenol                 | 88-75-5    | < 390         | U | 3500 | 390  | ug/Kg |
| Dimethylphenol              | 105-67-9   | < 810         | U | 3500 | 810  | ug/Kg |
| Bis(2-Chloroethoxy)methane  | 111-91-1   | < 350         | U | 3500 | 350  | ug/Kg |
| Dichlorophenol              | 120-83-2   | < 460         | U | 3500 | 460  | ug/Kg |
| 1,4-Trichlorobenzene        | 120-82-1   | < 420         | U | 3500 | 420  | ug/Kg |
| Naphthalene                 | 91-20-3    | < 420         | U | 3500 | 420  | ug/Kg |
| Chloroaniline               | 106-47-8   | < 420         | U | 3500 | 420  | ug/Kg |
| 1,2-Dichlorobutadiene       | 87-68-3    | < 530         | U | 3500 | 530  | ug/Kg |
| 2-Chloro-3-methylphenol     | 59-50-7    | < 390         | U | 3500 | 390  | ug/Kg |
| 1-Methylnaphthalene         | 91-57-6    | < 420         | U | 3500 | 420  | ug/Kg |
| 1,2-Dichlorocyclopentadiene | 77-47-4    | < 1300        | U | 3500 | 1300 | ug/Kg |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 350         | U | 3500 | 350  | ug/Kg |
| 2,5-Trichlorophenol         | 95-95-4    | < 350         | U | 3500 | 350  | ug/Kg |
| 1-Chloronaphthalene         | 91-58-7    | < 420         | U | 3500 | 420  | ug/Kg |
| Nitroaniline                | 88-74-4    | < 350         | U | 3500 | 350  | ug/Kg |
| 1-Methylphthalate           | 131-11-3   | < 350         | U | 3500 | 350  | ug/Kg |
| Benaphthylene               | 208-96-8   | < 420         | U | 3500 | 420  | ug/Kg |
| Dinitrotoluene              | 606-20-2   | < 350         | U | 3500 | 350  | ug/Kg |



## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-07RE

Client ID: DUP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003187.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060303-23B

| Parameter                  | CAS Number | Concentration | C | RDL  | MDL | Units |
|----------------------------|------------|---------------|---|------|-----|-------|
| TARGETS                    |            |               |   |      |     |       |
| Nitroaniline               | 99-09-2    | < 420         | U | 3500 | 420 | ug/Kg |
| Acenaphthene               | 83-32-9    | < 350         | U | 3500 | 350 | ug/Kg |
| 1,3-Dinitrophenol          | 51-28-5    | < 700         | U | 3500 | 700 | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 390         | U | 3500 | 390 | ug/Kg |
| 2,3-Dibenzofuran           | 132-64-9   | < 350         | U | 3500 | 350 | ug/Kg |
| 1,3-Dinitrotoluene         | 121-14-2   | < 390         | U | 3500 | 390 | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 350         | U | 3500 | 350 | ug/Kg |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 420         | U | 3500 | 420 | ug/Kg |
| Borene                     | 86-73-7    | < 390         | U | 3500 | 390 | ug/Kg |
| Nitroaniline               | 100-01-6   | < 850         | U | 3500 | 850 | ug/Kg |
| 2,6-Dinitro-2-methylphenol | 534-52-1   | < 420         | U | 3500 | 420 | ug/Kg |
| Nitrosodiphenylamine       | 86-30-6    | < 700         | U | 3500 | 700 | ug/Kg |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 460         | U | 3500 | 460 | ug/Kg |
| Hexachlorobenzene          | 118-74-1   | < 390         | U | 3500 | 390 | ug/Kg |
| 2,4-Dichlorophenol         | 87-86-5    | < 670         | U | 3500 | 670 | ug/Kg |
| Benanthrene                | 85-01-8    | < 350         | U | 3500 | 350 | ug/Kg |
| Fluoracene                 | 120-12-7   | < 460         | U | 3500 | 460 | ug/Kg |
| Quinazoline                | 86-74-8    | < 150         | U | 3500 | 150 | ug/Kg |
| Di-n-butylphthalate        | 84-74-2    | < 420         | U | 3500 | 420 | ug/Kg |
| Fluoranthene               | 206-44-0   | < 350         | U | 3500 | 350 | ug/Kg |
| Benzene                    | 129-00-0   | < 350         | U | 3500 | 350 | ug/Kg |
| Diethylbenzylphthalate     | 85-68-7    | < 350         | U | 3500 | 350 | ug/Kg |
| 1,2-Dichlorobenzidine      | 91-94-1    | < 350         | U | 3500 | 350 | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 350         | U | 3500 | 350 | ug/Kg |
| Fluoranthene               | 218-01-9   | < 560         | U | 3500 | 560 | ug/Kg |
| 2-Ethylhexylphthalate      | 117-81-7   | < 350         | U | 3500 | 350 | ug/Kg |
| Di-n-octyl phthalate       | 117-84-0   | < 530         | U | 3500 | 530 | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 350         | U | 3500 | 350 | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 920         | U | 3500 | 920 | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 530         | U | 3500 | 530 | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 193-39-5   | < 560         | U | 3500 | 560 | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-07RE

Client ID: DUP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003187.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060303-23B

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|------------|---------------|-------|----------|-----|----------|
| <b>PARAMETERS</b>         |            |               |       |          |     |          |
| Benzo(a,h)anthracene      | 53-70-3    | < 530 UJ      | U     | 3500     | 530 | ug/Kg    |
| Benzo(g,h,i)perylene      | 191-24-2   | < 460 UJ      | U     | 3500     | 460 | ug/Kg    |
| <b>PARAMETERS</b>         |            |               |       |          |     |          |
| 2-Fluorophenol            | 367-12-4   | 203.5         | 68 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                 | 13127-88-3 | 195.7         | 65 %  | 10 - 94  |     | SPK: 300 |
| Chlorobenzene-d5          | 4165-60-0  | 135.3         | 68 %  | 35 - 114 |     | SPK: 200 |
| 2-Fluorobiphenyl          | 321-60-8   | 136.3         | 68 %  | 43 - 116 |     | SPK: 200 |
| 2,6-Tribromophenol        | 118-79-6   | 188.2         | 63 %  | 10 - 123 |     | SPK: 300 |
| Phenyl-d14                | 1718-51-0  | 137.8         | 69 %  | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |          |
| 1,2-Dichlorobenzene-d4    | 3855-82-1  | 250814        | 5.64  |          |     |          |
| Naphthalene-d8            | 1146-65-2  | 925444        | 7.79  |          |     |          |
| Benaphthene-d10           | 15067-26-2 | 446778        | 10.98 |          |     |          |
| Benanthrene-d10           | 1517-22-2  | 582225        | 13.71 |          |     |          |
| Chrysene-d12              | 1719-03-5  | 448428        | 18.62 |          |     |          |
| Pyrene-d12                | 1520-96-3  | 353815        | 21.08 |          |     |          |

SVOC

SDG No.: R2673

Client: Nelson,Pope & Voorhis, LLC

Sample ID: R2673-08

Client ID: FIELDBLANK

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/2/03

Matrix: WATER

Date Extracted: 6/2/03

File ID: BE003144.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB060203-12B

| Parameter                   | CAS Number | Concentration | C | RDL | MDL | Units |
|-----------------------------|------------|---------------|---|-----|-----|-------|
| TARGETS                     |            |               |   |     |     |       |
| Alcohol                     | 108-95-2   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Bis(2-Chloroethyl)ether     | 111-44-4   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Chlorophenol                | 95-57-8    | < 1.1         | U | 10  | 1.1 | ug/L  |
| Dichlorobenzene             | 95-50-1    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene         | 541-73-1   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Dichlorobenzene             | 106-46-7   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Ethylphenol                 | 95-48-7    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,2-oxybis(1-Chloropropane) | 108-60-1   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Methylphenols               | 106-44-5   | < 1.9         | U | 10  | 1.9 | ug/L  |
| Nitroso-di-n-propylamine    | 621-64-7   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Hexachloroethane            | 67-72-1    | < 1.1         | U | 10  | 1.1 | ug/L  |
| Benzene                     | 98-95-3    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Sophorone                   | 78-59-1    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Nitrophenol                 | 88-75-5    | < 1.1         | U | 10  | 1.1 | ug/L  |
| Dimethylphenol              | 105-67-9   | < 2.4         | U | 10  | 2.4 | ug/L  |
| Bis(2-Chloroethoxy)methane  | 111-91-1   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Dichlorophenol              | 120-83-2   | < 1.4         | U | 10  | 1.4 | ug/L  |
| 1,4-Trichlorobenzene        | 120-82-1   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                 | 91-20-3    | < 1.2         | U | 10  | 1.2 | ug/L  |
| Chloroaniline               | 106-47-8   | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorobutadiene         | 87-68-3    | < 1.6         | U | 10  | 1.6 | ug/L  |
| 2-Chloro-3-methylphenol     | 59-50-7    | < 1.1         | U | 10  | 1.1 | ug/L  |
| Methylnaphthalene           | 91-57-6    | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorocyclopentadiene   | 77-47-4    | < 4.0         | U | 10  | 4.0 | ug/L  |
| 2,4,6-Trichlorophenol       | 88-06-2    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,5-Trichlorophenol         | 95-95-4    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1-Chloronaphthalene         | 91-58-7    | < 1.2         | U | 10  | 1.2 | ug/L  |
| Nitroaniline                | 88-74-4    | < 1.0         | U | 10  | 1.0 | ug/L  |
| Methylnaphthalate           | 131-11-3   | < 1.0         | U | 10  | 1.0 | ug/L  |
| Acenaphthylene              | 208-96-8   | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,3-Dinitrotoluene          | 606-20-2   | < 1.0         | U | 10  | 1.0 | ug/L  |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-08

Client ID: FIELDBLANK

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/2/03

Matrix: WATER

Date Extracted: 6/2/03

File ID: BE003144.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB060203-12B

| Parameter                  | CAS Number | Concentration | C | RDL | MDL   | Units |
|----------------------------|------------|---------------|---|-----|-------|-------|
| TARGETS                    |            |               |   |     |       |       |
| 4-Aminodiphenylamine       | 99-09-2    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Acenaphthene               | 83-32-9    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | 51-28-5    | < 2.1         | U | 10  | 2.1   | ug/L  |
| 2-Nitrophenol              | 100-02-7   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Dibenzofuran               | 132-64-9   | < 1.0         | U | 10  | 1.0   | ug/L  |
| 1,3-Dinitrotoluene         | 121-14-2   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Diethylphthalate           | 84-66-2    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 4-Chlorophenyl-phenylether | 7005-72-3  | < 1.2         | U | 10  | 1.2   | ug/L  |
| 1,3-Cyclohexadiene         | 86-73-7    | < 1.1         | U | 10  | 1.1   | ug/L  |
| 4-Nitroaniline             | 100-01-6   | < 2.5         | U | 10  | 2.5   | ug/L  |
| 2,6-Dinitro-2-methylphenol | 534-52-1   | < 1.2         | U | 10  | 1.2   | ug/L  |
| 4-Nitrosodiphenylamine     | 86-30-6    | < 2.1         | U | 10  | 2.1   | ug/L  |
| 4-Bromophenyl-phenylether  | 101-55-3   | < 1.4         | U | 10  | 1.4   | ug/L  |
| Hexachlorobenzene          | 118-74-1   | < 1.1         | U | 10  | 1.1   | ug/L  |
| 2,4-Dichlorophenol         | 87-86-5    | < 2.0         | U | 10  | 2.0   | ug/L  |
| Phenanthrene               | 85-01-8    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 1,2-Dichlorobenzene        | 120-12-7   | < 1.4         | U | 10  | 1.4   | ug/L  |
| Indazole                   | 86-74-8    | < 0.430       | U | 10  | 0.430 | ug/L  |
| Di-n-butylphthalate        | 84-74-2    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | 206-44-0   | < 1.0         | U | 10  | 1.0   | ug/L  |
| 1,2,3-Trichlorobenzene     | 129-00-0   | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3-Butylbenzylphthalate     | 85-68-7    | < 1.0         | U | 10  | 1.0   | ug/L  |
| 1,1-Dichlorobenzidine      | 91-94-1    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | 56-55-3    | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | 218-01-9   | < 1.7         | U | 10  | 1.7   | ug/L  |
| (2-Ethylhexyl)phthalate    | 117-81-7   | 1.5           | U | 10  | 1.0   | ug/L  |
| Di-n-octyl phthalate       | 117-84-0   | < 1.6         | U | 10  | 1.6   | ug/L  |
| Benzo(b)fluoranthene       | 205-99-2   | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | 207-08-9   | < 2.7         | U | 10  | 2.7   | ug/L  |
| Benzo(a)pyrene             | 50-32-8    | < 1.6         | U | 10  | 1.6   | ug/L  |
| Benzo(1,2,3-cd)pyrene      | 193-39-5   | < 1.7         | U | 10  | 1.7   | ug/L  |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-08

Client ID: FIELDBLANK

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/2/03

Matrix: WATER

Date Extracted: 6/2/03

File ID: BE003144.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 960.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB060203-12B

| Parameter                                | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|------------------------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                           |            |               |       |          |     |          |
| benz(a,h)anthracene                      | 53-70-3    | < 1.6         | U     | 10       | 1.6 | ug/L     |
| benzo(g,h,i)perylene                     | 191-24-2   | < 1.4         | U     | 10       | 1.4 | ug/L     |
| <b>PROGATES</b>                          |            |               |       |          |     |          |
| fluorophenol                             | 367-12-4   | 71.58         | 24 %  | 21 - 100 |     | SPK: 300 |
| phenol-d5                                | 13127-88-3 | 41.11         | 14 %  | 10 - 94  |     | SPK: 300 |
| obenzene-d5                              | 4165-60-0  | 124.41        | 62 %  | 35 - 114 |     | SPK: 200 |
| trifluorobiphenyl                        | 321-60-8   | 142.77        | 71 %  | 43 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol                       | 118-79-6   | 244.96        | 82 %  | 10 - 123 |     | SPK: 300 |
| phenyl-d14                               | 1718-51-0  | 90.77         | 45 %  | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>                |            |               |       |          |     |          |
| Dichlorobenzene-d4                       | 3855-82-1  | 341306        | 5.67  |          |     |          |
| naphthalene-d8                           | 1146-65-2  | 1252856       | 7.82  |          |     |          |
| acenaphthene-d10                         | 15067-26-2 | 671093        | 11.02 |          |     |          |
| anthrene-d10                             | 1517-22-2  | 974369        | 13.75 |          |     |          |
| chrysene-d12                             | 1719-03-5  | 747983        | 18.67 |          |     |          |
| ylene-d12                                | 1520-96-3  | 629017        | 21.13 |          |     |          |
| <b>QUANTITATIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |     |          |
| CP                                       | 123422     | 7.2 ND        | AD U  | 3.28     |     | ug/L     |
| adecanoic acid                           | 57103      | 4.3           | J J   | 14.97    |     | ug/L     |
| Propanamine, N,2-dimethyl-N-ni           | 2504189    | 8.8           | J     | 16.30    |     | ug/L     |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-10

Client ID: SP-7

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003171.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter                 | CAS Number | Concentration | C | RDL  | MDL | Units |
|---------------------------|------------|---------------|---|------|-----|-------|
| TARGETS                   |            |               |   |      |     |       |
| anol                      | 108-95-2   | < 61          | U | 610  | 61  | ug/Kg |
| is(2-Chloroethyl)ether    | 111-44-4   | < 72          | U | 610  | 72  | ug/Kg |
| Chlorophenol              | 95-57-8    | < 67          | U | 610  | 67  | ug/Kg |
| Dichlorobenzene           | 95-50-1    | < 61          | U | 610  | 61  | ug/Kg |
| 3-Dichlorobenzene         | 541-73-1   | < 72          | U | 610  | 72  | ug/Kg |
| Dichlorobenzene           | 106-46-7   | < 61          | U | 610  | 61  | ug/Kg |
| ethylphenol               | 95-48-7    | < 61          | U | 610  | 61  | ug/Kg |
| 2-oxybis(1-Chloropropane) | 108-60-1   | < 61          | U | 610  | 61  | ug/Kg |
| -Methylphenols            | 106-44-5   | < 110         | U | 610  | 110 | ug/Kg |
| Nitroso-di-n-propylamine  | 621-64-7   | < 61          | U | 610  | 61  | ug/Kg |
| hexachloroethane          | 67-72-1    | < 67          | U | 610  | 67  | ug/Kg |
| obenzene                  | 98-95-3    | < 61          | U | 610  | 61  | ug/Kg |
| horone                    | 78-59-1    | < 61          | U | 610  | 61  | ug/Kg |
| -Nitrophenol              | 88-75-5    | < 67          | U | 610  | 67  | ug/Kg |
| Dimethylphenol            | 105-67-9   | < 140         | U | 610  | 140 | ug/Kg |
| is(2-Chloroethoxy)methane | 111-91-1   | < 61          | U | 610  | 61  | ug/Kg |
| 4-Dichlorophenol          | 120-83-2   | < 79          | U | 610  | 79  | ug/Kg |
| 4-Trichlorobenzene        | 120-82-1   | < 72          | U | 610  | 72  | ug/Kg |
| aphthalene                | 91-20-3    | < 72          | U | 610  | 72  | ug/Kg |
| Chloroaniline             | 106-47-8   | < 72          | U | 610  | 72  | ug/Kg |
| achlorobutadiene          | 87-68-3    | < 91          | U | 610  | 91  | ug/Kg |
| Chloro-3-methylphenol     | 59-50-7    | < 67          | U | 610  | 67  | ug/Kg |
| ethylnaphthalene          | 91-57-6    | < 72          | U | 610  | 72  | ug/Kg |
| achlorocyclopentadiene    | 77-47-4    | < 230         | U | 610  | 230 | ug/Kg |
| 4,6-Trichlorophenol       | 88-06-2    | < 61          | U | 610  | 61  | ug/Kg |
| 5-Trichlorophenol         | 95-95-4    | < 61          | U | 1500 | 61  | ug/Kg |
| Chloronaphthalene         | 91-58-7    | < 72          | U | 610  | 72  | ug/Kg |
| Nitroaniline              | 88-74-4    | < 61          | U | 1500 | 61  | ug/Kg |
| ethylphthalate            | 131-11-3   | < 61          | U | 610  | 61  | ug/Kg |
| benaphthylene             | 208-96-8   | < 72          | U | 610  | 72  | ug/Kg |
| 5-Dinitrotoluene          | 606-20-2   | < 61          | U | 610  | 61  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10

Client ID: SP-7

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003171.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter                  | CAS Number | Concentration | C      | RDL  | MDL | Units |
|----------------------------|------------|---------------|--------|------|-----|-------|
| TARGETS                    |            |               |        |      |     |       |
| Aminoaniline               | 99-09-2    | < 72          | U      | 1500 | 72  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 72          | U      | 610  | 72  | ug/Kg |
| 1,3-Dinitrophenol          | 51-28-5    | < 120         | U      | 1500 | 120 | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 67          | U      | 1500 | 67  | ug/Kg |
| 2-Benzofuran               | 132-64-9   | < 61          | U      | 610  | 61  | ug/Kg |
| 1,3-Dinitrotoluene         | 121-14-2   | < 67          | U      | 610  | 67  | ug/Kg |
| 1,4-Dihydroxybenzene       | 84-66-2    | < 61          | U      | 610  | 61  | ug/Kg |
| 1-Chlorophenyl-phenylether | 7005-72-3  | < 72          | U      | 610  | 72  | ug/Kg |
| 1,2-Dichlorobenzene        | 86-73-7    | < 67          | U      | 610  | 67  | ug/Kg |
| 4-Aminoaniline             | 100-01-6   | < 150         | U      | 1500 | 150 | ug/Kg |
| 2,6-Dinitro-2-methylphenol | 534-52-1   | < 72          | U      | 1500 | 72  | ug/Kg |
| 4-Nitrosodiphenylamine     | 86-30-6    | < 120         | U      | 610  | 120 | ug/Kg |
| 1-Bromophenyl-phenylether  | 101-55-3   | < 79          | U      | 610  | 79  | ug/Kg |
| 1,2-Dichlorobenzene        | 118-74-1   | < 67          | U      | 610  | 67  | ug/Kg |
| 2,4-Dichlorophenol         | 87-86-5    | < 120         | U      | 1500 | 120 | ug/Kg |
| 1-Phenanthrene             | 85-01-8    | 650           |        | 610  | 61  | ug/Kg |
| 1-Fluoranthene             | 120-12-7   | < 79          | U      | 610  | 79  | ug/Kg |
| 1-Benzazole                | 86-74-8    | 170           | J      | 610  | 25  | ug/Kg |
| 1,4-Di-n-butylphthalate    | 84-74-2    | < 72          | U      | 610  | 72  | ug/Kg |
| 1-Phenanthrene             | 206-44-0   | 5500          | E      | 610  | 61  | ug/Kg |
| 1-Fluoranthene             | 129-00-0   | 3200          |        | 610  | 61  | ug/Kg |
| 1-Butylbenzylphthalate     | 85-68-7    | 370           | J      | 610  | 61  | ug/Kg |
| 1,2-Dichlorobenzidine      | 91-94-1    | < 61          | U      | 610  | 61  | ug/Kg |
| 1-Azo(a)anthracene         | 56-55-3    | 1400          |        | 610  | 61  | ug/Kg |
| 1-Fluoranthene             | 218-01-9   | 4300          |        | 610  | 97  | ug/Kg |
| 1,2-Ethylhexylphthalate    | 117-81-7   | 13000         | EB (2) | 610  | 61  | ug/Kg |
| 1,4-Di-n-octyl phthalate   | 117-84-0   | 140           | J      | 610  | 91  | ug/Kg |
| 1-Azo(b)fluoranthene       | 205-99-2   | 8000          | E      | 610  | 61  | ug/Kg |
| 1-Azo(k)fluoranthene       | 207-08-9   | 2700          |        | 610  | 160 | ug/Kg |
| 1-Azo(a)pyrene             | 50-32-8    | 890           |        | 610  | 91  | ug/Kg |
| 1-Azo(1,2,3-cd)pyrene      | 193-39-5   | 1200          |        | 610  | 97  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-10

Client ID: SP-7

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003171.D

Extraction: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter            | CAS Number | Concentration | C | RDL | MDL | Units |
|----------------------|------------|---------------|---|-----|-----|-------|
| TARGETS              |            |               |   |     |     |       |
| benz(a,h)anthracene  | 53-70-3    | < 92          | U | 610 | 92  | ug/Kg |
| benzo(g,h,i)perylene | 191-24-2   | 1100          |   | 610 | 79  | ug/Kg |

|                |            |        |       |          |  |          |
|----------------|------------|--------|-------|----------|--|----------|
| TROGATES       |            |        |       |          |  |          |
| Fluorophenol   | 367-12-4   | 234.19 | 78 %  | 25 - 121 |  | SPK: 300 |
| tol-d5         | 13127-88-3 | 235.27 | 78 %  | 24 - 113 |  | SPK: 300 |
| benzene-d5     | 4165-60-0  | 155.22 | 78 %  | 23 - 120 |  | SPK: 200 |
| Fluorobiphenyl | 321-60-8   | 224.86 | 112 % | 30 - 116 |  | SPK: 200 |
| Tribromophenol | 118-79-6   | 388.34 | 129 % | 19 - 122 |  | SPK: 300 |
| phenyl-d14     | 1718-51-0  | 193.82 | 97 %  | 18 - 137 |  | SPK: 200 |

|                    |            |        |       |  |  |  |
|--------------------|------------|--------|-------|--|--|--|
| INTERNAL STANDARDS |            |        |       |  |  |  |
| Dichlorobenzene-d4 | 3855-82-1  | 263913 | 5.65  |  |  |  |
| naphthalene-d8     | 1146-65-2  | 897028 | 7.80  |  |  |  |
| naphthene-d10      | 15067-26-2 | 360066 | 11.00 |  |  |  |
| anthrene-d10       | 1517-22-2  | 752243 | 13.74 |  |  |  |
| chrysene-d12       | 1719-03-5  | 919934 | 18.69 |  |  |  |
| ylene-d12          | 1520-96-3  | 662451 | 21.15 |  |  |  |

|                                     |          |      |   |       |  |       |
|-------------------------------------|----------|------|---|-------|--|-------|
| IDENTIFIED IDENTIFIED COMPOUNDS     |          |      |   |       |  |       |
| zenemethanamine, N,N-dimeth         | 103833   | 3200 | J | 12.94 |  | ug/Kg |
| anol, nonyl-                        | 25154523 | 1900 | J | 13.04 |  | ug/Kg |
| henol, 4-(1,1,3,3-tetramethylbutyl  | 140669   | 2000 | J | 13.37 |  | ug/Kg |
| anol, 2-[4-(1,1-dimethylethyl)pt    | 713462   | 4600 | J | 15.03 |  | ug/Kg |
| benzeneacetonitrile, alpha.-phenyl  | 86293    | 5500 | J | 15.12 |  | ug/Kg |
| ethanol, 2-[4-(1,1-dimethylethyl)pt | 713462   | 3500 | J | 15.19 |  | ug/Kg |
| phenylbenzonitrile                  | 2920389  | 2300 | J | 15.27 |  | ug/Kg |
| known                               |          | 2800 | J | 15.32 |  | ug/Kg |
| acetamide, N-methoxy-N-(3-oxo-3     | 0        | 3800 | J | 15.43 |  | ug/Kg |
| known                               |          | 1900 | J | 15.50 |  | ug/Kg |
| Decanamide, N-(2-hydroxyethyl)-     | 7726081  | 5100 | J | 16.33 |  | ug/Kg |
| known                               |          | 3300 | J | 17.00 |  | ug/Kg |
| anol, 2-[2-[4-(1,1,3,3-tetramethy   | 2315619  | 1600 | J | 17.18 |  | ug/Kg |



SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10

Client ID: SP-7

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003171.D

Dilution: 1

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter                            | CAS Number | Concentration | C | RDL   | MDL | Units |
|--------------------------------------|------------|---------------|---|-------|-----|-------|
| IDENTIFIED COMPOUNDS                 |            |               |   |       |     |       |
| Unknown                              |            | 7700          | J | 17.25 |     | ug/Kg |
| Unknown                              |            | 6000          | J | 17.28 |     | ug/Kg |
| Unknown                              |            | 17000         | J | 17.39 |     | ug/Kg |
| Unknown, 2-[2-[4-(1,1,3,3-tetramethy | 2315619    | 15000         | J | 17.49 |     | ug/Kg |
| Unknown                              |            | 8700          | J | 17.57 |     | ug/Kg |
| Unknown, N-(2-hydroxyethyl)-         | 7112029    | 4300          | J | 17.72 |     | ug/Kg |
| Unknown                              |            | 2000          | J | 18.09 |     | ug/Kg |
| Unknown                              |            | 3000          | J | 19.00 |     | ug/Kg |
| Unknown                              |            | 2600          | J | 19.05 |     | ug/Kg |
| Unknown                              |            | 6400          | J | 19.15 |     | ug/Kg |
| Unknown, 2-[2-[4-(1,1,3,3-tetramethy | 2315620    | 2700          | J | 19.23 |     | ug/Kg |
| Unknown                              |            | 1800          | J | 20.74 |     | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10DL

