N62269.AR.000397
NAWC WARMINSTER
5090.3a

**Brown & Root Environmental**

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C-49-10-6-186

October 24, 1996

Project Number 1412

Mr. Lonnie Monaco, Code 1823
U.S. Department of the Navy
Naval Facilities Engineering Command
Northern Division, Mail Stop 82
10 Industrial Highway
Lester, Pennsylvania 19113-2090

SUBJECT: Technical Memorandum
Site 4 Removal Action
Trench 6 Verification Sampling Results

Dear Mr. Monaco:

The following summarizes the results of the verification sampling performed for Trench 6 during the Site 4 Removal Action. A total of 15 samples (including 1 duplicate) were taken from the trench, as shown in the attached sketch map. No potential hot spot areas were identified, however three of the samples taken were analyzed for the full suite of analytical parameters (TCL volatiles and semivolatiles, TAL metals, and pesticides/PCB's) as part of the overall sampling strategy of analyzing 20% of the samples for full TCL/TAL parameters. The remaining samples were analyzed for the indicator parameters, including purgeable halocarbons, PAH's, PCB's, and thallium. Raw analytical data from the lab is attached to this memo.

For the volatile organics analyses (purgeable halocarbons and TCL volatiles), there were no positive detections of any VOC's, thus no actions are required based on the VOC results..

No PAH's were detected in any of the samples, including both target PAH's and PAH's not originally included as target compounds, thus no actions are required due to PAH's.

No PCB's or pesticides were detected in any of the samples, thus no actions are needed due to PCB or pesticide levels.

Thallium detections ranged from nondetect to 2.6 mg/kg. The target concentration for thallium is 2.9 mg/kg, thus no actions are required due to thallium levels.

For the remaining metals results, the positive detections were screened against NAWC background concentrations, given in Table 2. The metals concentrations that exceeded background (calcium, manganese, nickel, selenium, silver, and sodium) were compared against the calculated target concentrations (Table 1). Manganese in sample TR06-06 (3110

C-49-10-6-186



mg/kg) exceeded the background level of 2010 mg/kg, the PADEP screening level 0f 400 mg/kg, and the groundwater protection level of 77 mg/kg. There were no other exceedances of target concentrations for metals.

Based on the analytical results, exceedances of target concentrations were limited manganese at sample location TR06-06. Based on the absence of any other indicators of contamination in this sample (which was analyzed for the full TCL/TAL parameters), this minor exceedance is likely to be a background variation that falls outside of the previous background data set rather than an indicator of residual contamination. Should the Navy decide to excavate additional soil at this location, the location should be either resampled for manganese after removal of the additional soil, or the excavation extended to bedrock (sample TR06-06 is a trench bottom sample) to remove all soils at that location.

If you have any questions regarding the above information or would like to discuss it further, please call me at (412) 921-8778.

Sincerely yours,

Jeffrey P. Orient, P.G.
Project Manager

JPO/sic

Attachments

c: T. Ames
J. Dale
S. Lehman
D. Kennedy
D. Ostrauskas
G. Glenn
N. Teamerson
E. Leonard
File 1412

# TABLES

TABLE 1

TARGET CLEAN-UP CONCENTRATIONS

| | | PADEP (1) | RISK-BASED (2)(4) | GROUNDWATER PROTECTION (3)(4) | MINIMUM (4) |
|---|---|---|---|---|---|
| | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Benzo(a)anthracene | | 6 | 17 | 1.5 | 1.5 |
| Benzo(b)fluoranthene | | 6 | 17 | 4.5 | 4.5 |
| Benzo(k)fluoranthene | | NA | 170 | 45 | 45 |
| Benzo(ghi)perylene | | 500 | NA | 96000 | 500 |
| Benzo(a)pyrene | | 0.6 | 1.7 | 82 | 0.6 |
| Acenaphthene | | 30 | 76000 | 630 | 30 |
| Acenaphthylene | | NA | NA | 160 | 160 |
| Anthracene | | 70 | 380000 | 13000 | 70 |
| Chrysene | | 500 | 1700 | 150 | 150 |
| Dibenzo(a,h)anthracene | | 0.6 | 1.7 | 1.4 | 0.6 |
| Fluoranthene | | 400 | 50400 | 6400 | 400 |
| Fluorene | | 40 | 50400 | 830 | 40 |
| Indeno(1,2,3,-cd)pyrene | | 6 | 17 | 13 | 6 |
| 2-Methylnaphthalene | | NA | NA | 140 | 140 |
| Naphthalene | | 8 | 50400 | 140 | 8 |
| Phenanthrene | | 80 | NA | 850 | 80 |
| Pyrene | | 300 | 38000 | 4600 | 300 |
| Acetone | | 0.03 | 130000 | 340 | 0.03 |
| Chlorobenzene | | 10 | 25000 | 3.6 | 3.6 |
| Methylene chloride | | 0.3 | 1700 | 0.46 | 0.3 |
| Aluminum | | NA | 1300000 | 3400 | 3400 |
| Antimony | | 30 | 504 | 5.4 | 5.4 |
| Arsenic | | 3 | 8.4 | 29 | 3 |
| Barium | | 5000 | 88000 | 1700 | 1700 |
| Beryllium | | 1 | 2.9 | 63 | 1 |
| Cadmium | | 20 | 630 | 7.5 | 7.5 |
| Calcium | | NA | NA | NA | NA |
| Chromium | | 10 | 6300 | 38 | 10 |
| Cobalt | | NA | 76000 | 202 | 202 |
| Copper | | 100 | 50400 | 120 | 100 |
| Iron | | NA | 380000 | 1010 | 1010 |
| Lead | | 200 | NA | 1.4 | 1.4 |
| Magnesium | | NA | NA | NA | NA |
| Manganese | | 400 | 29000 | 77 | 77 |
| Mercury | | 20 | 380 | 2.1 | 2.1 |
| Nickel | | 200 | 25000 | 130 | 130 |
| Potassium | | NA | NA | NA | NA |
| Selenium | | 50 | 6300 | 5.2 | 5.2 |
| Silver | | 400 | 6300 | 31 | 31 |
| Sodium | | NA | NA | NA | NA |
| Thallium | | 6 | 101 | 2.9 | 2.9 |
| Vanadium | | NA | 8800 | 5200 | 5200 |
| Zinc | | 1000 | 380000 | 14000 | 1000 |

FOOTNOTES:

(1) Values presented are from the "Technical Manual , Pennsylvania's Land Recycling, Revison 1 to Appendix B2 (Statewide Human Health Standards for Soils)," 4/26/96.

(2) USEPA Region III Risk-Based Concentration Table, January-June 1996.

(3) Three references: "Soil Screening Guidance: User's Guide", April 1996, "Aquatic Fate Process Data for Organic Priority Pollutants" , USEPA, 1982 and the " Drinking Water Regulations and Health Advisories", February 1996 were used to obtain groundwater protection values.

(4) Values were presented with two significant figures.

TABLE 2
BACKGROUND SOIL SAMPLING RESULTS

| ANALYTE | AREA B/SITE 4 RANGE | ENERAL BACKGROUN RANGE | COMBINED RANGES |
|---|---|---|---|
| ALUMINUM | 4780 - 17500 | 11200 - 18100 | 4780 - 18100 |
| ANTIMONY | 13.6 - 13.6 | NA | 13.6 |
| ARSENIC | 0.28 - 6.1 | 3.7 - 12.1 | 0.28 - 12.1 |
| BARIUM | 34.6 - 225 | 34.1 - 115 | 34.1 - 225 |
| BERYLLIUM | 0.31 - 1.7 | 0.64 - 1.1 | 0.31 - 1.7 |
| CADMIUM | NOT DETECTED | NOT DETECTED | NA |
| CALCIUM | 240 - 1910 | 520 - 1100 | 240 - 1910 |
| CHROMIUM | 7.9 - 25 | 12 - 35.3 | 7.9 - 35.3 |
| COBALT | 1.6 - 21.1 | 6.2 - 14.4 | 1.6 - 21.1 |
| COPPER | 3.6 - 30.6 | 6.5 - 22.7 | 3.6 - 30.6 |
| IRON | 6980 - 28900 | 14400 - 39900 | 6980 - 39900 |
| LEAD | 1.6 - 23.5 | 6.7 - 96.5 | 1.6 - 96.5 |
| MAGNESIUM | 518 - 4960 | 1810 - 3080 | 518 - 4960 |
| MANGANESE | 30.9 - 2010 | 124 - 718 | 30.9 - 2010 |
| MERCURY | 0.25 - 0.25 | NOT DETECTED | 0.25 - 0.25 |
| NICKEL | 4.1 - 19.1 | 8.1 - 17.5 | 4.1 - 19.1 |
| POTASSIUM | 89.1 - 3050 | 465 - 1240 | 89.1 - 3050 |
| SELENIUM | NOT DETECTED | NOT DETECTED | NA |
| SILVER | NOT DETECTED | NA | NA |
| SODIUM | 55.2 - 86.7 | NOT DETECTED | 55.2 - 86.7 |
| THALLIUM | 0.42 - 0.42 | NA | 0.42 - 0.42 |
| VANADIUM | 15.7 - 37.9 | 18.1 - 45 | 15.7 - 45 |
| ZINC | 9.0 - 48.6 | 19.6 - 60 | 9.0 - 60 |
| CYANIDE | NOT DETECTED | NA | NA |

# SAMPLE LOCATION MAP

**CALCULATION V**

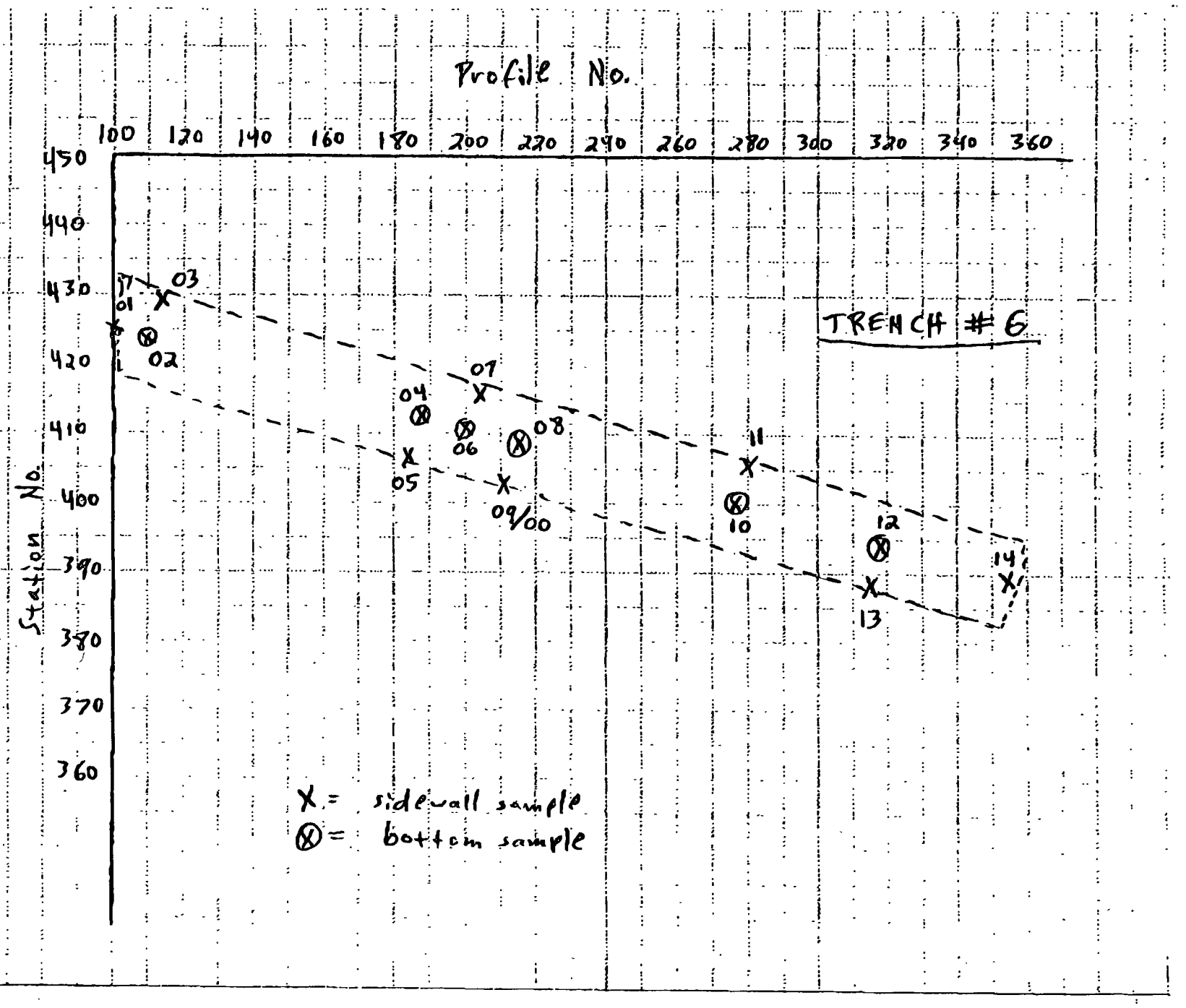
CLIENT
SUBJECT
BASED ON
BY

PAGE OF

DATE

Post-it™ Fax Note 7671

Date 10/24 | # of pages ▶ 1
To Ernest Lea
From
Co./Dept.
Co.
Phone #
Phone #
Fax #
Fax #