Client ID: SP-7DL

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003185.D

Dilution: 5

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter                     | CAS Number | Concentration | C  | RDL  | MDL  | Units |
|-------------------------------|------------|---------------|----|------|------|-------|
| TARGETS                       |            |               |    |      |      |       |
| 1,2-Dichloroethane            | 108-95-2   | < 300         | UD | 3000 | 300  | ug/Kg |
| 1,2-Dichloroethyl ether       | 111-44-4   | < 360         | UD | 3000 | 360  | ug/Kg |
| 1-Chlorophenol                | 95-57-8    | < 330         | UD | 3000 | 330  | ug/Kg |
| 1,2-Dichlorobenzene           | 95-50-1    | < 300         | UD | 3000 | 300  | ug/Kg |
| 1,3-Dichlorobenzene           | 541-73-1   | < 360         | UD | 3000 | 360  | ug/Kg |
| 1,4-Dichlorobenzene           | 106-46-7   | < 300         | UD | 3000 | 300  | ug/Kg |
| 2,4-Dichlorophenol            | 95-48-7    | < 300         | UD | 3000 | 300  | ug/Kg |
| 1,2-Oxybis(1-Chloropropane)   | 108-60-1   | < 300         | UD | 3000 | 300  | ug/Kg |
| 2,4,6-Trichlorophenols        | 106-44-5   | < 550         | UD | 3000 | 550  | ug/Kg |
| 1-Nitroso-di-n-propylamine    | 621-64-7   | < 300         | UD | 3000 | 300  | ug/Kg |
| Hexachloroethane              | 67-72-1    | < 330         | UD | 3000 | 330  | ug/Kg |
| 1,2-Dichlorobenzene           | 98-95-3    | < 300         | UD | 3000 | 300  | ug/Kg |
| 1,2,3-Trichlorobenzene        | 78-59-1    | < 300         | UD | 3000 | 300  | ug/Kg |
| 1-Nitrophenol                 | 88-75-5    | < 330         | UD | 3000 | 330  | ug/Kg |
| 2,4-Dimethylphenol            | 105-67-9   | < 700         | UD | 3000 | 700  | ug/Kg |
| 1,2-Bis(2-Chloroethoxy)ethane | 111-91-1   | < 300         | UD | 3000 | 300  | ug/Kg |
| 1,2-Dichlorophenol            | 120-83-2   | < 400         | UD | 3000 | 400  | ug/Kg |
| 1,2,4-Trichlorobenzene        | 120-82-1   | < 360         | UD | 3000 | 360  | ug/Kg |
| 1-Naphthalene                 | 91-20-3    | < 360         | UD | 3000 | 360  | ug/Kg |
| 1-Chloroaniline               | 106-47-8   | < 360         | UD | 3000 | 360  | ug/Kg |
| 1,2-Dichlorobutadiene         | 87-68-3    | < 460         | UD | 3000 | 460  | ug/Kg |
| 1-Chloro-3-methylphenol       | 59-50-7    | < 330         | UD | 3000 | 330  | ug/Kg |
| 1-Methylnaphthalene           | 91-57-6    | < 360         | UD | 3000 | 360  | ug/Kg |
| 1,2-Dichlorocyclopentadiene   | 77-47-4    | < 1200        | UD | 3000 | 1200 | ug/Kg |
| 1,4,6-Trichlorophenol         | 88-06-2    | < 300         | UD | 3000 | 300  | ug/Kg |
| 1,5-Trichlorophenol           | 95-95-4    | < 300         | UD | 7700 | 300  | ug/Kg |
| 1-Chloronaphthalene           | 91-58-7    | < 360         | UD | 3000 | 360  | ug/Kg |
| 1-Nitroaniline                | 88-74-4    | < 300         | UD | 7700 | 300  | ug/Kg |
| 1-Methylphthalate             | 131-11-3   | < 300         | UD | 3000 | 300  | ug/Kg |
| 1-Indenaphthylene             | 208-96-8   | < 360         | UD | 3000 | 360  | ug/Kg |
| 1-Dinitrotoluene              | 606-20-2   | < 300         | UD | 3000 | 300  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10DL

Client ID: SP-7DL

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003185.D

Dilution: 5

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter                 | CAS Number | Concentration | C  | RDL  | MDL | Units |
|---------------------------|------------|---------------|----|------|-----|-------|
| TARGETS                   |            |               |    |      |     |       |
| troaniline                | 99-09-2    | < 360 UJ      | UD | 7700 | 360 | ug/Kg |
| acenaphthene              | 83-32-9    | < 360         | UD | 3000 | 360 | ug/Kg |
| 4-Dinitrophenol           | 51-28-5    | < 610         | UD | 7700 | 610 | ug/Kg |
| trophenol                 | 100-02-7   | < 330         | UD | 7700 | 330 | ug/Kg |
| ibenzofuran               | 132-64-9   | < 300         | UD | 3000 | 300 | ug/Kg |
| Dinitrotoluene            | 121-14-2   | < 330         | UD | 3000 | 330 | ug/Kg |
| hylphthalate              | 84-66-2    | < 300         | UD | 3000 | 300 | ug/Kg |
| -Chlorophenyl-phenylether | 7005-72-3  | < 360         | UD | 3000 | 360 | ug/Kg |
| rene                      | 86-73-7    | < 330         | UD | 3000 | 330 | ug/Kg |
| troaniline                | 100-01-6   | < 730         | UD | 7700 | 730 | ug/Kg |
| ,6-Dinitro-2-methylphenol | 534-52-1   | < 360 UJ      | UD | 7700 | 360 | ug/Kg |
| itrosodiphenylamine       | 86-30-6    | < 610         | UD | 3000 | 610 | ug/Kg |
| omophenyl-phenylether     | 101-55-3   | < 400         | UD | 3000 | 400 | ug/Kg |
| hexachlorobenzene         | 118-74-1   | < 330         | UD | 3000 | 330 | ug/Kg |
| achlorophenol             | 87-86-5    | < 580         | UD | 7700 | 580 | ug/Kg |
| anthracene                | 85-01-8    | 520 J         | JD | 3000 | 300 | ug/Kg |
| anthracene                | 120-12-7   | < 400 UJ      | UD | 3000 | 400 | ug/Kg |
| pazole                    | 86-74-8    | < 120 UJ      | UD | 3000 | 120 | ug/Kg |
| di-n-butylphthalate       | 84-74-2    | < 360 UJ      | UD | 3000 | 360 | ug/Kg |
| ranthene                  | 206-44-0   | 4100 J        | D  | 3000 | 300 | ug/Kg |
| ene                       | 129-00-0   | 2400          | JD | 3000 | 300 | ug/Kg |
| butylbenzylphthalate      | 85-68-7    | 380           | JD | 3000 | 300 | ug/Kg |
| Dichlorobenzidine         | 91-94-1    | < 300         | UD | 3000 | 300 | ug/Kg |
| zo(a)anthracene           | 56-55-3    | 1100          | JD | 3000 | 300 | ug/Kg |
| hrysene                   | 218-01-9   | 3000          | JD | 3000 | 490 | ug/Kg |
| 2-Ethylhexyl)phthalate    | 117-81-7   | 13000         | JD | 3000 | 300 | ug/Kg |
| 1-octyl phthalate         | 117-84-0   | < 460         | UD | 3000 | 460 | ug/Kg |
| enzo(b)fluoranthene       | 205-99-2   | 5100          | D  | 3000 | 300 | ug/Kg |
| zo(k)fluoranthene         | 207-08-9   | 1400          | JD | 3000 | 790 | ug/Kg |
| enzo(a)pyrene             | 50-32-8    | 680           | JD | 3000 | 460 | ug/Kg |
| benzo(1,2,3-cd)pyrene     | 193-39-5   | 1700          | JD | 3000 | 490 | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

Sample ID: R2673-10DL

Client ID: SP-7DL

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003185.D

Dilution: 5

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Wol: 30.1

Extract Vol: 1000

Injection Vol: 2

% Moisture: 46

Associated Blank: PB060303-23B

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>            |            |               |       |          |     |          |
| benz(a,h)anthracene       | 53-70-3    | < 460         | UD    | 3000     | 460 | ug/Kg    |
| benzo(g,h,i)perylene      | 191-24-2   | 1500          | JD    | 3000     | 400 | ug/Kg    |
| <b>PROGATES</b>           |            |               |       |          |     |          |
| 2-chlorophenol            | 367-12-4   | 201.6         | 67 %  | 25 - 121 |     | SPK: 300 |
| phenol-d5                 | 13127-88-3 | 195.2         | 65 %  | 24 - 113 |     | SPK: 300 |
| 1,2-dibenzene-d5          | 4165-60-0  | 132.15        | 66 %  | 23 - 120 |     | SPK: 200 |
| 2-fluorobiphenyl          | 321-60-8   | 139.65        | 70 %  | 30 - 116 |     | SPK: 200 |
| 4,6-Tribromophenol        | 118-79-6   | 208.45        | 69 %  | 19 - 122 |     | SPK: 300 |
| phenyl-d14                | 1718-51-0  | 132.35        | 66 %  | 18 - 137 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |     |          |
| Dichlorobenzene-d4        | 3855-82-1  | 232316        | 5.64  |          |     |          |
| naphthalene-d8            | 1146-65-2  | 818950        | 7.79  |          |     |          |
| acenaphthene-d10          | 15067-26-2 | 355414        | 10.98 |          |     |          |
| anthrene-d10              | 1517-22-2  | 464073        | 13.71 |          |     |          |
| chrysene-d12              | 1719-03-5  | 549204        | 18.63 |          |     |          |
| ylene-d12                 | 1520-96-3  | 470164        | 21.10 |          |     |          |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson,Pope & Voorhis, LLC SDG No.: R2673 Method Type: SW846Sample ID: R2673-01Client ID: CP-1Contract: Nelson,Pope & Voorhis, LLC Lab Code: CHEMED Case No.:  SAS No.: R2673Matrix: SOIL Date Received: 5/30/2003 Level: LOW% Solids: 76

| CAS No.   | Analyte   | Concentration | Units   | C | Qual   | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|---------|---|--------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 10800         | J mg/Kg |   | N      | P  | 0.86 | P1            | P106063        |
| 7440-36-0 | Antimony  | 22.7          | mg/Kg   |   |        | P  | 0.30 | P1            | P106063        |
| 7440-38-2 | Arsenic   | 323           | mg/Kg   |   |        | P  | 0.34 | P1            | P106063        |
| 7440-39-3 | Barium    | 158           | mg/Kg   |   |        | P  | 0.18 | P1            | P106063        |
| 7440-41-7 | Beryllium | 0.53          | mg/Kg   | J |        | P  | 0.01 | P1            | P106063        |
| 7440-43-9 | Cadmium   | 7.2           | mg/Kg   |   |        | P  | 0.07 | P1            | P106063        |
| 7440-70-2 | Calcium   | 13700         | J mg/Kg |   | N      | P  | 3.0  | P1            | P106063        |
| 7440-47-3 | Chromium  | 58.4          | mg/Kg   |   |        | P  | 0.09 | P1            | P106063        |
| 7440-48-4 | Cobalt    | 206           | mg/Kg   |   |        | P  | 0.09 | P1            | P106063        |
| 7440-50-8 | Copper    | 4610          | mg/Kg   |   | N (22) | P  | 3.9  | P1            | P106063        |
| 7439-89-6 | Iron      | 211000        | mg/Kg   |   |        | P  | 42.1 | P1            | P106063        |
| 7439-92-1 | Lead      | 831           | J mg/Kg |   |        | P  | 0.24 | P1            | P106063        |
| 7439-95-4 | Magnesium | 4360          | mg/Kg   |   |        | P  | 1.8  | P1            | P106063        |
| 7439-96-5 | Manganese | 468           | mg/Kg   |   |        | P  | 0.01 | P1            | P106063        |
| 7439-97-6 | Mercury   | 0.04          | J mg/Kg |   | N      | CV | 0.01 | CV1           | 060503A        |
| 7440-02-0 | Nickel    | 28.8          | mg/Kg   |   |        | P  | 0.29 | P1            | P106063        |
| 7440-09-7 | Potassium | 3050          | mg/Kg   |   |        | P  | 4.7  | P1            | P106063        |
| 7782-49-2 | Selenium  | 2.9           | mg/Kg   |   |        | P  | 0.43 | P1            | P106063        |
| 7440-22-4 | Silver    | 2.3           | mg/Kg   |   |        | P  | 0.49 | P1            | P106063        |
| 7440-23-5 | Sodium    | 2440          | mg/Kg   |   |        | P  | 52.1 | P1            | P106063        |
| 7440-28-0 | Thallium  | 5.2           | mg/Kg   |   |        | P  | 0.76 | P1            | P106063        |
| 7440-62-2 | Vanadium  | 17.0          | mg/Kg   |   |        | P  | 0.13 | P1            | P106063        |
| 7440-66-6 | Zinc      | 9700          | J mg/Kg |   | N      | P  | 1.6  | P1            | P106063        |

P.7

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: R2673

Method Type: SW846

Sample ID: R2673-02

Client ID: SP-4

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: R2673

Matrix: SOIL

Date Received: 5/30/03

Level: LOW

% Solids: 98

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units   | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|---------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 9780          | J mg/Kg | J | N    | P  | 0.66 | PI            | P106063        |
| Antimony  | 7440-36-0 | 26.8          | mg/Kg   |   |      | P  | 0.23 | PI            | P106063        |
| Arsenic   | 7440-38-2 | 494           | mg/Kg   |   |      | P  | 0.27 | PI            | P106063        |
| Barium    | 7440-39-3 | 115           | mg/Kg   |   |      | P  | 0.14 | PI            | P106063        |
| Beryllium | 7440-41-7 | 0.39          | mg/Kg   | J |      | P  | 0.01 | PI            | P106063        |
| Cadmium   | 7440-43-9 | 10.5          | mg/Kg   |   |      | P  | 0.05 | PI            | P106063        |
| Calcium   | 7440-70-2 | 15600         | J mg/Kg | J | N    | P  | 2.3  | PI            | P106063        |
| Chromium  | 7440-47-3 | 71.3          | mg/Kg   |   |      | P  | 0.07 | PI            | P106063        |
| Cobalt    | 7440-48-4 | 283           | mg/Kg   |   |      | P  | 0.07 | PI            | P106063        |
| Copper    | 7440-50-8 | 6530          | mg/Kg   |   |      | P  | 3.1  | PI            | P106063        |
| Iron      | 7439-89-6 | 280000        | mg/Kg   |   |      | P  | 32.7 | PI            | P106063        |
| Lead      | 7439-92-1 | 908           | J mg/Kg |   |      | P  | 0.18 | PI            | P106063        |
| Magnesium | 7439-95-4 | 3300          | mg/Kg   |   |      | P  | 1.4  | PI            | P106063        |
| Manganese | 7439-96-5 | 352           | mg/Kg   |   |      | P  | 0.01 | PI            | P106063        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg   | U | N    | CV | 0.01 | CV1           | 060503A        |
| Nickel    | 7440-02-0 | 46.1          | mg/Kg   |   |      | P  | 0.22 | PI            | P106063        |
| Potassium | 7440-09-7 | 3370          | mg/Kg   |   |      | P  | 3.7  | PI            | P106063        |
| Selenium  | 7782-49-2 | 0.34          | mg/Kg   | U |      | P  | 0.34 | PI            | P106063        |
| Silver    | 7440-22-4 | 0.38          | mg/Kg   | U |      | P  | 0.38 | PI            | P106063        |
| Sodium    | 7440-23-5 | 4780          | mg/Kg   |   |      | P  | 40.4 | PI            | P106063        |
| Thallium  | 7440-28-0 | 4.4           | mg/Kg   |   |      | P  | 0.59 | PI            | P106063        |
| Vanadium  | 7440-62-2 | 0.10          | mg/Kg   | U |      | P  | 0.10 | PI            | P106063        |
| Zinc      | 7440-66-6 | 16100         | J mg/Kg | J | N    | P  | 1.2  | PI            | P106063        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: R2673

Method Type: SW846

Sample ID: R2673-03

Client ID: SP-5

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: R2673

Matrix: SOIL

Date Received: 5/30/03

Level: LOW

% Solids: 84

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 860 J         | mg/Kg | J | N    | P  | 0.77 | PI            | P106063        |
| Antimony  | 7440-36-0 | 0.27          | mg/Kg | U |      | P  | 0.27 | PI            | P106063        |
| Arsenic   | 7440-38-2 | 0.71          | mg/Kg | J |      | P  | 0.31 | PI            | P106063        |
| Barium    | 7440-39-3 | 5.1           | mg/Kg | J |      | P  | 0.17 | PI            | P106063        |
| Beryllium | 7440-41-7 | 0.10          | mg/Kg | J |      | P  | 0.01 | PI            | P106063        |
| Cadmium   | 7440-43-9 | 0.06          | mg/Kg | U |      | P  | 0.06 | PI            | P106063        |
| Calcium   | 7440-70-2 | 383 J         | mg/Kg | J | N    | P  | 2.7  | PI            | P106063        |
| Chromium  | 7440-47-3 | 3.9           | mg/Kg |   |      | P  | 0.08 | PI            | P106063        |
| Cobalt    | 7440-48-4 | 0.69          | mg/Kg | J |      | P  | 0.08 | PI            | P106063        |
| Copper    | 7440-50-8 | 3.9           | mg/Kg |   |      | P  | 0.18 | PI            | P106063        |
| Iron      | 7439-89-6 | 2240          | mg/Kg |   |      | P  | 1.9  | PI            | P106063        |
| Lead      | 7439-92-1 | 2.0 J         | mg/Kg |   |      | P  | 0.21 | PI            | P106063        |
| Magnesium | 7439-95-4 | 238           | mg/Kg | J |      | P  | 1.7  | PI            | P106063        |
| Manganese | 7439-96-5 | 33.2          | mg/Kg |   |      | P  | 0.01 | PI            | P106063        |
| Mercury   | 7439-97-6 | 0.01          | mg/Kg | U | N    | CV | 0.01 | CVI           | 060503A        |
| Nickel    | 7440-02-0 | 1.8           | mg/Kg | J |      | P  | 0.26 | PI            | P106063        |
| Potassium | 7440-09-7 | 136           | mg/Kg | J |      | P  | 4.3  | PI            | P106063        |
| Selenium  | 7782-49-2 | 0.65          | mg/Kg |   |      | P  | 0.39 | PI            | P106063        |
| Silver    | 7440-22-4 | 0.48          | mg/Kg | J |      | P  | 0.44 | PI            | P106063        |
| Sodium    | 7440-23-5 | 161           | mg/Kg | J |      | P  | 47.1 | PI            | P106063        |
| Thallium  | 7440-28-0 | 0.69          | mg/Kg | U |      | P  | 0.69 | PI            | P106063        |
| Vanadium  | 7440-62-2 | 2.7           | mg/Kg | J |      | P  | 0.12 | PI            | P106063        |
| Zinc      | 7440-66-6 | 16.9 J        | mg/Kg |   | N    | P  | 0.07 | PI            | P106063        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson,Pope &amp; Voorhis, LLC

SDG No.: R2673

Method Type: SW846

Sample ID: R2673-04

Client ID: SP-6

Contract: Nelson,Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: R2673

Matrix: SOIL

Date Received: 5/30/03

Level: LOW

% Solids: 98

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units   | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|---------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 777           | J mg/Kg |   | N    | P  | 0.66 | PI            | P106063        |
| Antimony  | 7440-36-0 | 0.28          | mg/Kg   | J |      | P  | 0.23 | PI            | P106063        |
| Arsenic   | 7440-38-2 | 0.28          | mg/Kg   | J |      | P  | 0.27 | PI            | P106063        |
| Barium    | 7440-39-3 | 5.3           | mg/Kg   | J |      | P  | 0.14 | PI            | P106063        |
| Beryllium | 7440-41-7 | 0.09          | mg/Kg   | J |      | P  | 0.01 | PI            | P106063        |
| Cadmium   | 7440-43-9 | 0.08          | mg/Kg   | J |      | P  | 0.05 | PI            | P106063        |
| Calcium   | 7440-70-2 | 409           | J mg/Kg | J | N    | P  | 2.3  | PI            | P106063        |
| Chromium  | 7440-47-3 | 2.0           | mg/Kg   |   |      | P  | 0.07 | PI            | P106063        |
| Cobalt    | 7440-48-4 | 0.43          | mg/Kg   | J |      | P  | 0.07 | PI            | P106063        |
| Copper    | 7440-50-8 | 24.7          | mg/Kg   |   |      | P  | 0.15 | PI            | P106063        |
| Iron      | 7439-89-6 | 1480          | mg/Kg   |   |      | P  | 1.6  | PI            | P106063        |
| Lead      | 7439-92-1 | 17.4          | J mg/Kg |   |      | P  | 0.18 | PI            | P106063        |
| Magnesium | 7439-95-4 | 180           | mg/Kg   | J |      | P  | 1.4  | PI            | P106063        |
| Manganese | 7439-96-5 | 11.0          | mg/Kg   |   |      | P  | 0.01 | PI            | P106063        |
| Mercury   | 7439-97-6 | 0.02          | J mg/Kg |   | N    | CV | 0.01 | CV1           | 060503A        |
| Nickel    | 7440-02-0 | 1.4           | mg/Kg   | J |      | P  | 0.22 | PI            | P106063        |
| Potassium | 7440-09-7 | 99.6          | mg/Kg   | J |      | P  | 3.7  | PI            | P106063        |
| Selenium  | 7782-49-2 | 0.40          | mg/Kg   | J |      | P  | 0.34 | PI            | P106063        |
| Silver    | 7440-22-4 | 0.38          | mg/Kg   | U |      | P  | 0.38 | PI            | P106063        |
| Sodium    | 7440-23-5 | 131           | mg/Kg   | J |      | P  | 40.4 | PI            | P106063        |
| Thallium  | 7440-28-0 | 0.59          | mg/Kg   | U |      | P  | 0.59 | PI            | P106063        |
| Vanadium  | 7440-62-2 | 2.2           | mg/Kg   | J |      | P  | 0.10 | PI            | P106063        |
| Zinc      | 7440-66-6 | 14.1          | J mg/Kg |   | N    | P  | 0.06 | PI            | P106063        |



## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson,Pope &amp; Voorhis, LLC

SDG No.: R2673

Method Type: SW846

Sample ID: R2673-07

Client ID: DUP-1

Contract: Nelson,Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: R2673

Matrix: SOIL

Date Received: 5/30/03

Level: LOW

% Solids: 94

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units   | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|---------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 4590          | J mg/Kg |   | N    | P  | 0.68 | PI            | P106063        |
| Antimony  | 7440-36-0 | 0.24          | mg/Kg   | U |      | P  | 0.24 | PI            | P106063        |
| Arsenic   | 7440-38-2 | 3.6           | mg/Kg   |   |      | P  | 0.27 | PI            | P106063        |
| Barium    | 7440-39-3 | 13.0          | mg/Kg   | J |      | P  | 0.15 | PI            | P106063        |
| Beryllium | 7440-41-7 | 0.17          | mg/Kg   | J |      | P  | 0.01 | PI            | P106063        |
| Cadmium   | 7440-43-9 | 0.14          | mg/Kg   | J |      | P  | 0.05 | PI            | P106063        |
| Calcium   | 7440-70-2 | 8250          | J mg/Kg |   | N    | P  | 2.4  | PI            | P106063        |
| Chromium  | 7440-47-3 | 5.1           | mg/Kg   |   |      | P  | 0.07 | PI            | P106063        |
| Cobalt    | 7440-48-4 | 2.5           | mg/Kg   | J |      | P  | 0.07 | PI            | P106063        |
| Copper    | 7440-50-8 | 8.0           | mg/Kg   |   |      | P  | 0.16 | PI            | P106063        |
| Iron      | 7439-89-6 | 5700          | mg/Kg   |   |      | P  | 1.7  | PI            | P106063        |
| Lead      | 7439-92-1 | 13.2          | J mg/Kg |   |      | P  | 0.19 | PI            | P106063        |
| Magnesium | 7439-95-4 | 4900          | mg/Kg   |   |      | P  | 1.5  | PI            | P106063        |
| Manganese | 7439-96-5 | 110           | mg/Kg   |   |      | P  | 0.01 | PI            | P106063        |
| Mercury   | 7439-97-6 | 0.04          | J mg/Kg |   | N    | CV | 0.01 | CVI           | 060503A        |
| Nickel    | 7440-02-0 | 4.7           | mg/Kg   |   |      | P  | 0.23 | PI            | P106063        |
| Potassium | 7440-09-7 | 229           | mg/Kg   | J |      | P  | 3.8  | PI            | P106063        |
| Selenium  | 7782-49-2 | 0.91          | mg/Kg   |   |      | P  | 0.35 | PI            | P106063        |
| Silver    | 7440-22-4 | 0.39          | mg/Kg   | U |      | P  | 0.39 | PI            | P106063        |
| Sodium    | 7440-23-5 | 147           | mg/Kg   | J |      | P  | 41.7 | PI            | P106063        |
| Thallium  | 7440-28-0 | 0.61          | mg/Kg   | U |      | P  | 0.61 | PI            | P106063        |
| Vanadium  | 7440-62-2 | 10.1          | mg/Kg   |   |      | P  | 0.11 | PI            | P106063        |
| Zinc      | 7440-66-6 | 42.6          | J mg/Kg |   | N    | P  | 0.06 | PI            | P106063        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: R2673

Method Type: SW846

Sample ID: R2673-10

Client ID: SP-7

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: R2673

Matrix: SOIL

Date Received: 5/30/03

Level: LOW

% Solids: 54

Sample Wt/Vol: 1.0

Final Vol: 100.0

| Analyte   | CAS No.   | Concentration | Units   | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|---------|---|------|----|------|---------------|----------------|
| Aluminum  | 7429-90-5 | 1390          | J mg/Kg |   | N    | P  | 1.2  | PI            | P106063        |
| Antimony  | 7440-36-0 | 0.90          | mg/Kg   | J |      | P  | 0.42 | PI            | P106063        |
| Arsenic   | 7440-38-2 | 2.0           | mg/Kg   |   |      | P  | 0.47 | PI            | P106063        |
| Barium    | 7440-39-3 | 89.5          | mg/Kg   |   |      | P  | 0.25 | PI            | P106063        |
| Beryllium | 7440-41-7 | 0.06          | mg/Kg   | J |      | P  | 0.01 | PI            | P106063        |
| Cadmium   | 7440-43-9 | 0.56          | mg/Kg   | J |      | P  | 0.09 | PI            | P106063        |
| Calcium   | 7440-70-2 | 2430          | J mg/Kg |   | N    | P  | 4.2  | PI            | P106063        |
| Chromium  | 7440-47-3 | 20.6          | mg/Kg   |   |      | P  | 0.13 | PI            | P106063        |
| Cobalt    | 7440-48-4 | 1.4           | mg/Kg   | J |      | P  | 0.13 | PI            | P106063        |
| Copper    | 7440-50-8 | 27.2          | mg/Kg   |   |      | P  | 0.27 | PI            | P106063        |
| Iron      | 7439-89-6 | 9090          | mg/Kg   |   |      | P  | 2.9  | PI            | P106063        |
| Lead      | 7439-92-1 | 59.9          | J mg/Kg |   |      | P  | 0.33 | PI            | P106063        |
| Magnesium | 7439-95-4 | 648           | mg/Kg   | J |      | P  | 2.5  | PI            | P106063        |
| Manganese | 7439-96-5 | 59.4          | mg/Kg   |   |      | P  | 0.02 | PI            | P106063        |
| Mercury   | 7439-97-6 | 0.02          | J mg/Kg |   | N    | CV | 0.02 | CV1           | 060503A        |
| Nickel    | 7440-02-0 | 9.6           | mg/Kg   |   |      | P  | 0.40 | PI            | P106063        |
| Potassium | 7440-09-7 | 250           | mg/Kg   | J |      | P  | 6.5  | PI            | P106063        |
| Selenium  | 7782-49-2 | 1.1           | mg/Kg   |   |      | P  | 0.60 | PI            | P106063        |
| Silver    | 7440-22-4 | 0.84          | mg/Kg   | J |      | P  | 0.67 | PI            | P106063        |
| Sodium    | 7440-23-5 | 253           | mg/Kg   | J |      | P  | 71.9 | PI            | P106063        |
| Thallium  | 7440-28-0 | 1.1           | mg/Kg   | U |      | P  | 1.1  | PI            | P106063        |
| Vanadium  | 7440-62-2 | 7.2           | mg/Kg   | J |      | P  | 0.18 | PI            | P106063        |
| Zinc      | 7440-66-6 | 132           | J mg/Kg |   | N    | P  | 0.11 | PI            | P106063        |