# ANALYTICAL RESULTS

ANALYTICAL RESULTS



| Client Sample ID: | | W-TR06-00 | | W-TR06-01 | | W-TR06-02 | | W-TR06-03 | | W-TR06-04 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510215 | | A96-5102 A6510201 | | A96-5102 A6510202 | | A96-5102 A6510203 | | A96-5102 A6510204 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8260 - PURGEABLE HALOCARBONS | | | | | | | | | | | |
| Bromodichloromethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Bromoform | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Bromomethane | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Carbon Tetrachloride | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Chlorobenzene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Chloroethane | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 2-Chloroethylvinyl ether | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Chloroform | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Chloromethane | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Dibromochloromethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,2-Dichlorobenzene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,3-Dichlorobenzene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,4-Dichlorobenzene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,1-Dichloroethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,2-Dichloroethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,1-Dichloroethene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| cis-1,2-Dichloroethene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| trans-1,2-Dichloroethene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,2-Dichloropropane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| cis-1,3-Dichloropropene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| trans-1,3-Dichloropropene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Methylene chloride | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Tetrachloroethene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,1,1-Trichloroethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| 1,1,2-Trichloroethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Trichloroethene | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Trichlorofluoromethane | 5 | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Vinyl chloride | 10 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| INTERNAL STANDARDS | | | | | | | | | | | |
| Bromochloromethane | 50-200 | 123 | | 113 | | 89 | | 112 | | 117 | |
| 1,4-Difluorobenzene | 50-200 | 139 | | 125 | | 105 | | 126 | | 131 | |
| Chlorobenzene-D5 | 50-200 | 128 | | 111 | | 95 | | 120 | | 118 | |
| SURROGATES | | | | | | | | | | | |
| Toluene-D8 | 81-117 | 95 | | 96 | | 94 | | 93 | | 95 | |
| p-Bromofluorobenzene | 74-121 | 94 | | 90 | | 91 | | 92 | | 93 | |
| 1,2-Dichloroethane-D4 | 80-120 | 95 | | 92 | | 92 | | 91 | | 91 | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:45 ☎ 002/018

| Client Sample ID: | | W-TR06-05 | W-TR06-06 | W-TR06-07 | W-TR06-08 | W-TR06-09 |
|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510205 | A96-5102 A6510206 | A96-5102 A6510207 | A96-5102 A6510208 | A96-5102 A6510209 |
| Sample Date: | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
| METHOD 8260 - TCL VOLATILE ORGANICS | | | | | | |
| Acetone | 10 | NA | 10 U | 10 U | NA | NA |
| Benzene | 5 | NA | 5 U | 5 U | NA | NA |
| Bromodichloromethane | 5 | NA | 5 U | 5 U | NA | NA |
| Bromoform | 5 | NA | 5 U | 5 U | NA | NA |
| Bromomethane | 10 | NA | 10 U | 10 U | NA | NA |
| 2-Butanone | 10 | NA | 10 U | 10 U | NA | NA |
| Carbon Disulfide | 5 | NA | 5 U | 5 U | NA | NA |
| Carbon Tetrachloride | 5 | NA | 5 U | 5 U | NA | NA |
| Chlorobenzene | 5 | NA | 5 U | 5 U | NA | NA |
| Chloroethane | 10 | NA | 10 U | 10 U | NA | NA |
| Chloroform | 5 | NA | 5 U | 5 U | NA | NA |
| Chloromethane | 10 | NA | 10 U | 10 U | NA | NA |
| Dibromochloromethane | 5 | NA | 5 U | 5 U | NA | NA |
| 1,1-Dichloroethane | 5 | NA | 5 U | 5 U | NA | NA |
| 1,2-Dichloroethane | 5 | NA | 5 U | 5 U | NA | NA |
| 1,1-Dichloroethene | 5 | NA | 5 U | 5 U | NA | NA |
| cis-1,2-Dichloroethene | 5 | NA | 5 U | 5 U | NA | NA |
| trans-1,2-Dichloroethene | 5 | NA | 5 U | 5 U | NA | NA |
| 1,2-Dichloropropane | 5 | NA | 5 U | 5 U | NA | NA |
| cis-1,3-Dichloropropene | 5 | NA | 5 U | 5 U | NA | NA |
| trans-1,3-Dichloropropene | 5 | NA | 5 U | 5 U | NA | NA |
| Ethylbenzene | 5 | NA | 5 U | 5 U | NA | NA |
| 2-Hexanone | 10 | NA | 10 U | 10 U | NA | NA |
| Methylene chloride | 5 | NA | 5 U | 5 U | NA | NA |
| 4-Methyl-2-pentanone | 10 | NA | 10 U | 10 U | NA | NA |
| Styrene | 5 | NA | 5 U | 5 U | NA | NA |
| 1,1,2,2-Tetrachloroethane | 5 | NA | 5 U | 5 U | NA | NA |
| Tetrachloroethene | 5 | NA | 5 U | 5 U | NA | NA |
| Toluene | 5 | NA | 5 U | 5 U | NA | NA |
| 1,1,1-Trichloroethane | 5 | NA | 5 U | 5 U | NA | NA |
| 1,1,2-Trichloroethane | 5 | NA | 5 U | 5 U | NA | NA |
| Trichloroethene | 5 | NA | 5 U | 5 U | NA | NA |
| Vinyl acetate | 10 | NA | 10 U | 10 U | NA | NA |
| Vinyl chloride | 10 | NA | 10 U | 10 U | NA | NA |
| Total Xylenes | 15 | NA | 15 U | 15 U | NA | NA |
| INTERNAL STANDARDS | | | | | | |
| Bromochloromethane | 50-200 | NA | 116 | 116 | NA | NA |
| 1,4-Difluorobenzene | 50-200 | NA | 130 | 132 | NA | NA |
| Chlorobenzene-D5 | 50-200 | NA | 118 | 120 | NA | NA |
| SURROGATES | | | | | | |
| Toluene-D8 | 81-117 | NA | 94 | 95 | NA | NA |
| p-Bromofluorobenzene | 74-121 | NA | 93 | 93 | NA | NA |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:46 ☎ 003/018

| Client Sample ID: | | W-TR06-05 | W-TR06-06 | W-TR06-07 | W-TR06-08 | W-TR06-09 |
|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510205 | A96-5102 A6510206 | A96-5102 A6510207 | A96-5102 A6510208 | A96-5102 A6510209 |
| Sample Date: | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
| METHOD 8260 - TCL VOLATILE ORGANICS | | | | | | |
| 1,2-Dichloroethane-D4 | 80-120 | NA | 92 | 94 | NA | NA |

| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
|---|---|---|---|---|---|---|
| METHOD 8260 - PURGEABLE HALOCARBONS | | | | | | |
| Bromodichloromethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| Bromoform | 5 | 5 U | NA | NA | 5 U | 5 U |
| Bromomethane | 10 | 10 U | NA | NA | 10 U | 10 U |
| Carbon Tetrachloride | 5 | 5 U | NA | NA | 5 U | 5 U |
| Chlorobenzene | 5 | 5 U | NA | NA | 5 U | 5 U |
| Chloroethane | 10 | 10 U | NA | NA | 10 U | 10 U |
| 2-Chloroethylvinyl ether | 10 | 10 U | NA | NA | 10 U | 10 U |
| Chloroform | 5 | 5 U | NA | NA | 5 U | 5 U |
| Chloromethane | 10 | 10 U | NA | NA | 10 U | 10 U |
| Dibromochloromethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,2-Dichlorobenzene | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,3-Dichlorobenzene | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,4-Dichlorobenzene | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | NA | NA | 5 U | 5 U |
| cis-1,2-Dichloroethene | 5 | 5 U | NA | NA | 5 U | 5 U |
| trans-1,2-Dichloroethene | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | NA | NA | 5 U | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | NA | NA | 5 U | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | NA | NA | 5 U | 5 U |
| Methylene chloride | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| Tetrachloroethene | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,1,1-Trichloroethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| Trichloroethene | 5 | 5 U | NA | NA | 5 U | 5 U |
| Trichlorofluoromethane | 5 | 5 U | NA | NA | 5 U | 5 U |
| Vinyl chloride | 10 | 10 U | NA | NA | 10 U | 10 U |
| INTERNAL STANDARDS | | | | | | |
| Bromochloromethane | 50-200 | 123 | NA | NA | 111 | 118 |
| 1,4-Difluorobenzene | 50-200 | 132 | NA | NA | 142 | 132 |
| Chlorobenzene-D5 | 50-200 | 124 | NA | NA | 122 | 124 |
| SURROGATES | | | | | | |
| Toluene-D8 | 81-117 | 94 | NA | NA | 96 | 94 |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:47 004/018

| Client Sample ID: | | W-TR06-10 | W-TR06-11 | W-TR06-12 | W-TR06-13 | W-TR06-14 |
|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510210 | A96-5102 A6510211 | A96-5102 A6510212 | A96-5102 A6510213 | A96-5102 A6510214 |
| Sample Date: | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
| METHOD 8260 - TCL VOLATILE ORGANICS | | | | | | |
| Acetone | 10 | NA | NA | NA | 10 U | NA |
| Benzene | 5 | NA | NA | NA | 5 U | NA |
| Bromodichloromethane | 5 | NA | NA | NA | 5 U | NA |
| Bromoform | 5 | NA | NA | NA | 5 U | NA |
| Bromomethane | 10 | NA | NA | NA | 10 U | NA |
| 2-Butanone | 10 | NA | NA | NA | 10 U | NA |
| Carbon Disulfide | 5 | NA | NA | NA | 5 U | NA |
| Carbon Tetrachloride | 5 | NA | NA | NA | 5 U | NA |
| Chlorobenzene | 5 | NA | NA | NA | 5 U | NA |
| Chloroethane | 10 | NA | NA | NA | 10 U | NA |
| Chloroform | 5 | NA | NA | NA | 5 U | NA |
| Chloromethane | 10 | NA | NA | NA | 10 U | NA |
| Dibromochloromethane | 5 | NA | NA | NA | 5 U | NA |
| 1,1-Dichloroethane | 5 | NA | NA | NA | 5 U | NA |
| 1,2-Dichloroethane | 5 | NA | NA | NA | 5 U | NA |
| 1,1-Dichloroethene | 5 | NA | NA | NA | 5 U | NA |
| cis-1,2-Dichloroethene | 5 | NA | NA | NA | 5 U | NA |
| trans-1,2-Dichloroethene | 5 | NA | NA | NA | 5 U | NA |
| 1,2-Dichloropropane | 5 | NA | NA | NA | 5 U | NA |
| cis-1,3-Dichloropropene | 5 | NA | NA | NA | 5 U | NA |
| trans-1,3-Dichloropropene | 5 | NA | NA | NA | 5 U | NA |
| Ethylbenzene | 5 | NA | NA | NA | 5 U | NA |
| 2-Hexanone | 10 | NA | NA | NA | 10 U | NA |
| Methylene chloride | 5 | NA | NA | NA | 5 U | NA |
| 4-Methyl-2-pentanone | 10 | NA | NA | NA | 10 U | NA |
| Styrene | 5 | NA | NA | NA | 5 U | NA |
| 1,1,2,2-Tetrachloroethane | 5 | NA | NA | NA | 5 U | NA |
| Tetrachloroethene | 5 | NA | NA | NA | 5 U | NA |
| Toluene | 5 | NA | NA | NA | 5 U | NA |
| 1,1,1-Trichloroethane | 5 | NA | NA | NA | 5 U | NA |
| 1,1,2-Trichloroethane | 5 | NA | NA | NA | 5 U | NA |
| Trichloroethene | 5 | NA | NA | NA | 5 U | NA |
| Vinyl acetate | 10 | NA | NA | NA | 10 U | NA |
| Vinyl chloride | 10 | NA | NA | NA | 10 U | NA |
| Total Xylenes | 15 | NA | NA | NA | 15 U | NA |
| INTERNAL STANDARDS | | | | | | |
| Bromochloromethane | 50-200 | NA | NA | NA | 121 | NA |
| 1,4-Difluorobenzene | 50-200 | NA | NA | NA | 140 | NA |
| Chlorobenzene-D5 | 50-200 | NA | NA | NA | 132 | NA |
| SURROGATES | | | | | | |
| Toluene-D8 | 81-117 | NA | NA | NA | 94 | NA |
| p-Bromofluorobenzene | 74-121 | NA | NA | NA | 96 | NA |