# CHAIN OF CUSTODY RECORD

heff treef intal NJ 12  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

CHEMTECH QUOTE NO.:

174073

## CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: NP&N  
ADDRESS: 572 WALK WINDHAM ROAD  
CITY: HECKENSACK STATE: NJ ZIP: 07747  
ATTENTION: Eric Arsen

PHONE: (609) 427-5665 FAX: (609) 427-5600

## DATA TURNAROUND INFORMATION

EX: \_\_\_\_\_ DAYS \*  
W/ID COPY: \_\_\_\_\_ DAYS \*  
DD: \_\_\_\_\_ DAYS \*

TO BE APPROVED BY CHEMTECH  
NORMAL TURNAROUND TIME - 14 DAYS

## PROJECT INFORMATION

PROJECT NAME: Corn Grounds  
PROJECT NO.: 01075 LOCATION: Heckensack  
PROJECT MANAGER: Eric Arsen  
E-MAIL: \_\_\_\_\_  
PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

## DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP  
☐ RESULTS + QC ☐ NYS ASP "B"  
☐ NJ REDUCED ☐ NYS ASP "A"  
☐ NJ CLP ☐ EDD  
☐ EDD FORMAT: \_\_\_\_\_

## BILLING INFORMATION

BILL TO: \_\_\_\_\_ PO #: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
ATTENTION: \_\_\_\_\_ PHONE: \_\_\_\_\_

## ANALYSIS

|      |      |      |   |   |   |   |   |   |
|------|------|------|---|---|---|---|---|---|
| 1    | 2    | 3    | 4 | 5 | 6 | 7 | 8 | 9 |
| 5260 | 6270 | 6010 |   |   |   |   |   |   |

| CHEMTECH<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |
| 1                        | CP-1                             | Soil             |                | ✓    | 5/29/03              | 0840 | 2            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 2                        | SP-4                             |                  |                | ✓    |                      | 1050 | 2            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 3                        | SP-5                             |                  |                | ✓    |                      | 1100 | 2            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 4                        | SP-6                             |                  |                | ✓    |                      | 1020 | 2            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 5, 6                     | SP-5 MS/MSD                      |                  |                | ✓    |                      | 1100 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 7                        | DUP-1                            | ✓                |                | ✓    |                      | 0815 | 2            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 8                        | FIELD BLANK                      | H <sub>2</sub> O |                |      | ✓                    | 0800 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 9                        | TRAP BLANK                       | H <sub>2</sub> O |                |      |                      |      | 2            | ✓             |   |   |   |   |   |   |   |   |          |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                |                                 |                                            |                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|---------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INQUIRED BY: <u>Eric Arsen</u> | DATE/TIME: <u>5/29/03/1330</u>  | RECEIVED BY: <u>1. _____</u>               | <p>Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input checked="" type="checkbox"/> Temp. of Cooler <u>4</u></p> <p>MeOH extractions requires an additional 4oz. jar for percent solid.</p> <p>Comments: _____</p>                                                    |
| INQUIRED BY: _____             | DATE/TIME: _____                | RECEIVED BY: <u>2. _____</u>               |                                                                                                                                                                                                                                                                                                                                                 |
| INQUIRED BY: <u>VPS</u>        | DATE/TIME: <u>10:00 5/30/03</u> | RECEIVED FOR LAB BY: <u>3. Sunny Peter</u> |                                                                                                                                                                                                                                                                                                                                                 |
| Page <u>1</u> of <u>2</u>      |                                 |                                            | <p>Shipped Via: Client <input type="checkbox"/> Hand Delivered <input checked="" type="checkbox"/> Overnight <input type="checkbox"/> Overnight <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight <input type="checkbox"/></p> <p>Shipment Complete <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> |

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

34397

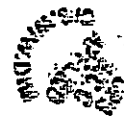


ERIC ARNESEN  
(631) 427-5665  
NELSON, POPE & VOORHIS, INC.  
572 WALT WHITMAN ROAD  
MELVILLE NY 11747-2109

30 LBS

1 OF 1

RS



SHIP TO:

SHIPPING DEPARTMENT  
(908) 789-8900

CHEMTECH CONSULTING  
284 SHEFFIELD STREET

MOUNTAINSIDE NJ 07092-2319



NJ 078 9-61



U/S GROUND

TRACKING #: 1Z A17 04V 90 4613 4754



BILLING: P/P  
DESC: BOTTLES  
RETURN SERVICE

*Shuts*  
5/30/02  
10:00

REF 1: CORAL GRAPHICS-NEW SOUTH ROAD

UOM 5.0.37 UPS Thermal 2 22.0A 04/2003

# Premier Environmental Services

## APPENDIX D

# CHEMTECH

June 23, 2003

Nelson, Pope & Voorhis, LLC  
572 Walt Whitman Road  
Melville, NY 11747

ATTN: Eric Arnesen

Re: Coral Graphics – New South Road  
Chemtech Project : R2673

Enclosed please find the forms for Semi-Volatile Organics. The units have been corrected. The pages have been renumbered. Please replace in the hard copy. An extra set of forms is provided. Please replace in the Analytical Results Summary.

We are extremely sorry for the inconvenience caused to you. Please do not hesitate to contact us if we can be of further service at 908-789-8900 ext. 204. We appreciate your patience in this matter.

Sincerely,



Krupa Dubey  
QA/QC

RECEIVED  
JUN 26 2003  
E.A.

# Chemtech Consulting Group

## SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-01RE   | Client ID:         | CP-1RE     |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003188.D |
| Dilution:          | 10           | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.4         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 24         |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                              | CAS Number | Concentration | C | RDL  | MDL  | Units |
|----------------------------------------|------------|---------------|---|------|------|-------|
| TARGETS                                |            |               |   |      |      |       |
| Phenol                                 | 108-95-2   | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2-Dichloroethyl ether                | 111-44-4   | < 520         | U | 4300 | 520  | ug/Kg |
| Chlorophenol                           | 95-57-8    | < 480         | U | 4300 | 480  | ug/Kg |
| 1,2-Dichlorobenzene                    | 95-50-1    | < 430         | U | 4300 | 430  | ug/Kg |
| 1,3-Dichlorobenzene                    | 541-73-1   | < 520         | U | 4300 | 520  | ug/Kg |
| 1,4-Dichlorobenzene                    | 106-46-7   | < 430         | U | 4300 | 430  | ug/Kg |
| 2-Methylphenol                         | 95-48-7    | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2-Dibromobis (1-Chloropropane)       | 108-60-1   | < 430         | U | 4300 | 430  | ug/Kg |
| 2,4-Dimethylphenols                    | 106-44-5   | < 780         | U | 4300 | 780  | ug/Kg |
| N-Nitroso-di-n-propylamine             | 621-64-7   | < 430         | U | 4300 | 430  | ug/Kg |
| 1,1-Dichloroethane                     | 67-72-1    | < 480         | U | 4300 | 480  | ug/Kg |
| 1,2-Dibromobenzene                     | 98-95-3    | < 430         | U | 4300 | 430  | ug/Kg |
| Sophorone                              | 78-59-1    | < 430         | U | 4300 | 430  | ug/Kg |
| 2,4-Dichlorophenol                     | 88-75-5    | < 480         | U | 4300 | 480  | ug/Kg |
| 2,6-Dimethylphenol                     | 105-67-9   | < 1000        | U | 4300 | 1000 | ug/Kg |
| 1,1-Dibromobis (2-Chloroethoxy)methane | 111-91-1   | < 430         | U | 4300 | 430  | ug/Kg |
| 2,4-Dichlorophenol                     | 120-83-2   | < 560         | U | 4300 | 560  | ug/Kg |
| 1,2,4-Trichlorobenzene                 | 120-82-1   | < 520         | U | 4300 | 520  | ug/Kg |
| 1,3-Dibromobenzene                     | 91-20-3    | < 520         | U | 4300 | 520  | ug/Kg |
| 2-Chloroaniline                        | 106-47-8   | < 520         | U | 4300 | 520  | ug/Kg |
| 1,2,3-Trichlorobutadiene               | 87-68-3    | < 650         | U | 4300 | 650  | ug/Kg |
| 2-Chloro-3-methylphenol                | 59-50-7    | < 480         | U | 4300 | 480  | ug/Kg |
| 1-Methylnaphthalene                    | 91-57-6    | < 520         | U | 4300 | 520  | ug/Kg |
| 1,2,3-Trichlorocyclopentadiene         | 77-47-4    | < 1600        | U | 4300 | 1600 | ug/Kg |
| 1,3,5-Trichlorophenol                  | 88-06-2    | < 430         | U | 4300 | 430  | ug/Kg |
| 1,3,5-Trichlorophenol                  | 95-95-4    | < 430         | U | 4300 | 430  | ug/Kg |
| 1-Chloronaphthalene                    | 91-58-7    | < 520         | U | 4300 | 520  | ug/Kg |
| 2-Nitroaniline                         | 88-74-4    | < 430         | U | 4300 | 430  | ug/Kg |
| 1-Methylnaphthalene                    | 131-11-3   | < 430         | U | 4300 | 430  | ug/Kg |
| 1-Naphthylthylene                      | 208-96-8   | < 520         | U | 4300 | 520  | ug/Kg |
| 1,3-Dinitrotoluene                     | 606-20-2   | < 430         | U | 4300 | 430  | ug/Kg |



## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-01RE

Client ID: CP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003188.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Vol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter                  | CAS Number | Concentration | C | RDL  | MDL  | Units |
|----------------------------|------------|---------------|---|------|------|-------|
| GETS                       |            |               |   |      |      |       |
| Paraoaniline               | 99-09-2    | < 520         | U | 4300 | 520  | ug/Kg |
| Acenaphthene               | 83-32-9    | < 430         | U | 4300 | 430  | ug/Kg |
| 4-Dinitrophenol            | 51-28-5    | < 870         | U | 4300 | 870  | ug/Kg |
| 2-Nitrophenol              | 100-02-7   | < 480         | U | 4300 | 480  | ug/Kg |
| 2-Hydroxofuran             | 132-64-9   | < 430         | U | 4300 | 430  | ug/Kg |
| 4-Dinitrotoluene           | 121-14-2   | < 480         | U | 4300 | 480  | ug/Kg |
| Diethylphthalate           | 84-66-2    | < 430         | U | 4300 | 430  | ug/Kg |
| Chlorophenyl-phenylether   | 7005-72-3  | < 520         | U | 4300 | 520  | ug/Kg |
| Chlorobenzene              | 86-73-7    | < 480         | U | 4300 | 480  | ug/Kg |
| Nitroaniline               | 100-01-6   | < 1000        | U | 4300 | 1000 | ug/Kg |
| 2,4-Dinitro-2-methylphenol | 534-52-1   | < 520         | U | 4300 | 520  | ug/Kg |
| 4-Toluidinediphenylamine   | 86-30-6    | < 870         | U | 4300 | 870  | ug/Kg |
| Bromophenyl-phenylether    | 101-55-3   | < 560         | U | 4300 | 560  | ug/Kg |
| 1,2-Dichlorobenzene        | 118-74-1   | < 480         | U | 4300 | 480  | ug/Kg |
| 2,4-Dichlorophenol         | 87-86-5    | < 820         | U | 4300 | 820  | ug/Kg |
| Benanthrene                | 85-01-8    | < 430         | U | 4300 | 430  | ug/Kg |
| Fluoranthene               | 120-12-7   | < 560         | U | 4300 | 560  | ug/Kg |
| 1,2,4-Triazole             | 86-74-8    | < 180         | U | 4300 | 180  | ug/Kg |
| n-Butylphthalate           | 84-74-2    | < 520         | U | 4300 | 520  | ug/Kg |
| Anthracene                 | 206-44-0   | < 430         | U | 4300 | 430  | ug/Kg |
| Chlorobenzene              | 129-00-0   | < 430         | U | 4300 | 430  | ug/Kg |
| Diethylbenzylphthalate     | 85-68-7    | < 430         | U | 4300 | 430  | ug/Kg |
| 1,2-Dichlorobenzidine      | 91-94-1    | < 430         | U | 4300 | 430  | ug/Kg |
| Benzo(a)anthracene         | 56-55-3    | < 430         | U | 4300 | 430  | ug/Kg |
| Chlorobenzene              | 218-01-9   | < 690         | U | 4300 | 690  | ug/Kg |
| Diethylhexylphthalate      | 117-81-7   | < 430         | U | 4300 | 430  | ug/Kg |
| n-Octyl phthalate          | 117-84-0   | < 650         | U | 4300 | 650  | ug/Kg |
| Benzo(b)fluoranthene       | 205-99-2   | < 430         | U | 4300 | 430  | ug/Kg |
| Benzo(k)fluoranthene       | 207-08-9   | < 1100        | U | 4300 | 1100 | ug/Kg |
| Benzo(a)pyrene             | 50-32-8    | < 650         | U | 4300 | 650  | ug/Kg |
| Benzo(1,2,3-cd)pyrene      | 193-39-5   | < 690         | U | 4300 | 690  | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-01RE

Client ID: CP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003188.D

Dilution: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Vol: 30.4

Extract Vol: 1000

Injection Vol: 2

% Moisture: 24

Associated Blank: PB060303-23B

| Parameter            | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|----------------------|------------|---------------|-------|----------|-----|----------|
| TARGETS              |            |               |       |          |     |          |
| benz(a,h)anthracene  | 53-70-3    | < 650         | U     | 4300     | 650 | ug/Kg    |
| benzo(g,h,i)perylene | 191-24-2   | < 560         | U     | 4300     | 560 | ug/Kg    |
| SURROGATES           |            |               |       |          |     |          |
| Fluorophenol         | 367-12-4   | 115.1         | 38 %  | 21 - 100 |     | SPK: 300 |
| tol-d5               | 13127-88-3 | 111.3         | 37 %  | 10 - 94  |     | SPK: 300 |
| benzene-d5           | 4165-60-0  | 76.9          | 38 %  | 35 - 144 |     | SPK: 200 |
| Fluorobiphenyl       | 321-60-8   | 73            | 37 %  | 43 - 116 |     | SPK: 200 |
| Tri-bromophenol      | 118-79-6   | 95.3          | 32 %  | 10 - 123 |     | SPK: 300 |
| phenyl-d14           | 1718-51-0  | 72.9          | 36 %  | 33 - 141 |     | SPK: 200 |
| INTERNAL STANDARDS   |            |               |       |          |     |          |
| Dichlorobenzene-d4   | 3855-82-1  | 250204        | 5.64  |          |     |          |
| phthalene-d8         | 1146-65-2  | 928473        | 7.79  |          |     |          |
| aphthene-d10         | 15067-26-2 | 468896        | 10.98 |          |     |          |
| anthrene-d10         | 1517-22-2  | 597229        | 13.71 |          |     |          |
| rysene-d12           | 1719-03-5  | 435129        | 18.62 |          |     |          |
| ene-d12              | 1520-96-3  | 323790        | 21.08 |          |     |          |

SVOC

DG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-07RE   | Client ID:         | DUP-IRE    |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003187.D |
| Dilution:          | 10           | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.2         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 6          |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                | CAS Number | Concentration | C | RDL  | MDL  | Units |
|--------------------------|------------|---------------|---|------|------|-------|
| Aromatics                |            |               |   |      |      |       |
| Phenol                   | 108-95-2   | < 350         | U | 3500 | 350  | ug/Kg |
| 1-Chloroethyl ether      | 111-44-4   | < 420         | U | 3500 | 420  | ug/Kg |
| 2-Chlorophenol           | 95-57-8    | < 390         | U | 3500 | 390  | ug/Kg |
| 1,2-Dichlorobenzene      | 95-50-1    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,3-Dichlorobenzene      | 541-73-1   | < 420         | U | 3500 | 420  | ug/Kg |
| 1,4-Dichlorobenzene      | 106-46-7   | < 350         | U | 3500 | 350  | ug/Kg |
| Methylphenol             | 95-48-7    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2-Dichloroethane       | 108-60-1   | < 350         | U | 3500 | 350  | ug/Kg |
| 4-Methylphenols          | 106-44-5   | < 630         | U | 3500 | 630  | ug/Kg |
| Nitroso-di-n-propylamine | 621-64-7   | < 350         | U | 3500 | 350  | ug/Kg |
| 1-Chloroethane           | 67-72-1    | < 390         | U | 3500 | 390  | ug/Kg |
| 1,2-Dichlorobenzene      | 98-95-3    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,3-Dichlorobenzene      | 78-59-1    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,4-Dichlorobenzene      | 88-75-5    | < 390         | U | 3500 | 390  | ug/Kg |
| 1,2-Dichlorobenzene      | 105-67-9   | < 810         | U | 3500 | 810  | ug/Kg |
| 1,3-Dichlorobenzene      | 111-91-1   | < 350         | U | 3500 | 350  | ug/Kg |
| 1,4-Dichlorobenzene      | 120-83-2   | < 460         | U | 3500 | 460  | ug/Kg |
| 1,2,4-Trichlorobenzene   | 120-82-1   | < 420         | U | 3500 | 420  | ug/Kg |
| 1,3,5-Trichlorobenzene   | 91-20-3    | < 420         | U | 3500 | 420  | ug/Kg |
| 1,4-Dichlorobenzene      | 106-47-8   | < 420         | U | 3500 | 420  | ug/Kg |
| 1,2,3-Trichlorobenzene   | 87-68-3    | < 530         | U | 3500 | 530  | ug/Kg |
| 1,2,4-Trichlorobenzene   | 59-50-7    | < 390         | U | 3500 | 390  | ug/Kg |
| 1,2,3-Trichlorobenzene   | 91-57-6    | < 420         | U | 3500 | 420  | ug/Kg |
| 1,2,4-Trichlorobenzene   | 77-47-4    | < 1300        | U | 3500 | 1300 | ug/Kg |
| 1,3,5-Trichlorobenzene   | 88-06-2    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2,4-Trichlorobenzene   | 95-95-4    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2,3-Trichlorobenzene   | 91-58-7    | < 420         | U | 3500 | 420  | ug/Kg |
| 1,4-Dichlorobenzene      | 88-74-4    | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2,3-Trichlorobenzene   | 131-11-3   | < 350         | U | 3500 | 350  | ug/Kg |
| 1,2,4-Trichlorobenzene   | 208-96-8   | < 420         | U | 3500 | 420  | ug/Kg |
| 1,3,5-Trichlorobenzene   | 606-20-2   | < 350         | U | 3500 | 350  | ug/Kg |

SVOC

SDG No.: R2673

Client: Nelson, Pope & Voorhis, LLC

|                    |              |                    |            |
|--------------------|--------------|--------------------|------------|
| Sample ID:         | R2673-07RE   | Client ID:         | DUP-1RE    |
| Date Collected:    | 5/29/03      | Date Received:     | 5/30/03    |
| Date Analyzed:     | 6/4/03       | Matrix:            | SOIL       |
| Date Extracted:    | 6/2/03       | File ID:           | BE003187.D |
| Dilution:          | 10           | Instrument ID:     | BNAE       |
| Analytical Method: | 8270         | Analytical Run ID: | BE051703   |
| Sample Wt/Wol:     | 30.2         | Extract Vol:       | 1000       |
| Injection Vol:     | 2            | % Moisture:        | 6          |
| Associated Blank:  | PB060303-23B |                    |            |

| Parameter                  | CAS Number | Concentration | C | RDL  | MDL | Units |
|----------------------------|------------|---------------|---|------|-----|-------|
| PGETS                      |            |               |   |      |     |       |
| Nitroaniline               | 99-09-2    | < 420         | U | 3500 | 420 | ug/Kg |
| Naphthalene                | 83-32-9    | < 350         | U | 3500 | 350 | ug/Kg |
| 2,4-Dinitrophenol          | 51-28-5    | < 700         | U | 3500 | 700 | ug/Kg |
| 4-Nitrophenol              | 100-02-7   | < 390         | U | 3500 | 390 | ug/Kg |
| 2-Benzofuran               | 132-64-9   | < 350         | U | 3500 | 350 | ug/Kg |
| 2,4-Dinitrotoluene         | 121-14-2   | < 390         | U | 3500 | 390 | ug/Kg |
| 2-Ethylphthalate           | 84-66-2    | < 350         | U | 3500 | 350 | ug/Kg |
| 2-Chlorophenyl-phenylether | 7005-72-3  | < 420         | U | 3500 | 420 | ug/Kg |
| 2-Chlorophenol             | 86-73-7    | < 390         | U | 3500 | 390 | ug/Kg |
| 4-Nitroaniline             | 100-01-6   | < 850         | U | 3500 | 850 | ug/Kg |
| 2,4-Dinitro-2-methylphenol | 534-52-1   | < 420         | U | 3500 | 420 | ug/Kg |
| 4-Nitrosodiphenylamine     | 86-30-6    | < 700         | U | 3500 | 700 | ug/Kg |
| 2-Bromophenyl-phenylether  | 101-55-3   | < 460         | U | 3500 | 460 | ug/Kg |
| 1,2-Dichlorobenzene        | 118-74-1   | < 390         | U | 3500 | 390 | ug/Kg |
| 2,4-Dichlorophenol         | 87-86-5    | < 670         | U | 3500 | 670 | ug/Kg |
| 1-Anthracene               | 85-01-8    | < 350         | U | 3500 | 350 | ug/Kg |
| 1-Naphthalene              | 120-12-7   | < 460         | U | 3500 | 460 | ug/Kg |
| 2-Benzoxazole              | 86-74-8    | < 150         | U | 3500 | 150 | ug/Kg |
| 1-Butylphthalate           | 84-74-2    | < 420         | U | 3500 | 420 | ug/Kg |
| 1-Naphthalene              | 206-44-0   | < 350         | U | 3500 | 350 | ug/Kg |
| 1-Naphthalene              | 129-00-0   | < 350         | U | 3500 | 350 | ug/Kg |
| 1-Benzylphthalate          | 85-68-7    | < 350         | U | 3500 | 350 | ug/Kg |
| 1,2-Dichlorobenzidine      | 91-94-1    | < 350         | U | 3500 | 350 | ug/Kg |
| 1-Azo(a)anthracene         | 56-55-3    | < 350         | U | 3500 | 350 | ug/Kg |
| 1-Naphthalene              | 218-01-9   | < 560         | U | 3500 | 560 | ug/Kg |
| 1,2-Ethylhexylphthalate    | 117-81-7   | < 350         | U | 3500 | 350 | ug/Kg |
| 1-N-octyl phthalate        | 117-84-0   | < 530         | U | 3500 | 530 | ug/Kg |
| 1-Azo(b)fluoranthene       | 205-99-2   | < 350         | U | 3500 | 350 | ug/Kg |
| 1-Azo(k)fluoranthene       | 207-08-9   | < 920         | U | 3500 | 920 | ug/Kg |
| 1-Azo(a)pyrene             | 50-32-8    | < 530         | U | 3500 | 530 | ug/Kg |
| 1-Naphtho(1,2,3-cd)pyrene  | 193-39-5   | < 560         | U | 3500 | 560 | ug/Kg |

## SVOC

SDG No.: R2673

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: R2673-07RE

Client ID: DUP-1RE

Date Collected: 5/29/03

Date Received: 5/30/03

Date Analyzed: 6/4/03

Matrix: SOIL

Date Extracted: 6/2/03

File ID: BE003187.D

Injection: 10

Instrument ID: BNAE

Analytical Method: 8270

Analytical Run ID: BE051703

Sample Wt/Vol: 30.2

Extract Vol: 1000

Injection Vol: 2

% Moisture: 6

Associated Blank: PB060303-23B

| Parameter            | CAS Number | Concentration | C     | RDL      | MDL | Units    |
|----------------------|------------|---------------|-------|----------|-----|----------|
| GETS                 |            |               |       |          |     |          |
| Benzo(a,h)anthracene | 53-70-3    | < 530         | U     | 3500     | 530 | ug/Kg    |
| Benzo(g,h,i)perylene | 191-24-2   | < 460         | U     | 3500     | 460 | ug/Kg    |
| ROGATES              |            |               |       |          |     |          |
| Fluorophenol         | 367-12-4   | 203.5         | 68 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5            | 13127-88-3 | 195.7         | 65 %  | 10 - 94  |     | SPK: 300 |
| Chlorobenzene-d5     | 4165-60-0  | 135.3         | 68 %  | 35 - 114 |     | SPK: 200 |
| Fluorobiphenyl       | 321-60-8   | 136.3         | 68 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol | 118-79-6   | 188.2         | 63 %  | 10 - 123 |     | SPK: 300 |
| Phenyl-d14           | 1718-51-0  | 137.8         | 69 %  | 33 - 141 |     | SPK: 200 |
| INTERNAL STANDARDS   |            |               |       |          |     |          |
| Dichlorobenzene-d4   | 3855-82-1  | 250814        | 5.64  |          |     |          |
| Phthalene-d8         | 1146-65-2  | 925444        | 7.79  |          |     |          |
| Phenanthrene-d10     | 15067-26-2 | 446778        | 10.98 |          |     |          |
| Anthracene-d10       | 1517-22-2  | 582225        | 13.71 |          |     |          |
| Pyrene-d12           | 1719-03-5  | 448428        | 18.62 |          |     |          |
| Benzo(a)pyrene-d12   | 1520-96-3  | 353815        | 21.08 |          |     |          |

# Premier Environmental Services

June 3 2004

Kurt Hummler  
Chemtech Consulting Group  
284 Sheffield Street  
Mountainside, NJ 07092

Dear Mr. Hummler,

Premier Environmental Services is performing the data review for the samples collected at the Coral Graphics-New South Road Project. The samples were collected in February, 2004. Below are questions associated with the cited data set. I have organized the questions for ease of review by either the project manager or QA Officer.