* Indicates Result Is Outside QC Limits
NA = Not Applicable



10/21/96 12:48 008/018

| Client Sample ID: | | W-TR06-10 | W-TR06-11 | W-TR06-12 | W-TR06-13 | W-TR06-14 |
|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510210 | A96-5102 A6510211 | A96-5102 A6510212 | A96-5102 A6510213 | A96-5102 A6510214 |
| Sample Date: | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
| METHOD 8260 - TCL VOLATILE ORGANICS | | | | | | |
| 1,2-Dichloroethane-D4 | 80-120 | NA | NA | NA | 94 | NA |

| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
|---|---|---|---|---|---|---|
| METHOD 8260 - PURGEABLE HALOCARBONS | | | | | | |
| Bromodichloromethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Bromoform | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Bromomethane | 10 | 10 U | 10 U | 10 U | NA | 10 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Chloroethane | 10 | 10 U | 10 U | 10 U | NA | 10 U |
| 2-Chloroethylvinyl ether | 10 | 10 U | 10 U | 10 U | NA | 10 U |
| Chloroform | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Chloromethane | 10 | 10 U | 10 U | 10 U | NA | 10 U |
| Dibromochloromethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,2-Dichlorobenzene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,3-Dichlorobenzene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,4-Dichlorobenzene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,1-Dichloroethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,2-Dichloroethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,1-Dichloroethene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| cis-1,2-Dichloroethene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| trans-1,2-Dichloroethene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,2-Dichloropropane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| cis-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| trans-1,3-Dichloropropene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,1,1-Trichloroethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| 1,1,2-Trichloroethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Trichloroethene | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Trichlorofluoromethane | 5 | 5 U | 5 U | 5 U | NA | 5 U |
| Vinyl chloride | 10 | 10 U | 10 U | 10 U | NA | 10 U |
| INTERNAL STANDARDS | | | | | | |
| Bromochloromethane | 50-200 | 115 | 102 | 115 | NA | 118 |
| 1,4-Difluorobenzene | 50-200 | 128 | 117 | 132 | NA | 138 |
| Chlorobenzene-D5 | 50-200 | 120 | 106 | 124 | NA | 126 |
| SURROGATES | | | | | | |
| Toluene-D8 | 81-117 | 94 | 96 | 92 | NA | 95 |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:49 007/018

ANALYTICAL RESULTS



| Client Sample ID: | | W-TR06-00 | | W-TR06-01 | | W-TR06-02 | | W-TR06-03 | | W-TR06-04 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510215 | | A96-5102 A6510201 | | A96-5102 A6510202 | | A96-5102 A6510203 | | A96-5102 A6510204 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS | | | | | | | | | | | |
| Acenaphthene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Acenaphthylene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Anthracene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Benzo(a)anthracene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Benzo(b)fluoranthene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Benzo(k)fluoranthene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Benzo(ghi)perylene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Benzo(a)pyrene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Chrysene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Fluoranthene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Fluorene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| 2-Methylnaphthalene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Naphthalene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Phenanthrene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| Pyrene | 330 | 330 | U | 330 | U | 330 | U | 330 | U | 330 | U |
| INTERNAL STANDARDS | | | | | | | | | | | |
| 1,4-Dichlorobenzene-D4 | 50-200 | 73 | | 75 | | 74 | | 93 | | 77 | |
| Naphthalene-D8 | 50-200 | 115 | | 106 | | 102 | | 122 | | 100 | |
| Acenaphthene-D10 | 50-200 | 93 | | 96 | | 99 | | 140 | | 103 | |
| Phenanthrene-D10 | 50-200 | 92 | | 98 | | 94 | | 129 | | 98 | |
| Chrysene-D12 | 50-200 | 75 | | 69 | | 71 | | 90 | | 67 | |
| Perylene-D12 | 50-200 | 69 | | 72 | | 77 | | 88 | | 69 | |
| SURROGATES | | | | | | | | | | | |
| Nitrobenzene-D5 | 23-120 | 44 | | 43 | | 47 | | 38 | | 42 | |
| 2-Fluorobiphenyl | 30-115 | 63 | | 86 | | 72 | | 58 | | 67 | |
| Terphenyl-D14 | 18-137 | 118 | | 136 | | 135 | | 107 | | 138 | * |
| Phenol-D5 | 24-113 | 70 | | 65 | | 68 | | 54 | | 63 | |
| 2-Fluorophenol | 25-121 | 73 | | 81 | | 81 | | 65 | | 69 | |
| 2,4,6-Tribromophenol | 19-122 | 79 | | 115 | | 97 | | 76 | | 98 | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:50 008/018

| Client Sample ID: | | W-TR06-05 | | W-TR06-06 | | W-TR06-07 | | W-TR06-08 | | W-TR06-09 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510205 | | A96-5102 A6510206 | | A96-5102 A6510207 | | A96-5102 A6510208 | | A96-5102 A6510209 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | | | | | | | | | | | |
| Acenaphthene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Acenaphthylene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Anthracene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Benzo(a)anthracene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Benzo(b)fluoranthene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Benzo(k)fluoranthene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Benzo(ghi)perylene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Benzo(a)pyrene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Benzoic acid | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| Benzyl alcohol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Bis(2-chloroethoxy) methane | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Bis(2-chloroethyl) ether | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Bis(2-chloroisopropyl) ether | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Bis(2-ethylhexyl) phthalate | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4-Bromophenyl phenyl ether | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Butyl benzyl phthalate | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4-Chloroaniline | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4-Chloro-3-methylphenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2-Chloronaphthalene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2-Chlorophenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4-Chlorodiphenylether | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Chrysene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Dibenzo(a,h)anthracene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Dibenzofuran | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Di-n-butyl phthalate | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 1,2-Dichlorobenzene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 1,3-Dichlorobenzene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 1,4-Dichlorobenzene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 3,3'-Dichlorobenzidine | 660 | NA | | 660 | U | 660 | U | NA | | NA | |
| 2,4-Dichlorophenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Diethyl phthalate | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2,4-Dimethylphenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Dimethyl phthalate | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4,6-Dinitro-2-methylphenol | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| 2,4-Dinitrophenol | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| 2,4-Dinitrotoluene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2,6-Dinitrotoluene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Di-n-octyl phthalate | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Fluoranthene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Fluorene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Hexachlorobenzene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Hexachlorobutadiene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:51 010/018

| Client Sample ID: | | W-TR06-05 | | W-TR06-06 | | W-TR06-07 | | W-TR06-08 | | W-TR06-09 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510205 | | A96-5102 A6510206 | | A96-5102 A6510207 | | A96-5102 A6510208 | | A96-5102 A6510209 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | | | | | | | | | | | |
| Hexachlorocyclopentadiene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Hexachloroethane | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Indeno(1,2,3-cd)pyrene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Isophorone | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2-Methylnaphthalene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2-Methylphenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4-Methylphenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Naphthalene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2-Nitroaniline | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| 3-Nitroaniline | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| 4-Nitroaniline | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| Nitrobenzene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2-Nitrophenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 4-Nitrophenol | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| N-nitrosodiphenylamine | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| N-Nitroso-Di-n-propylamine | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Pentachlorophenol | 1600 | NA | | 1600 | U | 1600 | U | NA | | NA | |
| Phenanthrene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Phenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| Pyrene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 1,2,4-Trichlorobenzene | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| 2,4,5-Trichlorophenol | 800 | NA | | 800 | U | 800 | U | NA | | NA | |
| 2,4,6-Trichlorophenol | 330 | NA | | 330 | U | 330 | U | NA | | NA | |
| INTERNAL STANDARDS | | | | | | | | | | | |
| 1,4-Dichlorobenzene-D4 | 50-200 | NA | | 66 | | 64 | | NA | | NA | |
| Naphthalene-D8 | 50-200 | NA | | 103 | | 99 | | NA | | NA | |
| Acenaphthene-D10 | 50-200 | NA | | 95 | | 90 | | NA | | NA | |
| Phenanthrene-D10 | 50-200 | NA | | 94 | | 86 | | NA | | NA | |
| Chrysene-D12 | 50-200 | NA | | 69 | | 62 | | NA | | NA | |
| Perylene-D12 | 50-200 | NA | | 68 | | 64 | | NA | | NA | |
| SURROGATES | | | | | | | | | | | |
| Nitrobenzene-D5 | 23-120 | NA | | 45 | | 43 | | NA | | NA | |
| 2-Fluorobiphenyl | 30-115 | NA | | 52 | | 52 | | NA | | NA | |
| Terphenyl-D14 | 18-137 | NA | | 136 | | 139 | * | NA | | NA | |
| Phenol-D5 | 24-113 | NA | | 70 | | 69 | | NA | | NA | |
| 2-Fluorophenol | 25-121 | NA | | 71 | | 78 | | NA | | NA | |
| 2,4,6-Tribromophenol | 19-122 | NA | | 81 | | 59 | | NA | | NA | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:51 ☎ 011/018

| Client Sample ID: | | W-TR06-05 | | W-TR06-06 | | W-TR06-07 | | W-TR06-08 | | W-TR06-09 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510205 | | A96-5102 A6510206 | | A96-5102 A6510207 | | A96-5102 A6510208 | | A96-5102 A6510209 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS | | | | | | | | | | | |
| Acenaphthene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Acenaphthylene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Anthracene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Benzo(a)anthracene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Benzo(b)fluoranthene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Benzo(k)fluoranthene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Benzo(ghi)perylene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Benzo(a)pyrene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Chrysene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Dibenzo(a,h)anthracene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Fluoranthene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Fluorene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| 2-Methylnaphthalene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Naphthalene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Phenanthrene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| Pyrene | 330 | 330 | U | NA | | NA | | 330 | U | 330 | U |
| INTERNAL STANDARDS | | | | | | | | | | | |
| 1,4-Dichlorobenzene-D4 | 50-200 | 76 | | NA | | NA | | 74 | | 70 | |
| Naphthalene-D8 | 50-200 | 115 | | NA | | NA | | 112 | | 108 | |
| Acenaphthene-D10 | 50-200 | 106 | | NA | | NA | | 97 | | 94 | |
| Phenanthrene-D10 | 50-200 | 99 | | NA | | NA | | 94 | | 90 | |
| Chrysene-D12 | 50-200 | 76 | | NA | | NA | | 72 | | 71 | |
| Perylene-D12 | 50-200 | 80 | | NA | | NA | | 69 | | 68 | |
| SURROGATES | | | | | | | | | | | |
| Nitrobenzene-D5 | 23-120 | 42 | | NA | | NA | | 46 | | 45 | |
| 2-Fluorobiphenyl | 30-115 | 56 | | NA | | NA | | 64 | | 55 | |
| Terphenyl-D14 | 18-137 | 125 | | NA | | NA | | 134 | | 134 | |
| Phenol-D5 | 24-113 | 67 | | NA | | NA | | 73 | | 66 | |
| 2-Fluorophenol | 25-121 | 73 | | NA | | NA | | 80 | | 68 | |
| 2,4,6-Tribromophenol | 19-122 | 77 | | NA | | NA | | 96 | | 71 | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:52 012/018