## Project R2673 - TAL Metals

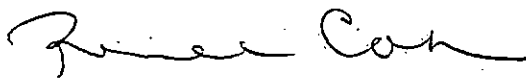
Sample CP-1 was analyzed in an ICP sequence on June 6, 2003. The Run log (Form 14) indicates that sample SP-4 and CP-1 were reanalyzed at a 1:20 DL due to the concentration of Copper, Iron and Zinc in the sample. Sample SP-4 was reported from the 1:20 DL for each of these analytes. The result form (p.7) of sample CP-1 reports the results of Copper from the initial analysis although the Copper result exceeds the linear range based on the data in the report. The 1:20 result is within the linear range, however, Copper is not marked on the Form 14 in the 1:20 run. The 1:20 result should be 4607 ppm. Please review the sample result and detection limit of Copper in sample CP-1. Please comment and revise/update if necessary.

In addition sample CP-1 and sample DUP-1 are field duplicate samples. The duplicate data is not comparable. Even using acceptable variance due to soil samples in general, was there any notation regarding the soil type/composition that could account for the wide RPD's between the TAL metal sample results. Please note the variation in the %Total Solids data in the duplicate field samples.

Percent Solids raw data was not provided in this data report. Can you please forward this information for review?

Thank you in advance for your prompt response to these data issues. If there are any additional questions associated with this data set, please do not hesitate to contact me at 516-223-9761.

Sincerely,



Renee Cohen

Cc: Eric Arnesen - Pope, Nelson and Voorhis



284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

June 4, 2004

Renee Cohen  
Premier Environmental Services  
2815 Covered Bridge Road  
Merrick, New York 11566

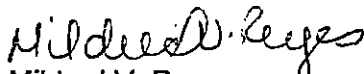
Re: R2673

Enclosed please find the corrections you requested for CP-1 sample for the above referenced project.

In reference to the difference in results between CP-1 and DUP-1. The analyst said that the samples were not the same in appearance. The percent solids confirm this information.

Please do not hesitate to contact me if you require any further information at 908-789-8900, ext. 208.

Sincerely,

  
Mildred V. Reyes  
QA Officer

A FULL SERVICE ENVIRONMENTAL LABORATORY

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson,Pope &amp; Voorhis, LLC

SDG No.: R2673

Method Type: SW846

Sample ID: R2673-01

Client ID: CP-1

Contract: Nelson,Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: R2673

Matrix: SOIL

Date Received: 5/30/2003

Level: LOW

% Solids: 76

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 10800         | mg/Kg |   | N    | P  | 0.86 | P1            | P106063        |
| 7440-36-0 | Antimony  | 22.7          | mg/Kg |   |      | P  | 0.30 | P1            | P106063        |
| 7440-38-2 | Arsenic   | 323           | mg/Kg |   |      | P  | 0.34 | P1            | P106063        |
| 7440-39-3 | Barium    | 158           | mg/Kg |   |      | P  | 0.18 | P1            | P106063        |
| 7440-41-7 | Beryllium | 0.53          | mg/Kg | J |      | P  | 0.01 | P1            | P106063        |
| 7440-43-9 | Cadmium   | 7.2           | mg/Kg |   |      | P  | 0.07 | P1            | P106063        |
| 7440-70-2 | Calcium   | 13700         | mg/Kg |   | N    | P  | 3.0  | P1            | P106063        |
| 7440-47-3 | Chromium  | 58.4          | mg/Kg |   |      | P  | 0.09 | P1            | P106063        |
| 7440-48-4 | Cobalt    | 206           | mg/Kg |   |      | P  | 0.09 | P1            | P106063        |
| 7440-50-8 | Copper    | 4610          | mg/Kg |   | N    | P  | 3.9  | P1            | P106063        |
| 7439-89-6 | Iron      | 211000        | mg/Kg |   |      | P  | 42.1 | P1            | P106063        |
| 7439-92-1 | Lead      | 831           | mg/Kg |   |      | P  | 0.24 | P1            | P106063        |
| 7439-95-4 | Magnesium | 4360          | mg/Kg |   |      | P  | 1.8  | P1            | P106063        |
| 7439-96-5 | Manganese | 468           | mg/Kg |   |      | P  | 0.01 | P1            | P106063        |
| 7439-97-6 | Mercury   | 0.04          | mg/Kg |   | N    | CV | 0.01 | CV1           | 060503A        |
| 7440-02-0 | Nickel    | 28.8          | mg/Kg |   |      | P  | 0.29 | P1            | P106063        |
| 7440-09-7 | Potassium | 3050          | mg/Kg |   |      | P  | 4.7  | P1            | P106063        |
| 7782-49-2 | Selenium  | 2.9           | mg/Kg |   |      | P  | 0.43 | P1            | P106063        |
| 7440-22-4 | Silver    | 2.3           | mg/Kg |   |      | P  | 0.49 | P1            | P106063        |
| 7440-23-5 | Sodium    | 2440          | mg/Kg |   |      | P  | 52.1 | P1            | P106063        |
| 7440-28-0 | Thallium  | 5.2           | mg/Kg |   |      | P  | 0.76 | P1            | P106063        |
| 7440-62-2 | Vanadium  | 17.0          | mg/Kg |   |      | P  | 0.13 | P1            | P106063        |
| 7440-66-6 | Zinc      | 9700          | mg/Kg |   | N    | P  | 1.6  | P1            | P106063        |



METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson.Pope & Voorhis, LLC      SDG No.: R2673      Method Type: SW846

Color Before: BROWN      Clarity Before: \_\_\_\_\_      Texture: MEDIUM

Color After: YELLOW      Clarity After: \_\_\_\_\_      Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## METALS

14

## ANALYSIS RUN LOG

Client: Nelson, Pope &amp; Voorhis, LLC

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.: \_\_\_\_\_

SAS No.: R2673 SDG No.: R2673

Instrument ID Number: P1

Method: P

Run Number: P106063

Start Date: 6/6/2003

End Date: 6/6/2003

| EPA<br>Sample<br>No. | D/F   | Time | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|-------|------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      |       |      |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>S | S<br>E | A<br>G | N<br>A | T<br>L | V<br>L | Z<br>N | C<br>N |
| CCV                  | 1.00  | 1344 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| CCB                  | 1.00  | 1347 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| ZZZZZZ               | 1.00  | 1349 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1352 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1354 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1357 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1359 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1401 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1403 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1405 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| CP-1                 | 1.00  | 1408 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      |        |        | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      |        |        |
| SP-4                 | 1.00  | 1410 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      |        |        | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      |        |        |
| CCV                  | 1.00  | 1413 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| CCB                  | 1.00  | 1415 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| CP-1                 | 20.00 | 1424 |     |          |        |        |        |        |        |        |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        | X      |
| SP-4                 | 20.00 | 1426 |     |          |        |        |        |        |        |        |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        | X      |
| SP-6                 | 1.00  | 1428 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| DUP-1                | 1.00  | 1432 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| SP-7                 | 1.00  | 1434 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| SP-5                 | 1.00  | 1436 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| SP-5D                | 1.00  | 1438 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| SP-5S                | 1.00  | 1441 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| SP-5SD               | 1.00  | 1443 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| SP-5L                | 5.00  | 1445 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| CCV                  | 1.00  | 1448 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| CCB                  | 1.00  | 1450 |     | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      |
| ZZZZZZ               | 1.00  | 1454 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1456 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1459 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1501 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 5.00  | 1503 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1507 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1509 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1511 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 1.00  | 1513 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| ZZZZZZ               | 5.00  | 1516 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

CHEMTECH

PERCENT SOLIDS.

ANALYST: Melissa Mader  
DATE: 5/25/07

QC:

| Sample   | Client ID | Dish # | Dish Weight (g) | Dish Wt.+ Sample (g) | Dish Wt.+ Dry Sample (g) | % Solids |
|----------|-----------|--------|-----------------|----------------------|--------------------------|----------|
| S2673-01 | MFOZR2    | 1      | 1.14            | 10                   | 7.35                     | 70.1     |
| S2673-02 | MFOZR2D   | 2      | 1.15            | 9.97                 | 7.29                     | 69.6     |
| S2673-03 | MFOZR2S   | 3      | NR              | NR                   | NR                       | NR       |
| S2673-04 | MFOZS0    | 4      | 1.15            | 9.73                 | 7.81                     | 77.6     |
| S2673-05 | MFOZS1    | 5      | 1.15            | 9.14                 | 7.55                     | 80.1     |
| S2673-06 | MFOZS7    | 6      | 1.15            | 8.48                 | 7.07                     | 80.8     |
| BLANK    | DISH      | B1     | 1.15            | 1.15                 | 1.15                     | 0.0      |

OVEN TEMP: 104°CTIME IN: 5/25/07 @ 10:30am 6LTIME OUT: 5/26/07 @ 8:00am 0L

# Premier Environmental Services

DATA USABILITY SUMMARY REPORT (DUSR)  
OF THE  
CORAL GRAPHICS - NEW SOUTH SOUTH ROAD SITE

INORGANIC ANALYSES  
IN AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP  
MOUNTAINSIDE, NEW JERSEY

REPORT NUMBER: P5117

July, 2004

RECEIVED

JUL 07 2004 EA

NELSON & POPE

Prepared for  
Nelson, Pope & Voorhis, LLC  
Melville, New York

Prepared by  
Premier Environmental Services  
2815 Covered Bridge Road  
Merrick, New York 11566  
(516)223-9761

### NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** TAL Metals  
**SITE:** Coral Graphics Site  
**CONTRACT LAB:** Chemtech Consulting Group  
Mountainside, New Jersey  
**REVIEWER:** Renee Cohen  
**DATE REVIEW COMPLETED:** June, 2004  
**MATRIX:** Aqueous

This data assessment is for four (4) monitoring well samples and one (1) Field Blank sample as listed below. The samples were collected on November 13, 2002 and shipped via UPS to Chemtech Consulting Group, located in Mountainside, New Jersey. All samples were analyzed for the TAL Metals group. The samples were received at the laboratory on November 14, 2002. A copy of the Chain of Custody documents is located in Appendix C of this report.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. HOLDING TIME**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

All sample analyses associated with Project ID: P5117 were prepared/digested and analyzed within the proper holding time.

### **2. CALIBRATION ANALYSIS**

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The samples in this data set were analyzed in one analytical sequence November 23, 2002. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria. The laboratory

Analysis for Cold Vapor Mercury is calibrated using multi point standards and calculating the correlation coefficient of the curve. One of the calibrations standards must be analyzed at the CRDL. The Mercury analyses associated with this data set were performed on November 25, 2002. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

### **3. CRDL STANDARD**

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

All ICP CRDL standards associated with this data set met QC criteria.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. INTERFERENCE CHECK STANDARD**

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferent metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

### **5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSIS**

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-150%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. USEPA Region II criteria states that if the matrix spike recovery is greater than 150%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

Sample MS/MSD analysis was performed on sample MW-1. All percent recoveries met QC criteria in the MS/MSD sample set met QC criteria with the exception of Vanadium (58.9%/59.4%) and Zinc (44.7%/45.0%). The samples in this data set have been qualified "J/UJ" estimated for both Vanadium and Zinc.

Qualified data result pages are located in Appendix B of this report.

### **6. POST DIGESTION SPIKE ANALYSIS**

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Chemtech Consulting Group did not perform post digestion spike analysis with this data set.

### **7. DUPLICATE SAMPLE ANALYSIS**

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Duplicate sample analysis was performed on sample MW-1. All duplicate analyte RPD's met QC criteria in this sample. In addition, Chemtech Consulting Group reported the results of the MS/MSD duplicate analysis. All RPD's met QC criteria in the MS/MSD sample set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **8. ICP SERIAL DILUTION**

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Sample MW-1 was utilized for the serial dilution analysis. All serial dilution results met QC criteria in this sample analysis with the exception of Potassium (26.2%) and Sodium (15.1%). These analytes have been qualified "UI/J" estimated in the samples in this data set.

Qualified data result pages are located in Appendix B of this report.

### **9. BLANKS**

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

ICP Metals – The samples in this data set were prepared in one (1) batch on 11/5/02. This method blank was free from contamination of target analytes above the CRDL.

Mercury Analyses - The samples in this data set were prepared in one (1) batch on 1/19/02. This method blank was free from contamination.

The aqueous FIELDBLANK (Sample P5117-07) was free from contamination of all target analytes above the CRDL.

### **10. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)**

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine if data should be qualified or rejected.

Chemtech prepared and analyzed an aqueous LCS sample with each digestion batch associated with this data set. Recovery limits of 80%-120% were utilized for review of the aqueous LCS sample. All LCS recoveries met QC limits.



## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **11. INSTRUMENT QC DATA**

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech Consulting Group performed the required studies specified by the method.

### **12. COMPOUND IDENTIFICATION**

The samples in this data set were analyzed in accordance with the cited methodologies. All samples were analyzed without dilution.

### **13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT**

This data set included the analysis of four (4) aqueous samples and one (1) Field Blank sample. The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. A description of the qualifiers and decision for them is detailed in the above report. Qualified data result pages are located in Appendix B of this report.

# Premier Environmental Services

## TABLE 1

# Premier Environmental Services

## CLIENT SAMPLE ID

## LABORATORY SAMPLE ID

|             |          |
|-------------|----------|
| MW-1        | P5117-01 |
| MW-1 MS     | P5117-02 |
| MW-1 MSD    | P5117-03 |
| MW-2        | P5117-04 |
| MW-3        | P5117-05 |
| MW-4        | P5117-06 |
| FIELD BLANK | P5117-07 |

# Premier Environmental Services

## APPENDIX A

# Premier Environmental Services

## DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.

K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL - The analyte was not detected, and the reported quantitation limit is probably higher than reported.

# Premier Environmental Services

## APPENDIX B

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P5117

Method Type: SW846

Sample ID: P5117-01

Client ID: MW-1

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P5117

Matrix: WATER

Date Received: 11/14/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 135           | ug/L  | B |      | P  | 18.4 | P1            | P111232        |
| 7440-36-0 | Antimony  | 3.8           | ug/L  | U |      | P  | 3.8  | P1            | P111232        |
| 7440-38-2 | Arsenic   | 4.5           | ug/L  | U |      | P  | 4.5  | P1            | P111232        |
| 7440-39-3 | Barium    | 91.6          | ug/L  | B |      | P  | 9.9  | P1            | P111232        |
| 7440-41-7 | Beryllium | 0.11          | ug/L  | B |      | P  | 0.10 | P1            | P111232        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P111232        |
| 7440-70-2 | Calcium   | 12800         | ug/L  |   |      | P  | 36.2 | P1            | P111232        |
| 7440-47-3 | Chromium  | 13.7          | ug/L  |   |      | P  | 1.4  | P1            | P111232        |
| 7440-48-4 | Cobalt    | 29.6          | ug/L  | B |      | P  | 0.70 | P1            | P111232        |
| 7440-50-8 | Copper    | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P111232        |
| 7439-89-6 | Iron      | 110           | ug/L  |   |      | P  | 22.2 | P1            | P111232        |
| 7439-92-1 | Lead      | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P111232        |
| 7439-95-4 | Magnesium | 3270          | ug/L  | B |      | P  | 7.0  | P1            | P111232        |
| 7439-96-5 | Manganese | 115           | ug/L  |   |      | P  | 0.20 | P1            | P111232        |
| 7439-97-6 | Mercury   | 0.20          | ug/L  | U |      | CV | 0.20 | CV1           | 112502B        |
| 7440-02-0 | Nickel    | 10.6          | ug/L  | B |      | P  | 2.0  | P1            | P111232        |
| 7440-09-7 | Potassium | 1400          | ug/L  | B | E    | P  | 27.3 | P1            | P111232        |
| 7782-49-2 | Selenium  | 2.9           | ug/L  | B |      | P  | 1.3  | P1            | P111232        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P111232        |
| 7440-23-5 | Sodium    | 11100         | ug/L  |   | E    | P  | 217  | P1            | P111232        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P111232        |
| 7440-62-2 | Vanadium  | 1.4           | ug/L  | U | N    | P  | 1.4  | P1            | P111232        |
| 7440-66-6 | Zinc      | 18.3          | ug/L  | B | N    | P  | 1.8  | P1            | P111232        |

000007

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P5117

Method Type: SW846

Sample ID: P5117-04

Client ID: MW-2

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P5117

Matrix: WATER

Date Received: 11/14/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 92.7          | ug/L  | B |      | P  | 18.4 | P1            | P111232        |
| 7440-36-0 | Antimony  | 3.8           | ug/L  | U |      | P  | 3.8  | P1            | P111232        |
| 7440-38-2 | Arsenic   | 4.5           | ug/L  | U |      | P  | 4.5  | P1            | P111232        |
| 7440-39-3 | Barium    | 38.2          | ug/L  | B |      | P  | 9.9  | P1            | P111232        |
| 7440-41-7 | Beryllium | 0.20          | ug/L  | B |      | P  | 0.10 | P1            | P111232        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P111232        |
| 7440-70-2 | Calcium   | 5280          | ug/L  |   |      | P  | 36.2 | P1            | P111232        |
| 7440-47-3 | Chromium  | 2.4           | ug/L  | B |      | P  | 1.4  | P1            | P111232        |
| 7440-48-4 | Cobalt    | 2.8           | ug/L  | B |      | P  | 0.70 | P1            | P111232        |
| 7440-50-8 | Copper    | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P111232        |
| 7439-89-6 | Iron      | 150           | ug/L  |   |      | P  | 22.2 | P1            | P111232        |
| 7439-92-1 | Lead      | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P111232        |
| 7439-95-4 | Magnesium | 1600          | ug/L  | B |      | P  | 7.0  | P1            | P111232        |
| 7439-96-5 | Manganese | 30.7          | ug/L  |   |      | P  | 0.20 | P1            | P111232        |
| 7439-97-6 | Mercury   | 0.20          | ug/L  | U |      | CV | 0.20 | CV1           | 112502B        |
| 7440-02-0 | Nickel    | 2.0           | ug/L  | U |      | P  | 2.0  | P1            | P111232        |
| 7440-09-7 | Potassium | 1490          | ug/L  | B | E    | P  | 27.3 | P1            | P111232        |
| 7782-49-2 | Selenium  | 4.9           | ug/L  | B |      | P  | 1.3  | P1            | P111232        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P111232        |
| 7440-23-5 | Sodium    | 8960          | ug/L  |   | E    | P  | 217  | P1            | P111232        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P111232        |
| 7440-62-2 | Vanadium  | 1.5           | ug/L  | B | N    | P  | 1.4  | P1            | P111232        |
| 7440-66-6 | Zinc      | 26.7          | ug/L  |   | N    | P  | 1.8  | P1            | P111232        |

000009



## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P5117

Method Type: SW846

Sample ID: P5117-05

Client ID: MW-3

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P5117

Matrix: WATER

Date Received: 11/14/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 77.2          | ug/L  | B |      | P  | 18.4 | P1            | P111232        |
| 7440-36-0 | Antimony  | 3.8           | ug/L  | U |      | P  | 3.8  | P1            | P111232        |
| 7440-38-2 | Arsenic   | 4.5           | ug/L  | U |      | P  | 4.5  | P1            | P111232        |
| 7440-39-3 | Barium    | 24.6          | ug/L  | B |      | P  | 9.9  | P1            | P111232        |
| 7440-41-7 | Beryllium | 0.19          | ug/L  | B |      | P  | 0.10 | P1            | P111232        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P111232        |
| 7440-70-2 | Calcium   | 6280          | ug/L  |   |      | P  | 36.2 | P1            | P111232        |
| 7440-47-3 | Chromium  | 3.1           | ug/L  | B |      | P  | 1.4  | P1            | P111232        |
| 7440-48-4 | Cobalt    | 1.1           | ug/L  | B |      | P  | 0.70 | P1            | P111232        |
| 7440-50-8 | Copper    | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P111232        |
| 7439-89-6 | Iron      | 55.0          | ug/L  | B |      | P  | 22.2 | P1            | P111232        |
| 7439-92-1 | Lead      | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P111232        |
| 7439-95-4 | Magnesium | 1670          | ug/L  | B |      | P  | 7.0  | P1            | P111232        |
| 7439-96-5 | Manganese | 24.7          | ug/L  |   |      | P  | 0.20 | P1            | P111232        |
| 7439-97-6 | Mercury   | 0.20          | ug/L  | U |      | CV | 0.20 | CV1           | 112502B        |
| 7440-02-0 | Nickel    | 3.0           | ug/L  | B |      | P  | 2.0  | P1            | P111232        |
| 7440-09-7 | Potassium | 2040          | ug/L  | B | E    | P  | 27.3 | P1            | P111232        |
| 7782-49-2 | Selenium  | 1.3           | ug/L  | U |      | P  | 1.3  | P1            | P111232        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P111232        |
| 7440-23-5 | Sodium    | 15900         | ug/L  |   | E    | P  | 217  | P1            | P111232        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P111232        |
| 7440-62-2 | Vanadium  | 1.4           | ug/L  | U | N    | P  | 1.4  | P1            | P111232        |
| 7440-66-6 | Zinc      | 48.1          | ug/L  |   | N    | P  | 1.8  | P1            | P111232        |

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## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P5117

Method Type: SW846

Sample ID: P5117-06

Client ID: MW-4

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P5117

Matrix: WATER

Date Received: 11/14/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 157           | ug/L  | B |      | P  | 18.4 | P1            | P111232        |
| 7440-36-0 | Antimony  | 3.8           | ug/L  | U |      | P  | 3.8  | P1            | P111232        |
| 7440-38-2 | Arsenic   | 4.5           | ug/L  | U |      | P  | 4.5  | P1            | P111232        |
| 7440-39-3 | Barium    | 94.8          | ug/L  | B |      | P  | 9.9  | P1            | P111232        |
| 7440-41-7 | Beryllium | 0.38          | ug/L  | B |      | P  | 0.10 | P1            | P111232        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P111232        |
| 7440-70-2 | Calcium   | 13100         | ug/L  |   |      | P  | 36.2 | P1            | P111232        |
| 7440-47-3 | Chromium  | 13.0          | ug/L  |   |      | P  | 1.4  | P1            | P111232        |
| 7440-48-4 | Cobalt    | 29.0          | ug/L  | B |      | P  | 0.70 | P1            | P111232        |
| 7440-50-8 | Copper    | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P111232        |
| 7439-89-6 | Iron      | 98.4          | ug/L  | B |      | P  | 22.2 | P1            | P111232        |
| 7439-92-1 | Lead      | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P111232        |
| 7439-95-4 | Magnesium | 3390          | ug/L  | B |      | P  | 7.0  | P1            | P111232        |
| 7439-96-5 | Manganese | 115           | ug/L  |   |      | P  | 0.20 | P1            | P111232        |
| 7439-97-6 | Mercury   | 0.20          | ug/L  | U |      | CV | 0.20 | CV1           | 112502B        |
| 7440-02-0 | Nickel    | 10.2          | ug/L  | B |      | P  | 2.0  | P1            | P111232        |
| 7440-09-7 | Potassium | 1460          | ug/L  | B | E    | P  | 27.3 | P1            | P111232        |
| 7782-49-2 | Selenium  | 1.3           | ug/L  | U |      | P  | 1.3  | P1            | P111232        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P111232        |
| 7440-23-5 | Sodium    | 11600         | ug/L  |   | E    | P  | 217  | P1            | P111232        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P111232        |
| 7440-62-2 | Vanadium  | 1.4           | ug/L  | U | N    | P  | 1.4  | P1            | P111232        |
| 7440-66-6 | Zinc      | 14.6          | ug/L  | B | N    | P  | 1.8  | P1            | P111232        |

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## METALS

-1-

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P5117

Method Type: SW846

Sample ID: P5117-07

Client ID: FIELDBLANK

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P5117

Matrix: WATER

Date Received: 11/14/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 56.1          | ug/L  | B |      | P  | 18.4 | P1            | P111232        |
| 7440-36-0 | Antimony  | 3.8           | ug/L  | U |      | P  | 3.8  | P1            | P111232        |
| 7440-38-2 | Arsenic   | 4.5           | ug/L  | U |      | P  | 4.5  | P1            | P111232        |
| 7440-39-3 | Barium    | 9.9           | ug/L  | U |      | P  | 9.9  | P1            | P111232        |
| 7440-41-7 | Beryllium | 0.41          | ug/L  | B |      | P  | 0.10 | P1            | P111232        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P111232        |
| 7440-70-2 | Calcium   | 36.2          | ug/L  | U |      | P  | 36.2 | P1            | P111232        |
| 7440-47-3 | Chromium  | 1.4           | ug/L  | U |      | P  | 1.4  | P1            | P111232        |
| 7440-48-4 | Cobalt    | 0.70          | ug/L  | U |      | P  | 0.70 | P1            | P111232        |
| 7440-50-8 | Copper    | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P111232        |
| 7439-89-6 | Iron      | 22.2          | ug/L  | U |      | P  | 22.2 | P1            | P111232        |
| 7439-92-1 | Lead      | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P111232        |
| 7439-95-4 | Magnesium | 7.0           | ug/L  | U |      | P  | 7.0  | P1            | P111232        |
| 7439-96-5 | Manganese | 0.21          | ug/L  | B |      | P  | 0.20 | P1            | P111232        |
| 7439-97-6 | Mercury   | 0.20          | ug/L  | U |      | CV | 0.20 | CV1           | 112502B        |
| 7440-02-0 | Nickel    | 2.0           | ug/L  | U |      | P  | 2.0  | P1            | P111232        |
| 7440-09-7 | Potassium | 27.3 U        | ug/L  | U | E    | P  | 27.3 | P1            | P111232        |
| 7782-49-2 | Selenium  | 1.3           | ug/L  | U |      | P  | 1.3  | P1            | P111232        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P111232        |
| 7440-23-5 | Sodium    | 217 U         | ug/L  | U | E    | P  | 217  | P1            | P111232        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P111232        |
| 7440-62-2 | Vanadium  | 1.4 U         | ug/L  | U | N    | P  | 1.4  | P1            | P111232        |
| 7440-66-6 | Zinc      | 2.8 J         | ug/L  | B | N    | P  | 1.8  | P1            | P111232        |

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# Premier Environmental Services

## APPENDIX C



284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

CHEMTECH JOB NO.:  
CHEMTECH QUOTE NO.: P5117

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION PROJECT INFORMATION BILLING INFORMATION

REPORT TO BE SENT TO:  
COMPANY: Nelson, Poore + Vonnies  
ADDRESS: 572 Walt Whitman Rd.  
CITY: MELVILLE STATE: NY ZIP: 11747  
ATTENTION: Eric Rosenberg  
PHONE: 631-427-5665 FAX: 631-427-5620

PROJECT NAME: Coastal Gasworks  
PROJECT NO.: 01075 LOCATION:  
PROJECT MANAGER: Eric Rosenberg  
E-MAIL: B.A. Rosenberg @ NP-NV.COM  
PHONE: FAX:

BILL TO: NP+V PO #:  
ADDRESS:  
CITY: STATE: ZIP:  
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION  
FAX: DAYS \*  
HARD COPY: DAYS \*  
EDD: DAYS \*  
\* TO BE APPROVED BY CHEMTECH  
\*\* NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION  
☐ RESULTS ONLY ☐ USEPA CLP  
☐ RESULTS + QC ☐ NYS ASP "B"  
☐ NJ REDUCED ☐ NYS ASP "A"  
☐ NJ CLP ☐ EDD  
☐ EDD FORMAT:

ANALYSIS

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

| CHEMTECH<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------|
|                          |                                  |                  | COMP           | GRAB | DATE                 | TIME |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |
| 1. 01                    | MW-1                             | 420              |                | ✓    | 11/13/02             | 0900 | 1            |               |   |   |   |   |   |   |   |   |          |
| 2. 02                    | MW-1ms                           |                  |                |      |                      | 0900 | 1            |               |   |   |   |   |   |   |   |   |          |
| 3. 03                    | MW-1msd                          |                  |                |      |                      | 0900 | 1            |               |   |   |   |   |   |   |   |   |          |
| 4. 04                    | MW-2                             |                  |                |      |                      | 1200 | 1            |               |   |   |   |   |   |   |   |   |          |
| 5. 05                    | MW-3                             |                  |                |      |                      | 1350 | 1            |               |   |   |   |   |   |   |   |   |          |
| 6. 06                    | MW-4                             |                  |                |      |                      | 0800 | 1            |               |   |   |   |   |   |   |   |   |          |
| 7. 07                    | FIELD BLANK                      | ✓                |                | ✓    | ✓                    |      | 1            |               |   |   |   |   |   |   |   |   |          |
| 8.                       |                                  |                  |                |      |                      |      |              |               |   |   |   |   |   |   |   |   |          |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                            |                                    |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------|------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER:<br>1. <u>Eric</u> | DATE/TIME:<br><u>11/13/02/1500</u> | RECEIVED BY:<br>1. <u>[Signature]</u>         | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non-Compliant <input checked="" type="checkbox"/> Temp. of Cooler <u>3.0</u><br>MeOH extractions requires an additional 4oz. jar for percent solid.<br>Comments:<br><br>Shipped Via: Client <input type="checkbox"/> Hand Delivered <input checked="" type="checkbox"/> Overnight <input checked="" type="checkbox"/> Picked Up <input type="checkbox"/> Overnight <input type="checkbox"/> Shipment Complete <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| RELINQUISHED BY:<br>2. <u>[Signature]</u>  | DATE/TIME:                         | RECEIVED BY:<br>2. <u>[Signature]</u>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| RELINQUISHED BY:<br>3. <u>DPS</u>          | DATE/TIME: <u>11/14/02</u>         | RECEIVED FOR LAB BY:<br>3. <u>Sunny Patel</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Page 1 of 1

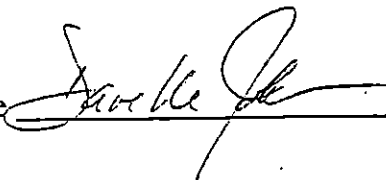
## Record Of Communication Login Change Form

|                                                                                                          |                                              |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Order Number:</b><br>P5117                                                                            | <b>Today's Date:</b><br>11/14/02             |
| <b>Client:</b><br>Nelson, Pope & Voorhis, LLC                                                            | <b>Sample Date:</b><br>11/13/02              |
| <b>Client Contact:</b><br>Eric Arnesen                                                                   | <b>Form Initiated by:</b><br>Davelle Johnson |
|                                                                                                          | <b>Project Manager</b><br>Kurt Hummler       |
| <b>General Comments/Special Instructions:</b><br>No analysis written on COC. Samples are for TAL Metals. |                                              |

Call initiated by ☐ Client ☐ Chemtech

### Login Changes

| Sample Number | Add Test | Delete Test | Change TAT |
|---------------|----------|-------------|------------|
|               |          |             |            |
|               |          |             |            |
|               |          |             |            |
|               |          |             |            |
|               |          |             |            |
|               |          |             |            |

Signature 
 Date 11-14-02

# Premier Environmental Services

## DATA USABILITY SUMMARY REPORT (DUSR) OF THE CORAL GRAPHICS – NEW SOUTH SOUTH ROAD SITE

### ORGANIC AND INORGANIC ANALYSES IN AQUEOUS AND NON-AQUEOUS SAMPLES

CHEMTECH CONSULTING GROUP  
MOUNTAINSIDE, NEW JERSEY

REPORT NUMBER: P3504

May, 2004

Prepared for  
Nelson, Pope & Voorhis, LLC  
Melville, New York

Prepared by  
Premier Environmental Services  
2815 Covered Bridge Road  
Merrick, New York 11566  
(516)223-9761

## NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** Volatile Organic Analyses, Semivolatile Organic Analyses,  
**SITE:** Coral Graphics – New South Road  
Hicksville, New York  
**CONTRACT LAB:** Chemtech  
Mountainside, New Jersey  
**REVIEWER:** Renee Cohen  
**DATE REVIEW COMPLETED:** May, 2004  
**MATRIX:** Aqueous

The data validation was performed according to the guidelines in the described in the New York State Department of Environmental Conservation, Division of Environmental Remediation, Guidance for the Development of Data Usability Summary Reports (DUSR). In addition the data was been reviewed using the protocol specified in the NYS Analytical Services Protocol ('95).

All data are considered valid and acceptable except those analytes which have been rejected "R" (unreliable/unusable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of the material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

This data assessment includes five (5) aqueous samples, one (1) Field Blank and one (1) Trip Blank (aqueous) sample collected July 26, 2002. The samples associated with this data set are summarized in Table 1 of this report. All of the samples were shipped to Chemtech Laboratories, located in Mountainside, New Jersey. The samples were received at the laboratory on July 29, 2002 via UPS. All samples were received in good condition. The samples were analyzed for Volatile Organic Analytes (EPA Method 8260) and Semivolatile Organic Analytes (SVOA-EPA Method 8270) as specified on the Chain of Custody (COC) documentation that accompanied the samples to the laboratory. A copy of the COC documents associated with each data set is located in Appendix C of this report. In addition, the samples were analyzed for TAL Metals. The inorganic data review is located in the Inorganic Data Usability Summary Report.



## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **1. OVERVIEW:**

The five (5) aqueous samples, one (1) Field Blank and one (1) Trip Blank sample were submitted to the laboratory for the analyses requested on the Chain of Custody (COC) documentation. The samples were analyzed for the organic analytes using EPA Test Methods for the Evaluation of Solid Waste (SW 846), Method 8260 and 8270. The laboratory provided a deliverables package in accordance with the guidelines in the NYSDEC ASP, Rev '95, Category B.

### **2. HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Preserved volatile organic analyses are required to be analyzed within 10 days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly preserved aqueous and non-aqueous samples is 14 days from collection. Semivolatile Organic analyses are to be prepared/extracted within five (5) days of validated time of sample receipt (VTSR) in accordance with the NYSDEC ASP, Rev '95. The technical holding time for properly samples is to prepare the aqueous samples within 7 days of collection and the soil samples within fourteen days of collection.

#### **Volatile Organic Analyses**

The aqueous samples in this data set were analyzed for Volatile Organic Analytes. The samples and associated QC samples were analyzed within the ten (10) days of VTSR.

#### **Semivolatile Organic Analyses**

Four (4) aqueous samples and the Field Blank sample were validated in this data set. The samples were extracted in one (1) batch on July 30, 2002. The samples in this data set were prepared and analyzed within the NYS DEC ASP holding time.

### **3. SURROGATES:**

All samples are spiked with surrogate compounds prior to sample preparation to evaluate the overall laboratory performance and the efficiency of the analytical technique. If the measured surrogate concentrations are outside the QC limits, qualifiers were applied to the effected samples.

**Volatile Organic Analyses** – Each sample was spiked with the surrogate compounds 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Toluene-d8 and Dibromofluoromethane. In-house surrogate recovery limits were reported by the laboratory. The percent recovery of each surrogate met QC criteria in each of the validated samples in this data set.

**Semivolatile Organic Analyses** – Each sample was spiked with the surrogate compounds 2-Fluorophenol, Phenol-d5, 2,4,6-Tribromophenol, Nitrobenzene-d5, 2-Fluorobiphenyl and Terphenyl-d14. The percent recovery of each surrogate met QC criteria in each of the sample analyses in this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:**

The MS/MSD data are generated to determine the long term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data. The laboratory used the in-house generated recovery criteria and RPD (precision) data for reporting purposes.

#### **Volatile Organic Analyses**

Sample 01075WP04GW01 was utilized as the MS/MSD sample with this data set. All Percent Recoveries and Relative Percent Differences met QC criteria in this MS/MSD sample set.

#### **Semivolatile Organic Analyses**

Sample 01075WP04GW01 was utilized for the MS/MSD analysis associated with this data set. All Percent Recoveries reported met QC sample with the exception of Hexachlorocyclopentadiene in the MSD sample. No action was taken based on MS/MSD data alone. All Relative Percent Differences met QC criteria in the MS/MSD sample set.

### **5. BLANK SPIKE ANALYSIS:**

The NY ASP protocol requires that a blank spike analysis be performed with each sample batch. The blank spike analysis is used to insure that the analytical system is in control. The laboratory applied in-house recovery limits for each analyte.

#### **Volatile Organic Analytes**

The laboratory reported one (1) blank spike analysis with this data set. The blank spike sample was fortified with all reported analytes. The spike recoveries of each target analyte met QC criteria.

#### **Semivolatile Organic Analytes**

The laboratory performed one (1) blank spike analysis with this data set. The sample was spiked with all reported analytes. All spike recoveries in the blank spike sample met QC criteria.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **6. BLANK CONTAMINATION:**

Quality assurance (QA) blanks, such as the method, trip, field, or rinse blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Samples are then qualified based on blank contamination when detected.

#### **A) Method Blank contamination**

##### **Volatile Organic Analyses**

One (1) aqueous method blank is associated with this data set. It was free from contamination of all target analytes and non-target (TIC) compounds.

##### **Semivolatile Organic Analyses**

One (1) aqueous method blank sample is associated with this data set. It was free from contamination of all target analytes. One (1) Aldol Condensation Product (ACP) at retention time 3.45 minutes was detected in this method blank sample. Chemtech Consulting did not qualify the ACP on the sample result forms with a "B" to indicate that it was a blank contaminant, however, they were not added when total TIC's detected were reported for each sample. When detected in associated aqueous field samples, this ACP was negated.

Qualified data result pages are located in Appendix B of this report.

#### **B) Field Blank contamination**

##### **Volatile Organic Analyses**

The Field Blank sample (01075FBGW01) was free from contamination of all target analytes with the exception of Carbon Disulfide (110 ug/L).

##### **Semivolatile Organic Analyses**

The Field Blank sample (01075FBGW01) was free from contamination of all target and non-target analytes with the exception of an ACP at retention time 3.40. When detected in associated aqueous field samples, this ACP was negated.

Qualified data result pages are located in Appendix B of this report.

#### **C) Trip Blank contamination**

##### **Volatile Organic Analyses**

The Trip Blank (TB) sample (01075TBGW01) was free from contamination of all target and non-analytes.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance. USEPA data validation criteria is the same for all analytes in both GC/MS Volatile and GC/MS Semivolatile Organic analyses, therefore, all text discussion is for VOA and SVOA samples analyses.

#### A) RESPONSE FACTOR

The response factor measures the instrument's response to specific chemical compounds. USEPA data review requires that the response factor of all analytes be greater than or equal to 0.05 in both initial and continuing calibration analyses. A value less than 0.05 indicates a serious detection and quantitation problem (poor sensitivity). USEPA data validation criteria states that if the minimum RRF criteria is not met in an initial calibration the positive results are qualified "J". Non detect results in the initial calibration with a RRF <0.05 are qualified "R", unusable. If RRF criteria is not met in the continuing calibration curve analysis, effected positive analytes will be qualified "J" estimated. Those analytes not detected are not qualified. The SW-846 Methods cite specific analytes known as System Performance Check Compounds (SPCC). Minimum response criteria is set for these analytes. If the minimum criteria is not met, analyses must stop and the source of problems must be found and corrected. Data associated with this set has been reviewed for the criteria in the cited in the EPA Method and the USEPA criteria.

#### Volatile Organic Analyses

One (1) initial calibration curves are associated with this data set. The laboratory performed an initial multi-level calibration curve on July 17-18, 2002 (Inst.B). The RRF for all target compounds met QC criteria in this initial calibration curve.

One (1) continuing calibration standard is associated with this data set. All response factors of the target analytes met QC criteria in this continuing calibration standard analysis.

#### Semivolatile Organic Analyses

One (1) initial calibration curve is associated with this data set. The laboratory performed an initial multi level calibration on July 30, 2002 (Inst. D). The RRF of all target compounds met QC criteria in this initial calibration curve.

Four (4) continuing calibration standards are associated with the curve analysis on Instrument D. Response factors of each target analyte met QC criteria in each of the continuing calibration standard analyses.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 7. GC/MS CALIBRATION (cont'd)

#### B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the compounds in the continuing calibration standard to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Region II data validation criteria states that the percent RSD of the initial calibration curve must be less than or equal to 30%. The %D must be <25% in the continuing calibration standard. This criteria has been applied to all target analytes. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects may be flagged "UJ", based on professional judgement. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R", unuseable. Data associated with this set has been reviewed for the criteria in the cited in the USEPA Data Validation Guidelines.

#### Volatile Organic Analyses

One (1) initial calibration curve is associated with this data set. The laboratory performed one (1) initial multi level calibration on July 17-18, 2002 (Inst.B). The %RSD for all target compounds met QC criteria in this initial calibration curve with the exception of Methylene Chloride (42.2%). Methylene Chloride has been qualified "UJ/J" estimated in all samples in this data set.

Qualified data result pages are located in Appendix B of this report.

One (1) continuing calibration standard analysis is associated with this data set. All % Difference criteria were met for all target analytes in each of the continuing calibration standard analyses with the exception of Carbon Tetrachloride (33.3%). Carbon Tetrachloride has been qualified "UJ/J" estimated in each of the samples in this data set.

Qualified data result pages are located in Appendix B of this report.

**DATA USABILITY SUMMARY REPORT (DUSR)  
CORAL GRAPHICS SITE**

**7. GC/MS CALIBRATION (cont'd)**

**B) PERCENT RELATIVE STANDARD DEVIATION (RSD) AND PERCENT DIFFERENCE (%D):**

**Semivolatile Organic Analyses**

One (1) initial calibration curve analysis is associated with this data set. The laboratory performed an initial multi level calibration on July 30, 2002 (Inst. D). The %RSD criteria was met for all target compounds in the initial calibration curve with the exception of 17, 1002 using a dilution of 1:10. This reduced the matrix interference, however a number of the target analyte 2,4-Dinitrophenol (61.1%) and 4,6-Dinitro-2-methylphenol (36.7%).

Four (4) continuing calibration standards are associated with this calibration curve. All %Difference/Deviation criteria were met for the target analytes in this continuing calibration standard analysis with the exception of the following:

| Date    | File ID    | Analyte                     | %Difference |
|---------|------------|-----------------------------|-------------|
| 8/6/02  | BD001544.D | 2,4-Dinitrophenol           | 66.3        |
|         |            | 4,6-Dinitro-2-methylphenol  | 25.2        |
| 8/9/02  | BD001636.D | 2,2-oxybis(1-chloropropane) | 36.8        |
|         |            | Hexachlorocyclopentadiene   | 29.2        |
|         |            | 2,4-Dinitrophenol           | 52.9        |
|         |            | 4,6-Dinitro-2-methylphenol  | 29.8        |
| 8/10/02 | BD001654.D | 2,2-oxybis(1-chloropropane) | 38.5        |
|         |            | 2,4-Dinitrophenol           | 57.7        |
| 8/12/02 | BD001672.D | 2,2-oxybis(1-chloropropane) | 32.1        |
|         |            | Hexachlorocyclopentadiene   | 60.0        |
|         |            | 2,4-Dinitrophenol           | 81.7        |
|         |            | 4,6-Dinitro-2-methylphenol  | 35.1        |
|         |            | Indeno(1,2,3-cd)pyrene      | 30.1        |

These target analytes have been qualified "UJ/F" estimated in the samples associated with the continuing calibration standard.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 8. GC/MS MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is Bromofluorobenzene (BFB). The tuning compound for semivolatile organic analyses is decafluorotriphenylphosphine (DFTPP). If the mass calibration is in error, or missing, all associated data will be classified as unusable, "R".

Volatile Organic Analyses/ Semivolatile Organic Analyses – All Instrument Tuning criteria was met for these sample analyses.

### 9. GC/MS INTERNAL STANDARDS PERFORMANCE:

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every run. The method recommends that the internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The method recommends that the retention time of the internal standard must not vary more than  $\pm 30$  seconds from the associated continuing calibration standard. The EPA CLP validation guidelines state that if the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified estimated, "J", and all non-detects below 50% are qualified "UJ", non detects above 100% should not be qualified or "R" if there is a severe loss of sensitivity. The internal standard evaluation criteria are applied to all field and QC samples.

#### Volatile Organic Analyses

All samples were fortified with the internal standards Tert Butyl Alcohol-d9, Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4. All internal standard area criteria were met for the validated samples in this data set.

#### Semivolatile Organic Analyses

The samples were fortified with the internal standards 1,4-Dichlorobenzene-d4, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Chrysene-d12 and Perylene-d12. All Internal Standard QC criteria were met for the samples in this data set.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 10. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within  $\pm 0.06$  RRT units of the standard compound, and have an ion spectra which has a ratio of the primary and secondary ion intensities with 20% of that in the standard compound.

#### Volatile Organic Analyses

All of the soil samples reported the VOA 8260 analytes specified on the COC documents. A Library Search was performed and reported with all samples in this data set. The laboratory reported the target analytes to the determined method detection limit. All validated samples were analyzed and reported without dilution except where noted below.

#### Semivolatile Organic Analyses

The laboratory reported the Semivolatile target analytes to the determined method detection limit. A Library Search was performed and reported with all samples in this data set. The validated samples were analyzed and reported without dilution.

### 11. FIELD DUPLICATE SAMPLE ANALYSIS

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. The Percent Solid results in these two field duplicate samples had a variance of 10.4%.

Duplicate samples are not associated with this data set.

### 12. OVERALL ASSESSMENT:

Analytical QC criteria was met for these analyses. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package. All soil sample data was reported on a dry weight basis.

The data provided for this data set is acceptable for use, with the noted data qualifiers.



### NYS DEC Data Usability Summary Report

**DATA VALIDATION FOR:** TAL Metals

**SITE:** Coral Graphics Site

**CONTRACT LAB:** Chemtech Consulting Group  
Mountainside, New Jersey

**REVIEWER:** Renee Cohen

**DATE REVIEW COMPLETED:** May, 2004

**MATRIX:** Aqueous

This data assessment is for five (5) aqueous samples, one (1) Field Blank and one (1) Trip Blank sample as listed below. The samples were collected on July 26, 2002 and shipped via UPS to Chemtech Consulting Group, located in Mountainside, New Jersey. All samples, with the exception of the Trip Blank were analyzed for the TAL Metals group. The samples were received at the laboratory on July 29, 2002. A copy of the Chain of Custody documents is located in Appendix C of this report.

The data evaluation was performed according to the guidelines noted in the "National Functional Guidelines for Inorganic Data Review, February 1994 and the NYSDEC ASP. A Data Usability Summary Report (DUSR) has been prepared in accordance with the guidelines of the Division of Environmental Remediation.

Several factors should be noted for all persons using this data. Persons using this data should be aware that no result is guaranteed to be accurate even if it has passed all QC tests. The main purpose of this review is to appropriately qualify outliers and to determine whether the results presented meet the specific site/project criteria for data quality and data use.

Table 1 of this report contains a cross reference between the Field Sample ID's and the Laboratory Sample ID's.

Appendix A of this Data Usability Summary Report (DUSR) contains a summary of the data qualifiers that may be used in the report. Appendix B contains the qualified data result pages. Appendix C contains the Chain of Custody (COC) documents associated with this data set

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 1. HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

All sample analyses associated with Project ID: P3504 were prepared/digested and analyzed within the proper holding time.

### 2. CALIBRATION ANALYSIS

Inductively Coupled Plasma (ICP) was utilized for these analyses. The ICP was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The samples were analyzed in one analytical sequence August 5, 2002. Recoveries of the ICV standard associated with the analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria.

Analysis for Cold Vapor Mercury is calibrated using multi point standards and calculating the correlation coefficient of the curve. One of the calibrations standards must be analyzed at the CRDL. The Mercury analyses associated with this data set was performed on August 5, 2002. The initial calibration of each of these analyses met QC criteria. Continuing calibration standard analysis was performed using a mid point standard and calculating the concentration of the standard in terms of recovery from the initial calibration curve. All continuing calibration analyses associated with this data set met QC criteria.

### 3. CRDL STANDARD

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 80%-120% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 10X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias samples are qualified estimated (J or UJ).

All ICP CRDL standards associated with this data set met QC criteria with the exception of Selenium (122.2%) in the initial CRDL standard. When detected, Selenium has been qualified "J" estimated.

Qualified data result pages are located in Appendix B of this report.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **4. INTERFERENCE CHECK STANDARD**

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferent metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

### **5. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSIS**

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-200%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. If the matrix spike recovery is greater than 200%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

MS/MSD analysis was performed on sample 01075WP04GW01. All percent recoveries met QC criteria in the MS/MSD sample set met QC criteria with the exception of Nickel (125.8%/125.3%). The samples associated with MS/MSD sample have been qualified "J/UJ" estimated for Nickel.

Qualified data result pages are located in Appendix B of this report.

### **6. POST DIGESTION SPIKE ANALYSIS**

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Chemtech Consulting Group did not perform post digestion spike analysis with this data set.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **7. DUPLICATE SAMPLE ANALYSIS**

The laboratory duplicate sample analysis is used to evaluate the laboratory precision of the method for each analyte. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or +/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Duplicate sample analysis was performed on sample 01075WP04GW01. All duplicate analyte RPD's met QC criteria in this sample with the exception of Aluminum (24.9%), Chromium (113.8%), Manganese (24.5%), and Nickel (128.9%). These analytes have been qualified "J" estimated in the samples associated with this data set.

Qualified result pages are located in Appendix B of this report.

### **8. ICP SERIAL DILUTION**

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Sample 01075WP04GW01 was utilized for the serial dilution analysis. All serial dilution results met QC criteria in this sample analysis with the exception of Potassium (16.1%). Potassium has been qualified "UJ/J" estimated in the associated samples.

Qualified data result pages are located in Appendix B of this report.

## DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE

### 9. BLANKS

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not affecting other data.

ICP Metals – The aqueous samples in this data set were prepared in one (1) batch on August 1, 2002. This preparation blank was free from contamination of target analytes above the CRDL with the exception of Lead (3.1 ug/l). Lead, when detected at a concentration within five times that in the preparation blank, has been negated in associated samples.

Qualified data result pages are located in Appendix B of this report.

Mercury Analyses - The aqueous samples in this data set were prepared in one (1) batch on August 2, 2002. This method blank was free from contamination.

One (1) field blank sample is associated with this data set. The Field Blank sample was free from contamination of all target analytes

### 10. LABORATORY CONTROL SAMPLE ANALYSIS (LCS)

The laboratory control sample (LCS) analysis provides information about the efficiency of the laboratory digestion procedure. If the recovery of any analyte is outside the established control limits, then laboratory performance and method accuracy are in question. Professional judgment is used to determine if data should be qualified or rejected.

Chemtech prepared and analyzed an aqueous and soil LCS sample with each digestion batch associated with this data set. Recovery limits of 80%-120% were utilized for review of the aqueous LCS sample. All LCS recoveries met QC limits.

### 11. INSTRUMENT QC DATA

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech Consulting Group performed the required studies specified by the method.

## **DATA USABILITY SUMMARY REPORT (DUSR) CORAL GRAPHICS SITE**

### **12. FIELD DUPLICATE SAMPLE ANALYSIS**

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Analytes reported above the method detection limit are listed. Data was not qualified based on the RPD of field duplicate sample analyses.

A field sample was not collected in duplicate with this sample set.

### **13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT**

This data set included the analysis of four (4) aqueous samples and one (1) Field Blank sample. All samples were prepared and analyzed for the Target Analyte Metal (TAL) list. The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. A description of the qualifiers and decision for them is detailed in the above report.

The data associated with this data set is acceptable for use with the noted data qualifiers. Details of the data qualification added to the analyte are located in the above text. All qualified data result pages are located in Appendix B of this report.

# Premier Environmental Services

## TABLE 1

# Premier Environmental Services

## CLIENT SAMPLE ID

## LABORATORY SAMPLE ID

|               |          |
|---------------|----------|
| 01075TBGW01   | P3504-01 |
| 01075FBGW01   | P3504-02 |
| 01075WP01GW01 | P3504-03 |
| 01075WP02W01  | P3504-04 |
| 01075WP04GW01 | P3504-05 |
| 01075WP05GW01 | P3504-06 |
| 01075WP06GW01 | P3504-07 |
| 01075MSGW01   | P3504-08 |
| 01075MSDGW01  | P3504-09 |



# Premier Environmental Services

## APPENDIX A

# Premier Environmental Services

## DATA QUALIFIER DEFINITIONS

- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are unreliable/unuseable. The presence or absence of the analyte cannot be verified.
- K - The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.
- L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.
- UL - The analyte was not detected, and the reported quantitation limit is probably higher than reported.