| Client Sample ID: | | W-TR06-10 | W-TR06-11 | W-TR06-12 | W-TR06-13 | W-TR06-14 |
|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510210 | A96-5102 A6510211 | A96-5102 A6510212 | A96-5102 A6510213 | A96-5102 A6510214 |
| Sample Date: | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
| METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | | | | | | |
| Acenaphthene | 330 | NA | NA | NA | 330 U | NA |
| Acenaphthylene | 330 | NA | NA | NA | 330 U | NA |
| Anthracene | 330 | NA | NA | NA | 330 U | NA |
| Benzo(a)anthracene | 330 | NA | NA | NA | 330 U | NA |
| Benzo(b)fluoranthene | 330 | NA | NA | NA | 330 U | NA |
| Benzo(k)fluoranthene | 330 | NA | NA | NA | 330 U | NA |
| Benzo(ghi)perylene | 330 | NA | NA | NA | 330 U | NA |
| Benzo(a)pyrene | 330 | NA | NA | NA | 330 U | NA |
| Benzoic acid | 1600 | NA | NA | NA | 1600 U | NA |
| Benzyl alcohol | 330 | NA | NA | NA | 330 U | NA |
| Bis(2-chloroethoxy) methane | 330 | NA | NA | NA | 330 U | NA |
| Bis(2-chloroethyl) ether | 330 | NA | NA | NA | 330 U | NA |
| Bis(2-chloroisopropyl) ether | 330 | NA | NA | NA | 330 U | NA |
| Bis(2-ethylhexyl) phthalate | 330 | NA | NA | NA | 330 U | NA |
| 4-Bromophenyl phenyl ether | 330 | NA | NA | NA | 330 U | NA |
| Butyl benzyl phthalate | 330 | NA | NA | NA | 330 U | NA |
| 4-Chloroaniline | 330 | NA | NA | NA | 330 U | NA |
| 4-Chloro-3-methylphenol | 330 | NA | NA | NA | 330 U | NA |
| 2-Chloronaphthalene | 330 | NA | NA | NA | 330 U | NA |
| 2-Chlorophenol | 330 | NA | NA | NA | 330 U | NA |
| 4-Chlorodiphenylether | 330 | NA | NA | NA | 330 U | NA |
| Chrysene | 330 | NA | NA | NA | 330 U | NA |
| Dibenzo(a,h)anthracene | 330 | NA | NA | NA | 330 U | NA |
| Dibenzofuran | 330 | NA | NA | NA | 330 U | NA |
| Di-n-butyl phthalate | 330 | NA | NA | NA | 330 U | NA |
| 1,2-Dichlorobenzene | 330 | NA | NA | NA | 330 U | NA |
| 1,3-Dichlorobenzene | 330 | NA | NA | NA | 330 U | NA |
| 1,4-Dichlorobenzene | 330 | NA | NA | NA | 330 U | NA |
| 3,3'-Dichlorobenzidine | 660 | NA | NA | NA | 660 U | NA |
| 2,4-Dichlorophenol | 330 | NA | NA | NA | 330 U | NA |
| Diethyl phthalate | 330 | NA | NA | NA | 330 U | NA |
| 2,4-Dimethylphenol | 330 | NA | NA | NA | 330 U | NA |
| Dimethyl phthalate | 330 | NA | NA | NA | 330 U | NA |
| 4,6-Dinitro-2-methylphenol | 1600 | NA | NA | NA | 1600 U | NA |
| 2,4-Dinitrophenol | 1600 | NA | NA | NA | 1600 U | NA |
| 2,4-Dinitrotoluene | 330 | NA | NA | NA | 330 U | NA |
| 2,6-Dinitrotoluene | 330 | NA | NA | NA | 330 U | NA |
| Di-n-octyl phthalate | 330 | NA | NA | NA | 330 U | NA |
| Fluoranthene | 330 | NA | NA | NA | 330 U | NA |
| Fluorene | 330 | NA | NA | NA | 330 U | NA |
| Hexachlorobenzene | 330 | NA | NA | NA | 330 U | NA |
| Hexachlorobutadiene | 330 | NA | NA | NA | 330 U | NA |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:53 013/018

| Client Sample ID: | | W-TR06-10 | W-TR06-11 | W-TR06-12 | W-TR06-13 | W-TR06-14 |
|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510210 | A96-5102 A6510211 | A96-5102 A6510212 | A96-5102 A6510213 | A96-5102 A6510214 |
| Sample Date: | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte (UG/KG) | RL | Result | Result | Result | Result | Result |
| METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | | | | | | |
| Hexachlorocyclopentadiene | 330 | NA | NA | NA | 330 U | NA |
| Hexachloroethane | 330 | NA | NA | NA | 330 U | NA |
| Indeno(1,2,3-cd)pyrene | 330 | NA | NA | NA | 330 U | NA |
| Isophorone | 330 | NA | NA | NA | 330 U | NA |
| 2-Methylnaphthalene | 330 | NA | NA | NA | 330 U | NA |
| 2-Methylphenol | 330 | NA | NA | NA | 330 U | NA |
| 4-Methylphenol | 330 | NA | NA | NA | 330 U | NA |
| Naphthalene | 330 | NA | NA | NA | 330 U | NA |
| 2-Nitroaniline | 1600 | NA | NA | NA | 1600 U | NA |
| 3-Nitroaniline | 1600 | NA | NA | NA | 1600 U | NA |
| 4-Nitroaniline | 1600 | NA | NA | NA | 1600 U | NA |
| Nitrobenzene | 330 | NA | NA | NA | 330 U | NA |
| 2-Nitrophenol | 330 | NA | NA | NA | 330 U | NA |
| 4-Nitrophenol | 1600 | NA | NA | NA | 1600 U | NA |
| N-nitrosodiphenylamine | 330 | NA | NA | NA | 330 U | NA |
| N-Nitroso-Di-n-propylamine | 330 | NA | NA | NA | 330 U | NA |
| Pentachlorophenol | 1600 | NA | NA | NA | 1600 U | NA |
| Phenanthrene | 330 | NA | NA | NA | 330 U | NA |
| Phenol | 330 | NA | NA | NA | 330 U | NA |
| Pyrene | 330 | NA | NA | NA | 330 U | NA |
| 1,2,4-Trichlorobenzene | 330 | NA | NA | NA | 330 U | NA |
| 2,4,5-Trichlorophenol | 800 | NA | NA | NA | 800 U | NA |
| 2,4,6-Trichlorophenol | 330 | NA | NA | NA | 330 U | NA |
| INTERNAL STANDARDS | | | | | | |
| 1,4-Dichlorobenzene-D4 | 50-200 | NA | NA | NA | 74 | NA |
| Naphthalene-D8 | 50-200 | NA | NA | NA | 112 | NA |
| Acenaphthene-D10 | 50-200 | NA | NA | NA | 104 | NA |
| Phenanthrene-D10 | 50-200 | NA | NA | NA | 101 | NA |
| Chrysene-D12 | 50-200 | NA | NA | NA | 71 | NA |
| Perylene-D12 | 50-200 | NA | NA | NA | 72 | NA |
| SURROGATES | | | | | | |
| Nitrobenzene-D5 | 23-120 | NA | NA | NA | 42 | NA |
| 2-Fluorobiphenyl | 30-115 | NA | NA | NA | 50 | NA |
| Terphenyl-D14 | 18-137 | NA | NA | NA | 133 | NA |
| Phenol-D5 | 24-113 | NA | NA | NA | 65 | NA |
| 2-Fluorophenol | 25-121 | NA | NA | NA | 69 | NA |
| 2,4,6-Tribromophenol | 19-122 | NA | NA | NA | 83 | NA |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:53 014/018