# Premier Environmental Services

## APPENDIX B

# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson.Pope & Voorhis, LLC

Sample ID: P3504-01

Client ID: 01075TBGW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/6/02

Matrix: WATER

File ID: VR080513.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>            |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane              | 74-83-9     | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride            | 75-01-4     | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane              | 75-00-3     | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride         | 75-09-2     | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                   | 67-64-1     | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Carbon disulfide          | 75-15-0     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene        | 75-35-4     | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane        | 75-34-3     | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene  | 156-60-5    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform                | 67-66-3     | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,2-Dichloroethane        | 107-06-2    | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| 2-Butanone                | 78-93-3     | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane     | 71-55-6     | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride      | 56-23-5     | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane      | 75-27-4     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,2-Dichloropropane       | 78-87-5     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| cis-1,3-Dichloropropene   | 10061-01-5  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene           | 79-01-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane        | 124-48-1    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,2-Trichloroethane       | 79-00-5     | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                   | 71-43-2     | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene       | 10061-02-6  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Bromoform                 | 75-25-2     | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                  | 591-78-6    | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene         | 127-18-4    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Toluene                   | 108-88-3    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene             | 108-90-7    | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene             | 100-41-4    | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Pyrene                    | 100-42-5    | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| m/p-Xylenes               | 136777-61-2 | < 1.5         | U | 5.0 | 1.5  | ug/L  |

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-01

Client ID: 01075TBGW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/6/02

Matrix: WATER

File ID: VR080513.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter              | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|------------------------|------------|---------------|-------|----------|------|---------|
| Xylene                 | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| SURROGATES             |            |               |       |          |      |         |
| 1,2-Dichloroethane-d4  | 79-00-5    | 59.4          | 119 % | 68 - 135 |      | SPK: 50 |
| Toluene-d8             | 2037-26-5  | 48.92         | 98 %  | 70 - 125 |      | SPK: 50 |
| Bromofluorobenzene     | 460-00-4   | 60.2          | 120 % | 70 - 125 |      | SPK: 50 |
| 1-bromofluoromethane   |            | 61.3          | 123 % | 70 - 125 |      | SPK: 50 |
| INTERNAL STANDARDS     |            |               |       |          |      |         |
| 1-fluorobenzene        | 363-72-4   | 734500        | 7.54  |          |      |         |
| 1,4-Difluorobenzene    | 540-36-3   | 889395        | 8.75  |          |      |         |
| Chlorobenzene-d5       | 3114-55-4  | 801911        | 14.42 |          |      |         |
| 1,4-Dichlorobenzene-d4 | 3855-82-1  | 522620        | 19.77 |          |      |         |

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson.Pope &amp; Voorhis, LLC

Sample ID: P3504-02

Client ID: 01075FBGW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080505.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                | CAS Number | Concentration | C | RDL | MDL  | Units |
|--------------------------|------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |            |               |   |     |      |       |
| Chloromethane            | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane             | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride           | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane             | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride        | 75-09-2    | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                  | 67-64-1    | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0    | 110           |   | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene       | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2   | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1-Dichloroethane       | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| 2-Butanone               | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane    | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride     | 56-23-5    | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane     | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,3-Dichloropropane      | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,1,3-Dichloropropene    | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene          | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane       | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,2-Trichloroethane      | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                  | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene      | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Bromoform                | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone     | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                 | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene        | 127-18-4   | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,2,2-Tetrachloroethane  | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Styrene                  | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene            | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Methyl Benzene           | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Propene                  | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |
|                          |            | < 1.5         | U | 5.0 | 1.5  | ug/L  |

# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P3504-02

Client ID: 01075FBGW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080505.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| Xylene                    | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| <b>ERROGATES</b>          |            |               |       |          |      |         |
| 1,1-Dichloroethane-d4     | 79-00-5    | 46.19         | 92 %  | 68 - 135 |      | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 46.67         | 93 %  | 70 - 125 |      | SPK: 50 |
| Bromofluorobenzene        | 460-00-4   | 53.07         | 106 % | 70 - 125 |      | SPK: 50 |
| Bromofluoromethane        |            | 55.33         | 111 % | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |      |         |
| 1,2-Difluorobenzene       | 363-72-4   | 1053063       | 7.52  |          |      |         |
| 1,3-Difluorobenzene       | 540-36-3   | 1219420       | 8.75  |          |      |         |
| Chlorobenzene-d5          | 3114-55-4  | 1003345       | 14.42 |          |      |         |
| 1,2-Dichlorobenzene-d4    | 3855-82-1  | 665147        | 19.76 |          |      |         |

# Chemtech Consulting Group

Volatiles  
SW-846

SDG No.: P3504

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P3504-03

Client ID: 01075WP01GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080506.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C | RDL | MDL  | Units |
|---------------------------|------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>            |            |               |   |     |      |       |
| Chloromethane             | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane              | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride            | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Fluoroethane              | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride         | 75-09-2    | < 1.8 U       | U | 5.0 | 1.8  | ug/L  |
| Acetone                   | 67-64-1    | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Hydrogen disulfide        | 75-15-0    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene        | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane        | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene  | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene    | 156-59-2   | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform                | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1-Dichloroethane        | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| 2-Butanone                | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane     | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride      | 56-23-5    | < 0.47 U      | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane      | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,1-Dichloropropane       | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,1,3-Dichloropropene     | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene           | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane        | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1,2-Trichloroethane     | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                   | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene       | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Bromoform                 | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone      | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                  | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene         | 127-18-4   | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Styrene                   | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene             | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene             | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Propene                   | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| 1,2-Dichloroethane        | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |



Volatiles  
SW-846

SDG No.: P3504

Client: Nelson.Pope &amp; Voorhis, LLC

Sample ID: P3504-03

Client ID: 0107SWP01GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080506.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|--------------------------|------------|---------------|-------|----------|------|---------|
| Xylene                   | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| SURROGATES               |            |               |       |          |      |         |
| 1,1-Dichloroethane-d4    | 79-00-5    | 45.53         | 91 %  | 68 - 135 |      | SPK: 50 |
| 1,2-Dichloroethane-d4    | 2037-26-5  | 45.52         | 91 %  | 70 - 125 |      | SPK: 50 |
| 1,3-Dibromofluorobenzene | 460-00-4   | 51.3          | 103 % | 70 - 125 |      | SPK: 50 |
| 1,1-Dibromofluoromethane |            | 55.51         | 111 % | 70 - 125 |      | SPK: 50 |
| INTERNAL STANDARDS       |            |               |       |          |      |         |
| 1,2-Difluorobenzene      | 363-72-4   | 1168018       | 7.55  |          |      |         |
| 1,3-Difluorobenzene      | 540-36-3   | 1284181       | 8.75  |          |      |         |
| Chlorobenzene-d5         | 3114-55-4  | 1029653       | 14.42 |          |      |         |
| 1,2-Dichlorobenzene-d4   | 3855-82-1  | 653867        | 19.77 |          |      |         |

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson.Pope &amp; Voorhis. LLC

Sample ID: P3504-04

Client ID: 01075WP02GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080507.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number  | Concentration | C | RDL | MDL  | Units |
|---------------------------|-------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>            |             |               |   |     |      |       |
| Chloromethane             | 74-87-3     | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane              | 74-83-9     | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride            | 75-01-4     | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane              | 75-00-3     | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride         | 75-09-2     | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                   | 67-64-1     | 25            |   | 5.0 | 3.5  | ug/L  |
| Carbon disulfide          | 75-15-0     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene        | 75-35-4     | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane        | 75-34-3     | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene  | 156-60-5    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene    | 156-59-2    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform                | 67-66-3     | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,2-Dichloroethane        | 107-06-2    | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| Butanone                  | 78-93-3     | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane     | 71-55-6     | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride      | 56-23-5     | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane      | 75-27-4     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,2-Dichloropropane       | 78-87-5     | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,3-Dichloropropene       | 10061-01-5  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene           | 79-01-6     | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane        | 124-48-1    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,2-Trichloroethane       | 79-00-5     | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                   | 71-43-2     | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene       | 10061-02-6  | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Bromoform                 | 75-25-2     | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone      | 108-10-1    | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                  | 591-78-6    | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene         | 127-18-4    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,1,2,2-Tetrachloroethane | 79-34-5     | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Styrene                   | 108-88-3    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene             | 108-90-7    | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene             | 100-41-4    | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Pyrene                    | 100-42-5    | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| m,p-Xylenes               | 136777-61-2 | < 1.5         | U | 5.0 | 1.5  | ug/L  |

Volatiles  
SW-846

SDG No.: P3504

Client: Nelson.Pope & Voorhis, LLC

Sample ID: P3504-04

Client ID: 01075WP02GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080507.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter              | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|------------------------|------------|---------------|-------|----------|------|---------|
| Benzene                | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| SURROGATES             |            |               |       |          |      |         |
| 1,1-Dichloroethane-d4  | 79-00-5    | 46.22         | 92 %  | 68 - 135 |      | SPK: 50 |
| 1,2-Dichloroethane-d8  | 2037-26-5  | 46.17         | 92 %  | 70 - 125 |      | SPK: 50 |
| 1-Bromofluorobenzene   | 460-00-4   | 50.48         | 101 % | 70 - 125 |      | SPK: 50 |
| 1-Bromofluoromethane   |            | 55.23         | 110 % | 70 - 125 |      | SPK: 50 |
| INTERNAL STANDARDS     |            |               |       |          |      |         |
| 1-Fluorobenzene        | 363-72-4   | 1181687       | 7.53  |          |      |         |
| 1,2-Difluorobenzene    | 540-36-3   | 1302287       | 8.77  |          |      |         |
| 1,3-Dichlorobenzene-d5 | 3114-55-4  | 1029717       | 14.43 |          |      |         |
| 1,4-Dichlorobenzene-d4 | 3855-82-1  | 637299        | 19.77 |          |      |         |

# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson.Pope & Voorhis, LLC

Sample ID: P3504-05

Client ID: 01075WP04GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080508.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                | CAS Number | Concentration | C | RDL | MDL  | Units |
|--------------------------|------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |            |               |   |     |      |       |
| Chloromethane            | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane             | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride           | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane             | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride        | 75-09-2    | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                  | 67-64-1    | 15            |   | 5.0 | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene       | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2   | 2.0           | J | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,2-Dichloroethane       | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| 2-Butanone               | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1-Trichloroethane      | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride     | 56-23-5    | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane     | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,2-Dichloropropane      | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,3-Dichloropropene      | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene          | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane       | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,1,2-Trichloroethane    | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                  | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene      | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Bromoform                | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| Methyl-2-Pentanone       | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                 | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene        | 127-18-4   | 5.2           |   | 5.0 | 0.70 | ug/L  |
| 1,2,2-Tetrachloroethane  | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Styrene                  | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene            | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Vinyl Benzene            | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Ethylene                 | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |

# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P3504-05

Client ID: 01075WP04GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VBB080508.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                 | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------|------------|---------------|-------|----------|------|---------|
| o-Xylene                  | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| <b>SURROGATES</b>         |            |               |       |          |      |         |
| 1,1-Dichloroethane-d4     | 79-00-5    | 47.62         | 95 %  | 68 - 135 |      | SPK: 50 |
| Toluene-d8                | 2037-26-5  | 46.65         | 93 %  | 70 - 125 |      | SPK: 50 |
| 4-Bromofluorobenzene      | 460-00-4   | 49.99         | 100 % | 70 - 125 |      | SPK: 50 |
| 1-Bromofluoromethane      |            | 55.52         | 111 % | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b> |            |               |       |          |      |         |
| 1-Fluorobenzene           | 363-72-4   | 1145609       | 7.54  |          |      |         |
| 1,2-Difluorobenzene       | 540-36-3   | 1281109       | 8.76  |          |      |         |
| Chlorobenzene-d5          | 3114-55-4  | 1016377       | 14.43 |          |      |         |
| 1,2-Dichlorobenzene-d4    | 3855-82-1  | 593267        | 19.78 |          |      |         |

# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson.Pope & Voorhis, LLC

Sample ID: P3504-06

Client ID: 01075WP05GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080509.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                | CAS Number | Concentration | C | RDL | MDL  | Units |
|--------------------------|------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>           |            |               |   |     |      |       |
| Chloromethane            | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane             | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride           | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane             | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride        | 75-09-2    | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                  | 67-64-1    | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Carbon disulfide         | 75-15-0    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| 1,1-Dichloroethene       | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| 1,1-Dichloroethane       | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Dichloroethene | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethene   | 156-59-2   | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform               | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| 1,1-Dichloroethane       | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| 2-Butanone               | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| 1,1,1-Trichloroethane    | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride     | 56-23-5    | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane     | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,1-Dichloropropane      | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| 1,1,3-Dichloropropene    | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene          | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane       | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| 1,2-Trichloroethane      | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                  | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| 1,3-Dichloropropene      | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Chloroform               | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| 4-Methyl-2-Pentanone     | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                 | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene        | 127-18-4   | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| 1,2,2-Tetrachloroethane  | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Toluene                  | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene            | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Phenyl Benzene           | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Benzene                  | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |
| m,p-Xylene               | 120-61-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |

Volatiles

SW-846

SDG No.: P3504

Client: Nelson.Pope & Voorhis. LLC

Sample ID: P3504-06

Client ID: 01075WP05GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/5/02

Matrix: WATER

File ID: VR080509.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                             | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|---------------------------------------|------------|---------------|-------|----------|------|---------|
| o-Xylene                              | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| <b>SPURROGATES</b>                    |            |               |       |          |      |         |
| 1,1-Dichloroethane-d4                 | 79-00-5    | 48.8          | 98 %  | 68 - 135 |      | SPK: 50 |
| Toluene-d8                            | 2037-26-5  | 47.33         | 95 %  | 70 - 125 |      | SPK: 50 |
| 1-Bromofluorobenzene                  | 460-00-4   | 52.23         | 104 % | 70 - 125 |      | SPK: 50 |
| 1-Bromofluoromethane                  |            | 50.75         | 102 % | 70 - 125 |      | SPK: 50 |
| <b>INTERNAL STANDARDS</b>             |            |               |       |          |      |         |
| 1-Fluorobenzene                       | 363-72-4   | 1071978       | 7.52  |          |      |         |
| 1,2-Difluorobenzene                   | 540-36-3   | 1258367       | 8.74  |          |      |         |
| Chlorobenzene-d5                      | 3114-55-4  | 1048042       | 14.42 |          |      |         |
| 1,2-Dichlorobenzene-d4                | 3855-82-1  | 642587        | 19.79 |          |      |         |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |            |               |       |          |      |         |
| Propane, 2-methoxy-2-methyl-          | 1634044    | 11            | J     | 5.16     |      | ug/L    |
| Octotrisiloxane, hexamethyl-          | 541059     | 8.4           | J     | 17.87    |      | ug/L    |

# Chemtech Consulting Group

Volatiles  
SW-846

SDG No.: P3504

Client: Nelson.Pope & Voorhis, LLC

Sample ID: P3504-07

Client ID: 01075WP06GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/6/02

Matrix: WATER

File ID: VR080514.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol: \_\_\_\_\_

Soil Aliquot Vol: \_\_\_\_\_

% Moisture: 100

| Parameter                     | CAS Number | Concentration | C | RDL | MDL  | Units |
|-------------------------------|------------|---------------|---|-----|------|-------|
| <b>TARGETS</b>                |            |               |   |     |      |       |
| Chloromethane                 | 74-87-3    | < 0.51        | U | 5.0 | 0.51 | ug/L  |
| Bromomethane                  | 74-83-9    | < 0.38        | U | 5.0 | 0.38 | ug/L  |
| Vinyl chloride                | 75-01-4    | < 0.79        | U | 5.0 | 0.79 | ug/L  |
| Chloroethane                  | 75-00-3    | < 2.4         | U | 5.0 | 2.4  | ug/L  |
| Ethylene Chloride             | 75-09-2    | < 1.8         | U | 5.0 | 1.8  | ug/L  |
| Acetone                       | 67-64-1    | < 3.5         | U | 5.0 | 3.5  | ug/L  |
| Carbon disulfide              | 75-15-0    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| trans-1,2-Dichloroethene      | 75-35-4    | < 0.69        | U | 5.0 | 0.69 | ug/L  |
| trans-1,2-Dichloroethane      | 75-34-3    | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| cis-1,2-Dichloroethene        | 156-60-5   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| cis-1,2-Dichloroethane        | 156-59-2   | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Chloroform                    | 67-66-3    | < 0.61        | U | 5.0 | 0.61 | ug/L  |
| trans-1,2-Dichloroethane      | 107-06-2   | < 0.56        | U | 5.0 | 0.56 | ug/L  |
| 2-Butanone                    | 78-93-3    | < 2.3         | U | 5.0 | 2.3  | ug/L  |
| trans-1,1-Trichloroethane     | 71-55-6    | < 0.75        | U | 5.0 | 0.75 | ug/L  |
| Carbon Tetrachloride          | 56-23-5    | < 0.47        | U | 5.0 | 0.47 | ug/L  |
| Bromodichloromethane          | 75-27-4    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| trans-1,2-Dichloropropane     | 78-87-5    | < 0.73        | U | 5.0 | 0.73 | ug/L  |
| trans-1,3-Dichloropropene     | 10061-01-5 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Trichloroethene               | 79-01-6    | < 0.72        | U | 5.0 | 0.72 | ug/L  |
| Bromochloromethane            | 124-48-1   | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| trans-1,2-Trichloroethane     | 79-00-5    | < 0.62        | U | 5.0 | 0.62 | ug/L  |
| Benzene                       | 71-43-2    | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| trans-1,3-Dichloropropene     | 10061-02-6 | < 0.66        | U | 5.0 | 0.66 | ug/L  |
| Bromoform                     | 75-25-2    | < 0.49        | U | 5.0 | 0.49 | ug/L  |
| Methyl-2-Pentanone            | 108-10-1   | < 0.81        | U | 5.0 | 0.81 | ug/L  |
| Hexanone                      | 591-78-6   | < 0.60        | U | 5.0 | 0.60 | ug/L  |
| Tetrachloroethene             | 127-18-4   | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| trans-1,2,2-Tetrachloroethane | 79-34-5    | < 0.70        | U | 5.0 | 0.70 | ug/L  |
| Toluene                       | 108-88-3   | < 0.71        | U | 5.0 | 0.71 | ug/L  |
| Chlorobenzene                 | 108-90-7   | < 0.78        | U | 5.0 | 0.78 | ug/L  |
| Ethyl Benzene                 | 100-41-4   | < 0.76        | U | 5.0 | 0.76 | ug/L  |
| Styrene                       | 100-42-5   | < 0.92        | U | 5.0 | 0.92 | ug/L  |



# Chemtech Consulting Group

## Volatiles

SW-846

SDG No.: P3504

Client: Nelson Pope & Voorhis, LLC

Sample ID: P3504-07

Client ID: 01075WP06GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/6/02

Matrix: WATER

File ID: VR080514.D

Analytical Run ID: VB071702

Dilution: 1

Instrument ID: MSVOAB

Analytical Method: 8260

Associated Blank: VBB0805W2

Sample Wt/Wol: 5.0 Units: mL

Soil Extract Vol:

Soil Aliquot Vol:

% Moisture: 100

| Parameter                      | CAS Number | Concentration | C     | RDL      | MDL  | Units   |
|--------------------------------|------------|---------------|-------|----------|------|---------|
| o-Xylene                       | 95-47-6    | < 0.72        | U     | 5.0      | 0.72 | ug/L    |
| ERROGATES                      |            |               |       |          |      |         |
| 1,1-Dichloroethane-d4          | 79-00-5    | 57.16         | 114 % | 68 - 135 |      | SPK: 50 |
| Toluene-d8                     | 2037-26-5  | 50.22         | 100 % | 70 - 125 |      | SPK: 50 |
| Bromofluorobenzene             | 460-00-4   | 59.07         | 118 % | 70 - 125 |      | SPK: 50 |
| Bromofluoromethane             |            | 58.9          | 118 % | 70 - 125 |      | SPK: 50 |
| INTERNAL STANDARDS             |            |               |       |          |      |         |
| 1,1-Difluorobenzene            | 363-72-4   | 789780        | 7.53  |          |      |         |
| 1,2-Difluorobenzene            | 540-36-3   | 961237        | 8.75  |          |      |         |
| Chlorobenzene-d5               | 3114-55-4  | 853945        | 14.42 |          |      |         |
| 1,2-Dichlorobenzene-d4         | 3855-82-1  | 559818        | 19.77 |          |      |         |
| TENTATIVE IDENTIFIED COMPOUNDS |            |               |       |          |      |         |
| Propane, 2-methoxy-2-methyl-   | 1634044    | 12            | J     | 5.17     |      | ug/L    |

## SVOC-TCL BNA

SPG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |              |                    |             |
|--------------------|--------------|--------------------|-------------|
| Sample ID:         | P3504-02     | Client ID:         | 01075FBGW01 |
| Date Collected:    | 7/26/02      | Date Received:     | 7/29/02     |
| Date Analyzed:     | 8/10/02      | Matrix:            | WATER       |
| Date Extracted:    | 7/30/02      | File ID:           | BD001661.D  |
| Dilution:          | 1            | Instrument ID:     | 5971D       |
| Analytical Method: | 8270         | Analytical Run ID: | 1           |
| Sample Wt/Wol:     | 1000.0       | Extract Vol:       | 1000        |
| Injection Vol:     | 2            | % Moisture:        | 100         |
| Associated Blank:  | PB073002-18B |                    |             |

| Parameter                     | Concentration | C | RDL | MDL | Units |
|-------------------------------|---------------|---|-----|-----|-------|
| AL-GETS                       |               |   |     |     |       |
| Acetol                        | < 1.0         | U | 10  | 1.0 | ug/L  |
| Chloroethyl)ether             | < 1.2         | U | 10  | 1.2 | ug/L  |
| Chlorophenol                  | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2-Dichlorobenzene             | < 1.0         | U | 10  | 1.0 | ug/L  |
| 3-Dichlorobenzene             | < 1.2         | U | 10  | 1.2 | ug/L  |
| 4-Dichlorobenzene             | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenol                | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dioxibis(1-chloropropane) | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dimethylphenols           | < 1.8         | U | 10  | 1.8 | ug/L  |
| 1-Nitroso-di-n-propylamine    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,1-Dichloroethane            | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,4-Dichlorobenzene           | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,2-Dichlorobenzene           | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene           | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,4-Dimethylphenol            | < 2.3         | U | 10  | 2.3 | ug/L  |
| 1,2-Dichloroethoxy)methane    | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,2-Dichlorophenol            | < 1.3         | U | 10  | 1.3 | ug/L  |
| 1,2,4-Trichlorobenzene        | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,3-Phthalene                 | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1-Chloroaniline               | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorobutadiene           | < 1.5         | U | 10  | 1.5 | ug/L  |
| 1-Chloro-3-methylphenol       | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1-Methylnaphthalene           | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorocyclopentadiene     | < 3.8         | U | 10  | 3.8 | ug/L  |
| 1,4,6-Trichlorophenol         | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,2,4,5-Trichlorophenol       | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1-Chloronaphthalene           | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1-Nitroaniline                | < 1.0         | U | 10  | 1.0 | ug/L  |
| Dimethylphthalate             | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1-Naphthylene                 | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,6-Dinitrotoluene            | < 1.0         | U | 10  | 1.0 | ug/L  |

## Chemtech Consulting Group

SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Client ID: 01075FBGW01

Sample ID: P3504-02

Date Collected: 7/26/02

Date Analyzed: 8/10/02

Date Extracted: 7/30/02

Dilution: 1

Analytical Method: 8270

Sample Wt/Wol: 1000.0

Injection Vol: 2

Associated Blank: PB073002-18B

Date Received: 7/29/02

Matrix: WATER

File ID: BD001661.D

Instrument ID: 5971D

Analytical Run ID: 1

Extract Vol: 1000

% Moisture: 100

| Parameter                  | Concentration | C | RDL | MDL   | Units |
|----------------------------|---------------|---|-----|-------|-------|
| TARGETS                    |               |   |     |       | ug/L  |
| 3-Nitroaniline             | < 1.2         | U | 10  | 1.2   | ug/L  |
| Acenaphthene               | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | < 2.0         | U | 10  | 2.0   | ug/L  |
| 4-Nitrophenol              | < 1.1         | U | 10  | 1.1   | ug/L  |
| Dibenzofuran               | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrotoluene         | < 1.1         | U | 10  | 1.1   | ug/L  |
| Diethylphthalate           | < 1.0         | U | 10  | 1.0   | ug/L  |
| 4-Chlorophenyl-phenylether | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | < 1.1         | U | 10  | 1.1   | ug/L  |
| 4-Nitroaniline             | < 2.4         | U | 10  | 2.4   | ug/L  |
| 4,6-Dinitro-2-methylphenol | < 1.2         | U | 10  | 1.2   | ug/L  |
| N-Nitrosodiphenylamine     | < 2.0         | U | 10  | 2.0   | ug/L  |
| 4-Bromophenyl-phenylether  | < 1.3         | U | 10  | 1.3   | ug/L  |
| Hexachlorobenzene          | < 1.1         | U | 10  | 1.1   | ug/L  |
| Pentachlorophenol          | < 1.9         | U | 10  | 1.9   | ug/L  |
| Phenanthrene               | < 1.0         | U | 10  | 1.0   | ug/L  |
| Anthracene                 | < 1.3         | U | 10  | 1.3   | ug/L  |
| Carbazole                  | < 0.420       | U | 10  | 0.420 | ug/L  |
| Di-n-butylphthalate        | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | < 1.0         | U | 10  | 1.0   | ug/L  |
| Pyrene                     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Burylbenzylphthalate       | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3,3'-Dichlorobenzidine     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | < 1.6         | U | 10  | 1.6   | ug/L  |
| bis(2-Ethylhexyl)phthalate | < 1.0         | U | 10  | 1.0   | ug/L  |
| Di-n-octyl phthalate       | < 1.5         | U | 10  | 1.5   | ug/L  |
| Benzo(b)fluoranthene       | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | < 2.6         | U | 10  | 2.6   | ug/L  |
| Benzo(a)pyrene             | < 1.5         | U | 10  | 1.5   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | < 1.6         | U | 10  | 1.6   | ug/L  |

# Chemtech Consulting Group

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P3504-02

Client ID: 01075FBGW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001661.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                             | Concentration | C     | RDL      | MDL | Units    |
|---------------------------------------|---------------|-------|----------|-----|----------|
| <b>TARGETS</b>                        |               |       |          |     |          |
| Dibenz(a,h)anthracene                 | < 1.5         | U     | 10       | 1.5 | ug/L     |
| Benzo(g,h,i)perylene                  | < 1.3         | U     | 10       | 1.3 | ug/L     |
| <b>SURROGATES</b>                     |               |       |          |     |          |
| 2-Fluorophenol                        | 65.48         | 22 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                             | 41.46         | 14 %  | 10 - 94  |     | SPK: 300 |
| Nitrobenzene-d5                       | 132.92        | 66 %  | 35 - 114 |     | SPK: 200 |
| 2-Fluorobiphenyl                      | 132.65        | 66 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol                  | 139.64        | 47 %  | 10 - 123 |     | SPK: 300 |
| Terphenyl-d14                         | 144.33        | 72 %  | 33 - 141 |     | SPK: 200 |
| <b>INTERNAL STANDARDS</b>             |               |       |          |     |          |
| 1,4-Dichlorobenzene-d4                | 59434         | 5.78  |          |     |          |
| Naphthalene-d8                        | 177974        | 8.24  |          |     |          |
| Acenaphthene-d10                      | 122663        | 11.96 |          |     |          |
| Phenanthrene-d10                      | 169644        | 15.13 |          |     |          |
| Chrysene-d12                          | 126919        | 20.91 |          |     |          |
| Perylene-d12                          | 112987        | 23.83 |          |     |          |
| <b>TENTATIVE IDENTIFIED COMPOUNDS</b> |               |       |          |     |          |
| ACP                                   | 4.8           | 1.5   | 3.40     |     | ug/L     |

OG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-03

Client ID: 01075WP01GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001661.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 980.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                  | Concentration | C | RDL | MDL | Units |
|----------------------------|---------------|---|-----|-----|-------|
| TRGETS                     |               |   |     |     |       |
| Phenol                     | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Chloroethyl ether        | < 1.2         | U | 10  | 1.2 | ug/L  |
| Chlorophenol               | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene        | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene        | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,4-Dichlorobenzene        | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenol             | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2'-oxybis(1-chloropropane) | < 1.0         | U | 10  | 1.8 | ug/L  |
| 2,4-Methylphenols          | < 1.8         | U | 10  | 1.0 | ug/L  |
| N-Nitroso-di-n-propylamine | < 1.0         | U | 10  | 1.1 | ug/L  |
| Hexachloroethane           | < 1.1         | U | 10  | 1.0 | ug/L  |
| Nitrobenzene               | < 1.0         | U | 10  | 1.0 | ug/L  |
| Phosphorone                | < 1.0         | U | 10  | 1.1 | ug/L  |
| 2-Nitrophenol              | < 1.1         | U | 10  | 2.3 | ug/L  |
| 2,4-Dimethylphenol         | < 2.3         | U | 10  | 1.0 | ug/L  |
| Bis(2-Chloroethoxy)methane | < 1.0         | U | 10  | 1.3 | ug/L  |
| 2,4-Dichlorophenol         | < 1.3         | U | 10  | 1.2 | ug/L  |
| 1,2,4-Trichlorobenzene     | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                | < 1.2         | U | 10  | 1.2 | ug/L  |
| 4-Chloroaniline            | < 1.2         | U | 10  | 1.5 | ug/L  |
| Hexachlorobutadiene        | < 1.5         | U | 10  | 1.1 | ug/L  |
| 4-Chloro-3-methylphenol    | < 1.1         | U | 10  | 1.2 | ug/L  |
| 2-Methylnaphthalene        | < 1.2         | U | 10  | 3.9 | ug/L  |
| Hexachlorocyclopentadiene  | < 3.9         | U | 10  | 1.0 | ug/L  |
| 2,4,6-Trichlorophenol      | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4,5-Trichlorophenol      | < 1.0         | U | 10  | 1.2 | ug/L  |
| 2-Chloronaphthalene        | < 1.2         | U | 10  | 1.0 | ug/L  |
| 2-Nitroaniline             | < 1.0         | U | 10  | 1.0 | ug/L  |
| Dimethylphthalate          | < 1.0         | U | 10  | 1.2 | ug/L  |
| Acenaphthylene             | < 1.2         | U | 10  | 1.0 | ug/L  |
| 2,6-Dinitrotoluene         | < 1.0         | U | 10  | 1.0 | ug/L  |

Client: Nelson, Pope & Voorhis, LLC

|                    |                     |                    |                      |
|--------------------|---------------------|--------------------|----------------------|
| Sample ID:         | <u>P3504-03</u>     | Client ID:         | <u>01075WP01GW01</u> |
| Date Collected:    | <u>7/26/02</u>      | Date Received:     | <u>7/29/02</u>       |
| Date Analyzed:     | <u>8/10/02</u>      | Matrix:            | <u>WATER</u>         |
| Date Extracted:    | <u>7/30/02</u>      | File ID:           | <u>BD001662.D</u>    |
| Dilution:          | <u>1</u>            | Instrument ID:     | <u>5971D</u>         |
| Analytical Method: | <u>8270</u>         | Analytical Run ID: | <u>1</u>             |
| Sample Wt/Wol:     | <u>980.0</u>        | Extract Vol:       | <u>1000</u>          |
| Injection Vol:     | <u>2</u>            | % Moisture:        | <u>100</u>           |
| Associated Blank:  | <u>PB073002-18B</u> |                    |                      |

| Parameter                  | Concentration | C | RDL | MDL   | Units |
|----------------------------|---------------|---|-----|-------|-------|
| 1. TARGETS                 |               |   |     |       |       |
| 3-Nitroaniline             | < 1.2         | U | 10  | 1.2   | ug/L  |
| A naphthene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2 Dinitrophenol            | < 2.0 U       | U | 10  | 2.0   | ug/L  |
| 4-Nitrophenol              | < 1.1         | U | 10  | 1.1   | ug/L  |
| I benzofuran               | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2 Dinitrotoluene           | < 1.1         | U | 10  | 1.1   | ug/L  |
| Diethylphthalate           | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chlorophenyl-phenylether   | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | < 1.1         | U | 10  | 1.1   | ug/L  |
| 4-Nitroaniline             | < 2.4         | U | 10  | 2.4   | ug/L  |
| 5-Dinitro-2-methylphenol   | < 1.2 U       | U | 10  | 1.2   | ug/L  |
| N-Nitrosodiphenylamine     | < 2.0         | U | 10  | 2.0   | ug/L  |
| Bromophenyl-phenylether    | < 1.3         | U | 10  | 1.3   | ug/L  |
| hexachlorobenzene          | < 1.1         | U | 10  | 1.1   | ug/L  |
| Pentachlorophenol          | < 1.9         | U | 10  | 1.9   | ug/L  |
| benanthrene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| Anthracene                 | < 1.3         | U | 10  | 1.3   | ug/L  |
| Carbazole                  | < 0.420       | U | 10  | 0.420 | ug/L  |
| Di-n-butylphthalate        | < 1.2         | U | 10  | 1.2   | ug/L  |
| fluoranthene               | < 1.0         | U | 10  | 1.0   | ug/L  |
| Pyrene                     | < 1.0         | U | 10  | 1.0   | ug/L  |
| n-Butylbenzylphthalate     | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3,3'-Dichlorobenzidine     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | < 1.6         | U | 10  | 1.6   | ug/L  |
| bis(2-Ethylhexyl)phthalate | < 1.0         | U | 10  | 1.0   | ug/L  |
| Di-n-octyl phthalate       | < 1.5         | U | 10  | 1.5   | ug/L  |
| Benzo(b)fluoranthene       | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | < 2.7         | U | 10  | 2.7   | ug/L  |
| Benzo(a)pyrene             | < 1.5         | U | 10  | 1.5   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | < 1.6         | U | 10  | 1.6   | ug/L  |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson.Pope &amp; Voorhis, LLC

Sample ID: P3504-03

Client ID: 01075WP01GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001662.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 980.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter            | Concentration | C     | RDL      | MDL | Units    |
|----------------------|---------------|-------|----------|-----|----------|
| TARGETS              |               |       |          |     |          |
| benz(a,h)anthracene  | < 1.5         | U     | 10       | 1.5 | ug/L     |
| benzo(g,h,i)perylene | < 1.3         | U     | 10       | 1.3 | ug/L     |
| SURROGATES           |               |       |          |     |          |
| fluorophenol         | 67.24         | 22 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5            | 45.09         | 15 %  | 10 - 94  |     | SPK: 300 |
| robenzene-d5         | 134.31        | 67 %  | 35 - 114 |     | SPK: 200 |
| fluorobiphenyl       | 136.48        | 68 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol | 174.56        | 58 %  | 10 - 123 |     | SPK: 300 |
| phenyl-d14           | 150.81        | 75 %  | 33 - 141 |     | SPK: 200 |
| INTERNAL STANDARDS   |               |       |          |     |          |
| -Dichlorobenzene-d4  | 58328         | 5.79  |          |     |          |
| phthalene-d8         | 168161        | 8.23  |          |     |          |
| Acenaphthene-d10     | 115772        | 11.96 |          |     |          |
| anthrene-d10         | 164990        | 15.12 |          |     |          |
| rysene-d12           | 122536        | 20.91 |          |     |          |
| Perylene-d12         | 107509        | 23.82 |          |     |          |
| IDENTIFIED COMPOUNDS |               |       |          |     |          |
| ACP                  | 8.2           | LD    | 3.39     |     | ug/L     |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

|                    |              |                    |               |
|--------------------|--------------|--------------------|---------------|
| Sample ID:         | P3504-05     | Client ID:         | 01075WP04GW01 |
| Date Collected:    | 7/26/02      | Date Received:     | 7/29/02       |
| Date Analyzed:     | 8/9/02       | Matrix:            | WATER         |
| Date Extracted:    | 7/30/02      | File ID:           | BD001641.D    |
| Dilution:          | 1            | Instrument ID:     | 5971D         |
| Analytical Method: | 8270         | Analytical Run ID: | 1             |
| Sample Wt/Wol:     | 990.0        | Extract Vol:       | 1000          |
| Injection Vol:     | 2            | % Moisture:        | 100           |
| Associated Blank:  | PB073002-18B |                    |               |

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| TARGETS                      |               |   |     |     |       |
| Phenol                       | < 1.0         | U | 10  | 1.0 | ug/L  |
| (2-Chloroethyl)ether         | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Chlorophenol               | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene          | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene          | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,4-Dichlorobenzene          | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenol               | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,2'-oxybis(1-chloropropane) | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Methyphenols             | < 1.8         | U | 10  | 1.8 | ug/L  |
| Nitroso-di-n-propylamine     | < 1.0         | U | 10  | 1.0 | ug/L  |
| Hexachloroethane             | < 1.1         | U | 10  | 1.1 | ug/L  |
| Nitrobenzene                 | < 1.0         | U | 10  | 1.0 | ug/L  |
| Phosphorone                  | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Nitrophenol                | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2,4-Dimethylphenol           | < 2.3         | U | 10  | 2.3 | ug/L  |
| (2-Chloroethoxy)methane      | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dichlorophenol           | < 1.3         | U | 10  | 1.3 | ug/L  |
| 2,4-Trichlorobenzene         | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                  | < 1.2         | U | 10  | 1.2 | ug/L  |
| 4-Chloroaniline              | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorobutadiene          | < 1.5         | U | 10  | 1.5 | ug/L  |
| 4-Chloro-3-methylphenol      | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2-Methylnaphthalene          | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorocyclopentadiene    | < 3.8         | U | 10  | 3.8 | ug/L  |
| 2,4,6-Trichlorophenol        | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4,5-Trichlorophenol        | < 1.0         | U | 10  | 1.0 | ug/L  |
| Chloronaphthalene            | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Nitroaniline               | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Methylphenylate            | < 1.0         | U | 10  | 1.0 | ug/L  |
| Benaphthylene                | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2,6-Dinitrotoluene           | < 1.0         | U | 10  | 1.0 | ug/L  |



SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P3504-05

Client ID: 01075WP04GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/9/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001641.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 990.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                  | Concentration | C | RDL | MDL   | Units |
|----------------------------|---------------|---|-----|-------|-------|
| TARGETS                    |               |   |     |       |       |
| Nitroaniline               | < 1.2         | U | 10  | 1.2   | ug/L  |
| Naphthalene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | < 2.0         | U | 10  | 2.0   | ug/L  |
| Nitrophenol                | < 1.1         | U | 10  | 1.1   | ug/L  |
| 2-Benzofuran               | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrotoluene         | < 1.1         | U | 10  | 1.1   | ug/L  |
| Ethylphthalate             | < 1.0         | U | 10  | 1.0   | ug/L  |
| 4-Chlorophenyl-phenylether | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Nitroaniline               | < 2.4         | U | 10  | 2.4   | ug/L  |
| 4,6-Dinitro-2-methylphenol | < 1.2         | U | 10  | 1.2   | ug/L  |
| Nitrosodiphenylamine       | < 2.0         | U | 10  | 2.0   | ug/L  |
| Bromophenyl-phenylether    | < 1.3         | U | 10  | 1.3   | ug/L  |
| Hexachlorobenzene          | < 1.1         | U | 10  | 1.1   | ug/L  |
| 2,4,6-Trichlorophenol      | < 1.9         | U | 10  | 1.9   | ug/L  |
| Benanthrene                | 2.1           | J | 10  | 1.0   | ug/L  |
| Anthracene                 | < 1.3         | U | 10  | 1.3   | ug/L  |
| Carbazole                  | < 0.420       | U | 10  | 0.420 | ug/L  |
| 2,4-Di-n-butylphthalate    | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | 2.8           | J | 10  | 1.0   | ug/L  |
| Pyrene                     | 2.0           | J | 10  | 1.0   | ug/L  |
| Butylbenzylphthalate       | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,3'-Dichlorobenzidine     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | < 1.6         | U | 10  | 1.6   | ug/L  |
| Diethylhexylphthalate      | 4.3           | J | 10  | 1.0   | ug/L  |
| Di-n-octyl phthalate       | < 1.5         | U | 10  | 1.5   | ug/L  |
| Benzo(b)fluoranthene       | 1.1           | J | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | < 2.6         | U | 10  | 2.6   | ug/L  |
| Benzo(a)pyrene             | < 1.5         | U | 10  | 1.5   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | < 1.6         | U | 10  | 1.6   | ug/L  |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-05

Client ID: 01075WP04GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/9/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001641.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 990.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                 | Concentration | C     | RDL      | MDL | Units    |
|---------------------------|---------------|-------|----------|-----|----------|
| TARGETS                   |               |       |          |     |          |
| benz(a,h)anthracene       | < 1.5         | U     | 10       | 1.5 | ug/L     |
| benzo(g,h,i)perylene      | < 1.3         | U     | 10       | 1.3 | ug/L     |
| SURROGATES                |               |       |          |     |          |
| Fluorophenol              | 84.69         | 28 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                 | 64.61         | 22 %  | 10 - 94  |     | SPK: 300 |
| m-crobenzene-d5           | 150.69        | 75 %  | 35 - 114 |     | SPK: 200 |
| Fluorobiphenyl            | 154.31        | 77 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol      | 173.03        | 58 %  | 10 - 123 |     | SPK: 300 |
| m-phenyl-d14              | 166.98        | 83 %  | 33 - 141 |     | SPK: 200 |
| INTERNAL STANDARDS        |               |       |          |     |          |
| 1,2-Dichlorobenzene-d4    | 59286         | 5.79  |          |     |          |
| 1,2,3,4-tetraphthalene-d8 | 174068        | 8.23  |          |     |          |
| Acenaphthene-d10          | 121924        | 11.96 |          |     |          |
| Benanthrene-d10           | 174055        | 15.11 |          |     |          |
| Chrysene-d12              | 129332        | 20.89 |          |     |          |
| Perylene-d12              | 107848        | 23.80 |          |     |          |

## IDENTITATIVE IDENTIFIED COMPOUNDS

|                   |     |    |   |       |      |
|-------------------|-----|----|---|-------|------|
| ACP               | 19  | ND | A | 3.39  | ug/L |
| Undecanol         | 2.4 |    | J | 10.74 | ug/L |
| Hexadecanoic acid | 6.3 |    | J | 16.60 | ug/L |
| Unknown           | 5.1 |    | J | 17.68 | ug/L |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-06

Client ID: 01075WP05GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001659.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                    | Concentration | C | RDL | MDL | Units |
|------------------------------|---------------|---|-----|-----|-------|
| TARGETS                      |               |   |     |     |       |
| enol                         | < 1.0         | U | 10  | 1.0 | ug/L  |
| bis(2-Chloroethyl)ether      | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Chlorophenol               | < 1.1         | U | 10  | 1.1 | ug/L  |
| 1,2-Dichlorobenzene          | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1,3-Dichlorobenzene          | < 1.2         | U | 10  | 1.2 | ug/L  |
| 1,4-Dichlorobenzene          | < 1.0         | U | 10  | 1.0 | ug/L  |
| Methylphenol                 | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,2'-oxybis(1-chloropropane) | < 1.0         | U | 10  | 1.0 | ug/L  |
| 4-Methylphenols              | < 1.8         | U | 10  | 1.8 | ug/L  |
| Nitroso-di-n-propylamine     | < 1.0         | U | 10  | 1.0 | ug/L  |
| Hexachloroethane             | < 1.1         | U | 10  | 1.1 | ug/L  |
| Bromobenzene                 | < 1.0         | U | 10  | 1.0 | ug/L  |
| Phosphorone                  | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2-Nitrophenol                | < 1.1         | U | 10  | 1.1 | ug/L  |
| 2,4-Dimethylphenol           | < 2.3         | U | 10  | 2.3 | ug/L  |
| bis(2-Chloroethoxy)methane   | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,4-Dichlorophenol           | < 1.3         | U | 10  | 1.3 | ug/L  |
| 2,4-Trichlorobenzene         | < 1.2         | U | 10  | 1.2 | ug/L  |
| Naphthalene                  | < 1.2         | U | 10  | 1.2 | ug/L  |
| Chloroaniline                | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorobutadiene          | < 1.5         | U | 10  | 1.5 | ug/L  |
| 4-Chloro-3-methylphenol      | < 1.1         | U | 10  | 1.1 | ug/L  |
| Methylnaphthalene            | < 1.2         | U | 10  | 1.2 | ug/L  |
| Hexachlorocyclopentadiene    | < 3.8         | U | 10  | 3.8 | ug/L  |
| 2,4,6-Trichlorophenol        | < 1.0         | U | 10  | 1.0 | ug/L  |
| 2,5-Trichlorophenol          | < 1.0         | U | 10  | 1.0 | ug/L  |
| 1-Chloronaphthalene          | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2-Nitroaniline               | < 1.0         | U | 10  | 1.0 | ug/L  |
| Methylphenylthiolate         | < 1.0         | U | 10  | 1.0 | ug/L  |
| Acenaphthylene               | < 1.2         | U | 10  | 1.2 | ug/L  |
| 2,6-Dinitrotoluene           | < 1.0         | U | 10  | 1.0 | ug/L  |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-06

Client ID: 01075WP05GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001659.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                  | Concentration | C | RDL | MDL   | Units |
|----------------------------|---------------|---|-----|-------|-------|
| TARGETS                    |               |   |     |       |       |
| Nitroaniline               | < 1.2         | U | 10  | 1.2   | ug/L  |
| Naphthalene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | < 2.0         | U | 10  | 2.0   | ug/L  |
| Nitrophenol                | < 1.1         | U | 10  | 1.1   | ug/L  |
| Benzenofuran               | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrotoluene         | < 1.1         | U | 10  | 1.1   | ug/L  |
| Diethylphthalate           | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chlorophenyl-phenylether   | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Nitroaniline               | < 2.4         | U | 10  | 2.4   | ug/L  |
| 4,6-Dinitro-2-methylphenol | < 1.2         | U | 10  | 1.2   | ug/L  |
| Nitrosodiphenylamine       | < 2.0         | U | 10  | 2.0   | ug/L  |
| Bromophenyl-phenylether    | < 1.3         | U | 10  | 1.3   | ug/L  |
| Hexachlorobenzene          | < 1.1         | U | 10  | 1.1   | ug/L  |
| 2,4-Dinitrochlorophenol    | < 1.9         | U | 10  | 1.9   | ug/L  |
| Benanthrene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| Anthracene                 | < 1.3         | U | 10  | 1.3   | ug/L  |
| Carbazole                  | < 0.420       | U | 10  | 0.420 | ug/L  |
| n-Butylphthalate           | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | < 1.0         | U | 10  | 1.0   | ug/L  |
| Pyrene                     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Butylbenzylphthalate       | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3,3'-Dichlorobenzidine     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(a)anthracene         | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | < 1.6         | U | 10  | 1.6   | ug/L  |
| 2-(2-Ethylhexyl)phthalate  | < 1.0         | U | 10  | 1.0   | ug/L  |
| n-Octyl phthalate          | < 1.5         | U | 10  | 1.5   | ug/L  |
| Benzo(b)fluoranthene       | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benzo(k)fluoranthene       | < 2.6         | U | 10  | 2.6   | ug/L  |
| Benzo(a)pyrene             | < 1.5         | U | 10  | 1.5   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | < 1.6         | U | 10  | 1.6   | ug/L  |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-06

Client ID: 01075WP05GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001659.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                       | Concentration | C     | RDL      | MDL | Units    |
|---------------------------------|---------------|-------|----------|-----|----------|
| TARGETS                         |               |       |          |     |          |
| benz(a,h)anthracene             | < 1.5         | U     | 10       | 1.5 | ug/L     |
| benzo(g,h,i)perylene            | < 1.5         | U     | 10       | 1.3 | ug/L     |
| SURROGATES                      |               |       |          |     |          |
| Fluorophenol                    | 66.34         | 22 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                       | 50.55         | 17 %  | 10 - 94  |     | SPK: 300 |
| trobenzene-d5                   | 157.1         | 79 %  | 35 - 114 |     | SPK: 200 |
| Fluorobiphenyl                  | 163.03        | 82 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol            | 141.89        | 47 %  | 10 - 123 |     | SPK: 300 |
| phenyl-d14                      | 112.07        | 56 %  | 33 - 141 |     | SPK: 200 |
| INTERNAL STANDARDS              |               |       |          |     |          |
| 4-Dichlorobenzene-d4            | 59325         | 5.79  |          |     |          |
| phthalene-d8                    | 175014        | 8.23  |          |     |          |
| Acenaphthene-d10                | 118691        | 11.96 |          |     |          |
| benanthrene-d10                 | 167665        | 15.12 |          |     |          |
| Chrysene-d12                    | 126095        | 20.91 |          |     |          |
| Perylene-d12                    | 112205        | 23.83 |          |     |          |
| DEFINITIVE IDENTIFIED COMPOUNDS |               |       |          |     |          |
| tert-Butyl Hydroperoxide        | 7.4           | J     | 3.40     |     | ug/L     |
| hexadecanoic acid               | 2.6           | J     | 16.60    |     | ug/L     |

SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope & Voorhis, LLC

Sample ID: P3504-07

Client ID: 01075WP06GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001663.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter | Concentration | C | RDL | MDL | Units |
|-----------|---------------|---|-----|-----|-------|
|-----------|---------------|---|-----|-----|-------|

TARGETS

|                              |       |   |    |     |      |
|------------------------------|-------|---|----|-----|------|
| Phenol                       | < 1.0 | U | 10 | 1.0 | ug/L |
| 1,2-Dichloroethyl ether      | < 1.2 | U | 10 | 1.2 | ug/L |
| 2-Chlorophenol               | < 1.1 | U | 10 | 1.1 | ug/L |
| 1,3-Dichlorobenzene          | < 1.0 | U | 10 | 1.0 | ug/L |
| 1,4-Dichlorobenzene          | < 1.2 | U | 10 | 1.2 | ug/L |
| 1,4-Dichlorobenzene          | < 1.0 | U | 10 | 1.0 | ug/L |
| Methylphenol                 | < 1.0 | U | 10 | 1.0 | ug/L |
| 1,2'-oxybis(1-chloropropane) | < 1.0 | U | 10 | 1.0 | ug/L |
| 2,4-Methylphenols            | < 1.8 | U | 10 | 1.8 | ug/L |
| Nitroso-di-n-propylamine     | < 1.0 | U | 10 | 1.0 | ug/L |
| Hexachloroethane             | < 1.1 | U | 10 | 1.1 | ug/L |
| Toluene                      | < 1.0 | U | 10 | 1.0 | ug/L |
| Phosphorane                  | < 1.0 | U | 10 | 1.0 | ug/L |
| 2-Nitrophenol                | < 1.1 | U | 10 | 1.1 | ug/L |
| 2,4-Dimethylphenol           | < 2.3 | U | 10 | 2.3 | ug/L |
| 1,2-(2-Chloroethoxy)methane  | < 1.0 | U | 10 | 1.0 | ug/L |
| 2,4-Dichlorophenol           | < 1.3 | U | 10 | 1.3 | ug/L |
| 1,3,4-Trichlorobenzene       | < 1.2 | U | 10 | 1.2 | ug/L |
| Naphthalene                  | < 1.2 | U | 10 | 1.2 | ug/L |
| 4-Chloroaniline              | < 1.2 | U | 10 | 1.2 | ug/L |
| Hexachlorobutadiene          | < 1.5 | U | 10 | 1.5 | ug/L |
| 4-Chloro-3-methylphenol      | < 1.1 | U | 10 | 1.1 | ug/L |
| 2-Methylnaphthalene          | < 1.2 | U | 10 | 1.2 | ug/L |
| Hexachlorocyclopentadiene    | < 3.8 | U | 10 | 3.8 | ug/L |
| 2,4,6-Trichlorophenol        | < 1.0 | U | 10 | 1.0 | ug/L |
| 1,3,5-Trichlorophenol        | < 1.0 | U | 10 | 1.0 | ug/L |
| Chloronaphthalene            | < 1.2 | U | 10 | 1.2 | ug/L |
| 2-Nitroaniline               | < 1.0 | U | 10 | 1.0 | ug/L |
| 2-methylphenol               | < 1.0 | U | 10 | 1.0 | ug/L |
| Benaphthylene                | < 1.2 | U | 10 | 1.2 | ug/L |
| 2,6-Dinitrotoluene           | < 1.0 | U | 10 | 1.0 | ug/L |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Neison, Pope &amp; Voorhis, LLC

Sample ID: P3504-07

Client ID: 01075WP06GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001663.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                  | Concentration | C | RDL | MDL   | Units |
|----------------------------|---------------|---|-----|-------|-------|
| TARGETS                    |               |   |     |       |       |
| Nitroaniline               | < 1.2         | U | 10  | 1.2   | ug/L  |
| Benaphthene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrophenol          | < 2.0         | U | 10  | 2.0   | ug/L  |
| Nitrophenol                | < 1.1         | U | 10  | 1.1   | ug/L  |
| Benzofuran                 | < 1.0         | U | 10  | 1.0   | ug/L  |
| 2,4-Dinitrotoluene         | < 1.1         | U | 10  | 1.1   | ug/L  |
| Ethylphthalate             | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chlorophenyl-phenylether   | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluorene                   | < 1.1         | U | 10  | 1.1   | ug/L  |
| Nitroaniline               | < 2.4         | U | 10  | 2.4   | ug/L  |
| 2,4-Dinitro-2-methylphenol | < 1.2         | U | 10  | 1.2   | ug/L  |
| N-Nitrosodiphenylamine     | < 2.0         | U | 10  | 2.0   | ug/L  |
| Bromophenyl-phenylether    | < 1.3         | U | 10  | 1.3   | ug/L  |
| Hexachlorobenzene          | < 1.1         | U | 10  | 1.1   | ug/L  |
| 2,4-Dichlorophenol         | < 1.9         | U | 10  | 1.9   | ug/L  |
| Benanthrene                | < 1.0         | U | 10  | 1.0   | ug/L  |
| Anthracene                 | < 1.3         | U | 10  | 1.3   | ug/L  |
| Indazole                   | < 0.420       | U | 10  | 0.420 | ug/L  |
| n-Butylphthalate           | < 1.2         | U | 10  | 1.2   | ug/L  |
| Fluoranthene               | < 1.0         | U | 10  | 1.0   | ug/L  |
| Pyrene                     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Ethylbenzylphthalate       | < 1.0         | U | 10  | 1.0   | ug/L  |
| 3,3'-Dichlorobenzidine     | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benz(a)anthracene          | < 1.0         | U | 10  | 1.0   | ug/L  |
| Chrysene                   | < 1.6         | U | 10  | 1.6   | ug/L  |
| 2-(2-Ethylhexyl)phthalate  | < 1.0         | U | 10  | 1.0   | ug/L  |
| n-Octyl phthalate          | < 1.5         | U | 10  | 1.5   | ug/L  |
| Benzo(b)fluoranthene       | < 1.0         | U | 10  | 1.0   | ug/L  |
| Benz(k)fluoranthene        | < 2.6         | U | 10  | 2.6   | ug/L  |
| Benz(a)pyrene              | < 1.5         | U | 10  | 1.5   | ug/L  |
| Indeno(1,2,3-cd)pyrene     | < 1.6         | U | 10  | 1.6   | ug/L  |

## SVOC-TCL BNA

SDG No.: P3504-01

Client: Nelson, Pope &amp; Voorhis, LLC

Sample ID: P3504-07

Client ID: 01075WP06GW01

Date Collected: 7/26/02

Date Received: 7/29/02

Date Analyzed: 8/10/02

Matrix: WATER

Date Extracted: 7/30/02

File ID: BD001663.D

Dilution: 1

Instrument ID: 5971D

Analytical Method: 8270

Analytical Run ID: 1

Sample Wt/Wol: 1000.0

Extract Vol: 1000

Injection Vol: 2

% Moisture: 100

Associated Blank: PB073002-18B

| Parameter                         | Concentration | C     | RDL      | MDL | Units    |
|-----------------------------------|---------------|-------|----------|-----|----------|
| TARGETS                           |               |       |          |     |          |
| benz(a,h)anthracene               | < 1.5         | U     | 10       | 1.5 | ug/L     |
| benzo(g,h,i)perylene              | < 1.3         | U     | 10       | 1.3 | ug/L     |
| SURROGATES                        |               |       |          |     |          |
| Fluorophenol                      | 54.33         | 18 %  | 21 - 100 |     | SPK: 300 |
| Phenol-d5                         | 43.62         | 15 %  | 10 - 94  |     | SPK: 300 |
| Bromobenzene-d5                   | 139.67        | 70 %  | 35 - 114 |     | SPK: 200 |
| Fluorobiphenyl                    | 137.55        | 69 %  | 43 - 116 |     | SPK: 200 |
| 2,4,6-Tribromophenol              | 123.49        | 41 %  | 10 - 123 |     | SPK: 300 |
| Biphenyl-d14                      | 136.62        | 68 %  | 33 - 141 |     | SPK: 200 |
| INTERNAL STANDARDS                |               |       |          |     |          |
| 1,4-Dichlorobenzene-d4            | 57102         | 5.78  |          |     |          |
| Phthalene-d8                      | 170851        | 8.24  |          |     |          |
| Acenaphthene-d10                  | 116520        | 11.96 |          |     |          |
| Benanthrene-d10                   | 162495        | 15.12 |          |     |          |
| Pyrene-d12                        | 123311        | 20.91 |          |     |          |
| Perylene-d12                      | 111198        | 23.83 |          |     |          |
| IDENTITATIVE IDENTIFIED COMPOUNDS |               |       |          |     |          |
| ACP                               | 16            | A     | 3.38     |     | ug/L     |
| Lysine, N-methyl-N-(1-oxododecyl) | 3.4           | J     | 16.60    |     | ug/L     |



## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P3504

Method Type: SW846

Sample ID: P3504-02

Client ID: 01075FBGW01

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P3504

Matrix: WATER

Date Received: 7/29/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 1327-90-5 | Aluminum  | 18.4          | ug/L  | U | U    | P  | 18.4 | P1            | P180502        |
| 7440-36-0 | Antimony  | 3.8           | ug/L  | U |      | P  | 3.8  | P1            | P180502        |
| 7440-38-2 | Arsenic   | 4.5           | ug/L  | U |      | P  | 4.5  | P1            | P180502        |
| 7440-39-3 | Barium    | 9.9           | ug/L  | U |      | P  | 9.9  | P1            | P180502        |
| 7440-41-7 | Beryllium | 0.10          | ug/L  | U |      | P  | 0.10 | P1            | P180502        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U |      | P  | 0.80 | P1            | P180502        |
| 7440-70-2 | Calcium   | 36.2          | ug/L  | U |      | P  | 36.2 | P1            | P180502        |
| 7440-47-3 | Chromium  | 1.4           | ug/L  | U | U    | P  | 1.4  | P1            | P180502        |
| 7440-48-4 | Cobalt    | 0.70          | ug/L  | U |      | P  | 0.70 | P1            | P180502        |
| 7440-50-8 | Copper    | 3.6           | ug/L  | U |      | P  | 3.6  | P1            | P180502        |
| 7439-89-6 | Iron      | 22.2          | ug/L  | U |      | P  | 22.2 | P1            | P180502        |
| 7440-19-2 | Lead      | 3.0           | ug/L  | U |      | P  | 3.0  | P1            | P180502        |
| 7439-95-4 | Magnesium | 7.0           | ug/L  | U |      | P  | 7.0  | P1            | P180502        |
| 7440-96-5 | Manganese | 0.20          | ug/L  | U | U    | P  | 0.20 | P1            | P180502        |
| 7440-97-6 | Mercury   | 0.20          | ug/L  | U |      | CV | 0.20 | CV1           | 080402E        |
| 7440-02-0 | Nickel    | 2.0           | ug/L  | U | U    | P  | 2.0  | P1            | P180502        |
| 7440-09-7 | Potassium | 27.3          | ug/L  | U | U    | P  | 27.3 | P1            | P180502        |
| 7440-49-2 | Selenium  | 0.90          | ug/L  | U |      | P  | 0.90 | P1            | P180502        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P180502        |
| 7440-23-5 | Sodium    | 217           | ug/L  | U |      | P  | 217  | P1            | P180502        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P180502        |
| 7440-62-2 | Vanadium  | 1.4           | ug/L  | U |      | P  | 1.4  | P1            | P180502        |
| 7440-66-6 | Zinc      | 1.8           | ug/L  | U |      | P  | 1.8  | P1            | P180502        |

## METALS

- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson, Pope &amp; Voorhis, LLC

SDG No.: P3504

Method Type: SW846

Sample ID: P3504-03

Client ID: 01075WP01GW01

Contract: Nelson, Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P3504

Matrix: WATER

Date Received: 7/29/02

Level: LOW

% Solids:

| CAS No.  | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 9-90-5   | Aluminum  | 161000        | ug/L  | J | *    | P  | 18.4 | P1            | P180502        |
| 440-36-0 | Antimony  | 12.0          | ug/L  | B |      | P  | 3.8  | P1            | P180502        |
| 440-38-2 | Arsenic   | 191           | ug/L  |   |      | P  | 4.5  | P1            | P180502        |
| 440-39-3 | Barium    | 843           | ug/L  |   |      | P  | 9.9  | P1            | P180502        |
| 440-41-7 | Beryllium | 12.2          | ug/L  |   |      | P  | 0.10 | P1            | P180502        |
| 440-43-9 | Cadmium   | 5.9           | ug/L  |   |      | P  | 0.80 | P1            | P180502        |
| 440-70-2 | Calcium   | 33000         | ug/L  |   |      | P  | 36.2 | P1            | P180502        |
| 440-47-3 | Chromium  | 1140          | ug/L  | J | *    | P  | 1.4  | P1            | P180502        |
| 440-48-4 | Cobalt    | 39.9          | ug/L  | B |      | P  | 0.70 | P1            | P180502        |
| 440-50-8 | Copper    | 226           | ug/L  |   |      | P  | 3.6  | P1            | P180502        |
| 440-89-6 | Iron      | 436000        | ug/L  |   |      | P  | 22.2 | P1            | P180502        |
| 440-92-1 | Lead      | 113           | ug/L  |   |      | P  | 3.0  | P1            | P180502        |
| 439-95-4 | Magnesium | 12300         | ug/L  |   |      | P  | 7.0  | P1            | P180502        |
| 440-96-5 | Manganese | 1330          | ug/L  | J | *    | P  | 0.20 | P1            | P180502        |
| 440-97-6 | Mercury   | 0.56          | ug/L  |   |      | CV | 0.20 | CV1           | 080402E        |
| 440-02-0 | Nickel    | 243           | ug/L  | J | N*   | P  | 2.0  | P1            | P180502        |
| 440-09-7 | Potassium | 7720          | ug/L  | J | E    | P  | 27.3 | P1            | P180502        |
| 782-49-2 | Selenium  | 0.90          | ug/L  | U |      | P  | 0.90 | P1            | P180502        |
| 440-22-4 | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P180502        |
| 440-23-5 | Sodium    | 12300         | ug/L  |   |      | P  | 217  | P1            | P180502        |
| 440-28-0 | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P180502        |
| 440-62-2 | Vanadium  | 362           | ug/L  |   |      | P  | 1.4  | P1            | P180502        |
| 440-66-6 | Zinc      | 327           | ug/L  |   |      | P  | 1.8  | P1            | P180502        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson Pope &amp; Voorhis, LLC

SDG No.: P3504

Method Type: SW846

Sample ID: P3504-05

Client ID: 01075WP04GW01

Contract: Nelson Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P3504

Matrix: WATER

Date Received: 7/29/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C   | Qual | M  | BL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|-----|------|----|------|---------------|----------------|
| 9-90-5    | Aluminum  | 2600          | ug/L  | J   | *    | P  | 18.4 | P1            | P180502        |
| 7440-36-0 | Antimony  | 5.5           | ug/L  | B   |      | P  | 3.8  | P1            | P180502        |
| 7440-38-2 | Arsenic   | 5.6           | ug/L  | B   |      | P  | 4.5  | P1            | P180502        |
| 7440-39-3 | Barium    | 104           | ug/L  | B   |      | P  | 9.9  | P1            | P180502        |
| 7440-41-7 | Beryllium | 0.38          | ug/L  | B   |      | P  | 0.10 | P1            | P180502        |
| 7440-43-9 | Cadmium   | 0.80          | ug/L  | U   |      | P  | 0.80 | P1            | P180502        |
| 7440-70-2 | Calcium   | 7110          | ug/L  |     |      | P  | 36.2 | P1            | P180502        |
| 7440-47-3 | Chromium  | 463           | ug/L  | J   | *    | P  | 1.4  | P1            | P180502        |
| 7440-48-4 | Cobalt    | 3.5           | ug/L  | B   |      | P  | 0.70 | P1            | P180502        |
| 7440-50-8 | Copper    | 34.3          | ug/L  |     |      | P  | 3.6  | P1            | P180502        |
| 7440-59-6 | Iron      | 22500         | ug/L  |     |      | P  | 22.2 | P1            | P180502        |
| 7440-92-1 | Lead      | 10.3          | ug/L  | U   |      | P  | 3.0  | P1            | P180502        |
| 7439-95-4 | Magnesium | 2000          | ug/L  | B   |      | P  | 7.0  | P1            | P180502        |
| 7440-96-5 | Manganese | 193           | ug/L  | J   | *    | P  | 0.20 | P1            | P180502        |
| 7440-97-6 | Mercury   | 0.20          | ug/L  | U   |      | CV | 0.20 | CV1           | 080402E        |
| 7440-02-0 | Nickel    | 215           | ug/L  | J   | N*   | P  | 2.0  | P1            | P180502        |
| 7440-09-7 | Potassium | 2150          | ug/L  | J B | E    | P  | 27.3 | P1            | P180502        |
| 782-49-2  | Selenium  | 1.0           | ug/L  | J B |      | P  | 0.90 | P1            | P180502        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U   |      | P  | 3.7  | P1            | P180502        |
| 7440-23-5 | Sodium    | 8470          | ug/L  |     |      | P  | 217  | P1            | P180502        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U   |      | P  | 5.3  | P1            | P180502        |
| 7440-62-2 | Vanadium  | 23.6          | ug/L  | B   |      | P  | 1.4  | P1            | P180502        |
| 7440-66-6 | Zinc      | 208           | ug/L  |     |      | P  | 1.8  | P1            | P180502        |

## METALS

- 1 -

## INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson.Pope &amp; Voorhis, LLC

SDG No.: P3504

Method Type: SW846

Sample ID: P3504-06

Client ID: 01075WP05GW01

Contract: Nelson.Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P3504

Matrix: WATER

Date Received: 7/29/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C   | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|-----|------|----|------|---------------|----------------|
| 7429-90-5 | Aluminum  | 56400         | ug/L  | J   | *    | P  | 18.4 | P1            | P180502        |
| 7440-36-0 | Antimony  | 9.1           | ug/L  | B   |      | P  | 3.8  | P1            | P180502        |
| 7440-38-2 | Arsenic   | 71.7          | ug/L  |     |      | P  | 4.5  | P1            | P180502        |
| 7440-39-3 | Barium    | 433           | ug/L  |     |      | P  | 9.9  | P1            | P180502        |
| 7440-41-7 | Beryllium | 5.7           | ug/L  |     |      | P  | 0.10 | P1            | P180502        |
| 7440-43-9 | Cadmium   | 2.5           | ug/L  | B   |      | P  | 0.80 | P1            | P180502        |
| 7440-70-2 | Calcium   | 40400         | ug/L  |     |      | P  | 36.2 | P1            | P180502        |
| 7440-47-3 | Chromium  | 1240          | ug/L  | J   | *    | P  | 1.4  | P1            | P180502        |
| 7440-48-4 | Cobalt    | 15.8          | ug/L  | B   |      | P  | 0.70 | P1            | P180502        |
| 7440-50-8 | Copper    | 154           | ug/L  |     |      | P  | 3.6  | P1            | P180502        |
| 7440-89-6 | Iron      | 258000        | ug/L  |     |      | P  | 22.2 | P1            | P180502        |
| 7440-92-1 | Lead      | 96.3          | ug/L  |     |      | P  | 3.0  | P1            | P180502        |
| 7439-95-4 | Magnesium | 13000         | ug/L  |     |      | P  | 7.0  | P1            | P180502        |
| 7440-96-5 | Manganese | 652           | ug/L  | J   | *    | P  | 0.20 | P1            | P180502        |
| 7440-97-6 | Mercury   | 0.65          | ug/L  |     |      | CV | 0.20 | CV1           | 080402E        |
| 7440-02-0 | Nickel    | 533           | ug/L  | J   | N*   | P  | 2.0  | P1            | P180502        |
| 7440-09-7 | Potassium | 4350          | ug/L  | J B | E    | P  | 27.3 | P1            | P180502        |
| 782-49-2  | Selenium  | 0.90          | ug/L  | U   |      | P  | 0.90 | P1            | P180502        |
| 7440-22-4 | Silver    | 3.7           | ug/L  | U   |      | P  | 3.7  | P1            | P180502        |
| 7440-23-5 | Sodium    | 16400         | ug/L  |     |      | P  | 217  | P1            | P180502        |
| 7440-28-0 | Thallium  | 5.3           | ug/L  | U   |      | P  | 5.3  | P1            | P180502        |
| 7440-62-2 | Vanadium  | 462           | ug/L  |     |      | P  | 1.4  | P1            | P180502        |
| 7440-66-6 | Zinc      | 99.0          | ug/L  |     |      | P  | 1.8  | P1            | P180502        |

## METALS

- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Nelson.Pope &amp; Voorhis, LLC

SDG No.: P3504

Method Type: SW846

Sample ID: P3504-07

Client ID: 01075WP06GW01

Contract: Nelson.Pope &amp; Voorhis, LLC

Lab Code: CHEMED

Case No.:

SAS No.: P3504

Matrix: WATER

Date Received: 7/29/02

Level: LOW

% Solids:

| CAS No.   | Analyte   | Concentration | Units | C | Qual | M  | DL   | Instrument ID | Analytical Run |
|-----------|-----------|---------------|-------|---|------|----|------|---------------|----------------|
| 7439-90-5 | Aluminum  | 68000         | ug/L  | J | *    | P  | 18.4 | P1            | P180502        |
| 7440-36-0 | Antimony  | 11.8          | ug/L  | B |      | P  | 3.8  | P1            | P180502        |
| 7440-38-2 | Arsenic   | 142           | ug/L  |   |      | P  | 4.5  | P1            | P180502        |
| 7440-39-3 | Barium    | 458           | ug/L  |   |      | P  | 9.9  | P1            | P180502        |
| 7440-41-7 | Beryllium | 5.4           | ug/L  |   |      | P  | 0.10 | P1            | P180502        |
| 7440-43-9 | Cadmium   | 2.9           | ug/L  | B |      | P  | 0.80 | P1            | P180502        |
| 7440-70-2 | Calcium   | 39900         | ug/L  |   |      | P  | 36.2 | P1            | P180502        |
| 7440-47-3 | Chromium  | 1020          | ug/L  | J | *    | P  | 1.4  | P1            | P180502        |
| 7440-48-4 | Cobalt    | 11.5          | ug/L  | B |      | P  | 0.70 | P1            | P180502        |
| 7440-50-8 | Copper    | 154           | ug/L  |   |      | P  | 3.6  | P1            | P180502        |
| 7440-89-6 | Iron      | 295000        | ug/L  |   |      | P  | 22.2 | P1            | P180502        |
| 7440-92-1 | Lead      | 73.2          | ug/L  |   |      | P  | 3.0  | P1            | P180502        |
| 7439-95-4 | Magnesium | 14500         | ug/L  |   |      | P  | 7.0  | P1            | P180502        |
| 7440-96-5 | Manganese | 539           | ug/L  | J | *    | P  | 0.20 | P1            | P180502        |
| 7440-97-6 | Mercury   | 0.54          | ug/L  |   |      | CV | 0.20 | CV1           | 080402E        |
| 440-02-0  | Nickel    | 432           | ug/L  | J | N*   | P  | 2.0  | P1            | P180502        |
| 440-09-7  | Potassium | 5100          | ug/L  | J | E    | P  | 27.3 | P1            | P180502        |
| 782-49-2  | Selenium  | 2.2           | ug/L  | B |      | P  | 0.90 | P1            | P180502        |
| 440-22-4  | Silver    | 3.7           | ug/L  | U |      | P  | 3.7  | P1            | P180502        |
| 440-23-5  | Sodium    | 14900         | ug/L  |   |      | P  | 217  | P1            | P180502        |
| 440-28-0  | Thallium  | 5.3           | ug/L  | U |      | P  | 5.3  | P1            | P180502        |
| 440-62-2  | Vanadium  | 591           | ug/L  |   |      | P  | 1.4  | P1            | P180502        |
| 440-66-6  | Zinc      | 101           | ug/L  |   |      | P  | 1.8  | P1            | P180502        |

# Premier Environmental Services

## APPENDIX C



287 Sheffield Street, Mountlake, NJ 07632  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

CHEMTECH JOB NO.: P3504 ASB  
CHEMTECH QUOTE NO.:

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION PROJECT INFORMATION BILLING INFORMATION

REPORT TO BE SENT TO  
COMPANY: NELSON, Pore & Voorn  
ADDRESS: 572 Walnut Street - Apt 2D  
CITY: Mt Lake STATE: NJ ZIP: 07477  
ATTENTION: Forc. Analysis  
PHONE: (908) 789-8900 FAX:   
PROJECT NAME: Comm. Complaints 327 NEWS RD  
PROJECT NO.: 01075  
PROJECT MANAGER: Forc. Analysis  
LOCATION: Mountlake, NJ  
BILL TO:  PO #:   
ADDRESS:   
CITY:  STATE:  ZIP:   
ATTENTION:  PHONE:

DATA TURNAROUND INFORMATION DATA DELIVERABLE INFORMATION ANALYSIS

ANALYSIS  
1 2 3 4 5 6 7 8 9  
8260 8270 6010  
RESULTS ONLY ☐ NY STATE CATEGORY A  
RESULTS PLUS QC ☐ NY STATE CATEGORY B  
REGULATORY FORMAT, STATE:   
NEW JERSEY REDUCED DELIVERABLES ☐  
CLP ☐  
EDD FORMAT:

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE | SAMPLE COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |
|--------------------|-------------------------------|---------------|-------------|-------------------|------|--------------|---------------|---|---|---|---|---|---|---|---|----------|
|                    |                               |               |             | DATE              | TIME |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |
| 01                 | 01075 TB 6201                 | 16.0          | ✓           | 7/26/02           |      | 2            | ✓             |   |   |   |   |   |   |   |   |          |
| 02                 | 01075 FB 6201                 | 16.0          | ✓           | 7/26/02           | 0830 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 03                 | 01075 WP 6201                 | 16.0          | ✓           | 7/26/02           | 1025 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 04                 | 01075 WP 6202                 | 16.0          | ✓           | 7/26/02           | 1355 | 2            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 05                 | 01075 WP 6203                 | 16.0          | ✓           | 7/26/02           | 1455 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 06                 | 01075 WP 6204                 | 16.0          | ✓           | 7/26/02           | 1645 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |
| 07                 | 01075 WP 6205                 | 16.0          | ✓           | 7/26/02           | 1745 | 4            | ✓             | ✓ | ✓ |   |   |   |   |   |   |          |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RECEIVED BY: 1. [Signature]  
RECEIVED BY: 2. [Signature]  
RECEIVED FOR LAB BY: 3. [Signature]  
DATE/TIME: 7/29/02  
DATE/TIME: 7/29/02  
DATE/TIME: 7/29/02  
SHIPPED VIA: CLIENT ☐ HAND DELIVERED ☐ OVERNIGHT ☐ OVERNIGHT ☐ PICKED UP ☐ OVERNIGHT ☐  
Comments: Hold worms 50-60% wet for approx. 10 min.  
Shipment Complete: ☐ YES ☐ NO



(908) 789-8900 Fax (908) 789-8922

[www.chemtech.net](http://www.chemtech.net)

Chemical Equilibria:

CHEMTECH QUOTE NO. 4

P3504NSB

| CLIENT INFORMATION                                                                                                                                                                            |                                  |                                                        | PROJECT INFORMATION                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                |                      | BILLING INFORMATION                                                                    |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------|---|---|---|---|---|---|---|---|----------|---------------------------------------------------------------------------------------------------------------|
| REPORT TO BE SENT TO:                                                                                                                                                                         |                                  |                                                        | COMP. COMPANY:                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                |                      | BILL TO:                                                                               |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| COMPANY: <u>Neptune Paper Products</u>                                                                                                                                                        |                                  |                                                        | PROJECT NAME: <u>327 New Land Rd</u>                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |                      | PO #:                                                                                  |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| ADDRESS: <u>372 Water Wheel Rd</u>                                                                                                                                                            |                                  |                                                        | PROJECT NO.: <u>01075</u>                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                |                      | ADDRESS:                                                                               |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| CITY: <u>Malver</u> STATE: <u>NY</u> ZIP: <u>11747</u>                                                                                                                                        |                                  |                                                        | PROJECT MANAGER: <u>Barry Austin</u>                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                |                      | CITY:                                                                                  |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| ATTENTION: <u>Barry Austin</u>                                                                                                                                                                |                                  |                                                        | LOCATION: <u>Hicksville NY</u>                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                |                      | STATE:                                                                                 |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| PHONE: <u>631-422-5665</u> FAX:                                                                                                                                                               |                                  |                                                        | PHONE: <u>631-422-5665</u> FAX:                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                |                      | ZIP:                                                                                   |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| DATA TURNAROUND INFORMATION                                                                                                                                                                   |                                  |                                                        | DATA DELIVERABLE INFORMATION                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                |                      | ANALYSIS                                                                               |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| FAX: _____ DAYS: _____<br>HARD COPY: _____ DAYS: _____<br>EDD: _____ DAYS: _____<br>TO BE APPROVED BY CHEMTECH<br>*NORMAL TURNAROUND TIME - 14 DAYS                                           |                                  |                                                        | <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> NY STATE CATEGORY A<br><input type="checkbox"/> RESULTS PLUS QC <input type="checkbox"/> NY STATE CATEGORY B<br><input type="checkbox"/> REGULATORY FORMAT, STATE: _____<br><input type="checkbox"/> NEW JERSEY REDUCED DELIVERABLES<br><input type="checkbox"/> CLP<br><input type="checkbox"/> EDD FORMAT: _____ |                                                                                                                                                                                                                                                |                      | <div style="text-align: center;"> <u>8260</u><br/> <u>8270</u><br/> <u>6010</u> </div> |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| CHEMTECH<br>SAMPLE<br>ID                                                                                                                                                                      | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX                                       | SAMPLE<br>TYPE                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                | SAMPLE<br>COLLECTION |                                                                                        | # OF BOTTLES | PRESERVATIVES                                                               |   |   |   |   |   |   |   |   | COMMENTS |                                                                                                               |
|                                                                                                                                                                                               |                                  |                                                        | COMP                                                                                                                                                                                                                                                                                                                                                                              | GRAB                                                                                                                                                                                                                                           | DATE                 | TIME                                                                                   |              | 1                                                                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |                                                                                                               |
| 0809                                                                                                                                                                                          | 01075 New Land Rd                | H2O                                                    |                                                                                                                                                                                                                                                                                                                                                                                   | ✓                                                                                                                                                                                                                                              |                      |                                                                                        | 8            | ✓                                                                           | ✓ | ✓ |   |   |   |   |   |   |          | Specify Preservatives<br>A-HCl B-HNO <sub>3</sub><br>C-H <sub>2</sub> SO <sub>4</sub> D-NaOH<br>E-ICE F-Other |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY                                                                                        |                                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                |                      |                                                                                        |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| REQUESTED BY: <u>E.C.</u><br>DATE/TIME: <u>7/16/02 11:00</u>                                                                                                                                  |                                  | RECEIVED BY: <u>1.</u><br>DATE/TIME: _____             |                                                                                                                                                                                                                                                                                                                                                                                   | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Temp of Cooler <u>11°C</u><br>Comments: <u>Had metals SA-GAS. under for approval. 1/2 Pmt.</u> |                      |                                                                                        |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| REQUESTED BY: <u>VPS</u><br>DATE/TIME: <u>7/29/02 10:00</u>                                                                                                                                   |                                  | RECEIVED BY: <u>2.</u><br>DATE/TIME: _____             |                                                                                                                                                                                                                                                                                                                                                                                   | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Temp of Cooler _____<br>Comments: _____                                                        |                      |                                                                                        |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| REQUESTED BY: <u>VPS</u><br>DATE/TIME: <u>7/29/02 10:00</u>                                                                                                                                   |                                  | RECEIVED BY: <u>3. Sunny Pady.</u><br>DATE/TIME: _____ |                                                                                                                                                                                                                                                                                                                                                                                   | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Temp of Cooler _____<br>Comments: _____                                                        |                      |                                                                                        |              |                                                                             |   |   |   |   |   |   |   |   |          |                                                                                                               |
| SHIPPED VIA: CLIENT <input type="checkbox"/> HAND DELIVERED <input type="checkbox"/> OVERNIGHT <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT <input type="checkbox"/> |                                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                |                      |                                                                                        |              | Shipment Complete: <input type="checkbox"/> YES <input type="checkbox"/> NO |   |   |   |   |   |   |   |   |          |                                                                                                               |



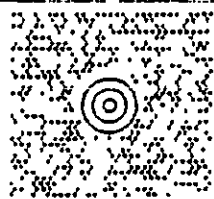
ERIC ARNESEN  
1-800-427-5665  
NELSON, POPE & VOORHIS, INC  
873 WALT WHITMAN ROAD  
MELVILLE NY 11747-2109

37 LBS 1 OF 2

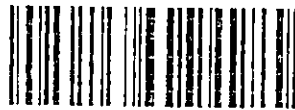
RS

SHIP TO:

SHIPPING DEPARTMENT  
(908) 789-8900  
CHEMTECH CONSULTING  
284 SHEFFIELD STREET  
MOUNTAINSIDE NJ 07092-2319

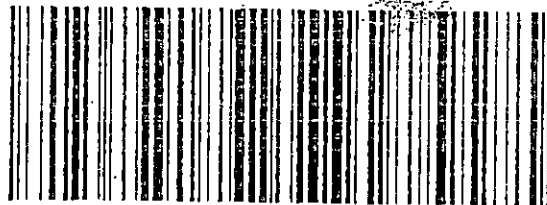


NJ 078 9-61



UPS GROUND

TRACKING #: 1Z A17 04V 90 4704 8220



BILLING: P/P  
DESC: GLASSWARE  
RETURN SERVICE

*Shatt*  
*7/29/02*  
*10:00*

UOW 12 16 UPS Ther 16 04/2002

# Premier Environmental Services

## APPENDIX C