| Client Sample ID: | | W-TR06-10 | | W-TR06-11 | | W-TR06-12 | | W-TR06-13 | | W-TR06-14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510210 | | A96-5102 A6510211 | | A96-5102 A6510212 | | A96-5102 A6510213 | | A96-5102 A6510214 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8270-NSL POLYNUCLEAR AROMATIC HYDROCARBONS | | | | | | | | | | | |
| Acenaphthene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Acenaphthylene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Anthracene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Benzo(a)anthracene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Benzo(b)fluoranthene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Benzo(k)fluoranthene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Benzo(ghi)perylene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Benzo(a)pyrene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Chrysene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Dibenzo(a,h)anthracene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Fluoranthene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Fluorene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Indeno(1,2,3-cd)pyrene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| 2-Methylnaphthalene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Naphthalene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Phenanthrene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| Pyrene | 330 | 330 | U | 330 | U | 330 | U | NA | | 330 | U |
| INTERNAL STANDARDS | | | | | | | | | | | |
| 1,4-Dichlorobenzene-D4 | 50-200 | 71 | | 77 | | 67 | | NA | | 74 | |
| Naphthalene-D8 | 50-200 | 113 | | 115 | | 109 | | NA | | 117 | |
| Acenaphthene-D10 | 50-200 | 94 | | 101 | | 87 | | NA | | 97 | |
| Phenanthrene-D10 | 50-200 | 94 | | 106 | | 88 | | NA | | 96 | |
| Chrysene-D12 | 50-200 | 72 | | 78 | | 70 | | NA | | 74 | |
| Perylene-D12 | 50-200 | 72 | | 76 | | 66 | | NA | | 69 | |
| SURROGATES | | | | | | | | | | | |
| Nitrobenzene-D5 | 23-120 | 41 | | 41 | | 50 | | NA | | 43 | |
| 2-Fluorobiphenyl | 30-115 | 61 | | 60 | | 65 | | NA | | 62 | |
| Terphenyl-D14 | 18-137 | 132 | | 133 | | 136 | | NA | | 124 | |
| Phenol-D5 | 24-113 | 70 | | 66 | | 77 | | NA | | 72 | |
| 2-Fluorophenol | 25-121 | 76 | | 66 | | 80 | | NA | | 73 | |
| 2,4,6-Tribromophenol | 19-122 | 79 | | 89 | | 90 | | NA | | 73 | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/21/96 12:54 ☑015/018

ANALYTICAL RESULTS



| Client Sample ID: | | W-TR06-00 | | W-TR06-01 | | W-TR06-02 | | W-TR06-03 | | W-TR06-04 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510215 | | A96-5102 A6510201 | | A96-5102 A6510202 | | A96-5102 A6510203 | | A96-5102 A6510204 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8080 - POLYCHLORINATED BIPHENYLS | | | | | | | | | | | |
| Aroclor 1016 | 40 | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| Aroclor 1221 | 80 | 80 | U | 80 | U | 80 | U | 80 | U | 80 | U |
| Aroclor 1232 | 40 | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| Aroclor 1242 | 40 | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| Aroclor 1248 | 40 | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| Aroclor 1254 | 40 | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| Aroclor 1260 | 40 | 40 | U | 40 | U | 40 | U | 40 | U | 40 | U |
| SURROGATES | | | | | | | | | | | |
| Tetrachloro-m-xylene | 27-132 | 90 | | 84 | | 76 | | 96 | | 92 | |
| Decachlorobiphenyl | 58-150 | 104 | | 94 | | 84 | | 113 | | 106 | |

* Indicates Result is Outside QC Limits
NA = Not Applicable

| Client Sample ID: | | W-TR06-05 | | W-TR06-06 | | W-TR06-07 | | W-TR06-08 | | W-TR06-09 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510205 | | A96-5102 A6510206 | | A96-5102 A6510207 | | A96-5102 A6510208 | | A96-5102 A6510209 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8080 - POLYCHLORINATED BIPHENYLS | | | | | | | | | | | |
| Aroclor 1016 | 40 | 40 | U | NA | | NA | | 40 | U | 40 | U |
| Aroclor 1221 | 80 | 80 | U | NA | | NA | | 80 | U | 80 | U |
| Aroclor 1232 | 40 | 40 | U | NA | | NA | | 40 | U | 40 | U |
| Aroclor 1242 | 40 | 40 | U | NA | | NA | | 40 | U | 40 | U |
| Aroclor 1248 | 40 | 40 | U | NA | | NA | | 40 | U | 40 | U |
| Aroclor 1254 | 40 | 40 | U | NA | | NA | | 40 | U | 40 | U |
| Aroclor 1260 | 40 | 40 | U | NA | | NA | | 40 | U | 40 | U |
| SURROGATES | | | | | | | | | | | |
| Tetrachloro-m-xylene | 27-132 | 90 | | NA | | NA | | 92 | | 98 | |
| Decachlorobiphenyl | 58-150 | 104 | | NA | | NA | | 107 | | 114 | |

| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD 8080 - TCL PESTICIDES/PCBS | | | | | | | | | | | |
| Aldrin | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| alpha-BHC | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| beta-BHC | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| gamma-BHC (Lindane) | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| delta-BHC | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| Chlordane | 80 | NA | | 80 | U | 80 | U | NA | | NA | |
| 4,4'-DDD | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| 4,4'-DDE | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| 4,4'-DDT | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| Dieldrin | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| Endosulfan I | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| Endosulfan II | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| Endosulfan Sulfate | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| Endrin | 16 | NA | | 16 | U | 16 | U | NA | | NA | |
| Endrin aldehyde | 32 | NA | | 32 | U | 32 | U | NA | | NA | |
| Heptachlor | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| Heptachlor epoxide | 8.0 | NA | | 8.0 | U | 8.0 | U | NA | | NA | |
| Methoxychlor | 80 | NA | | 80 | U | 80 | U | NA | | NA | |
| Toxaphene | 160 | NA | | 160 | U | 160 | U | NA | | NA | |
| Aroclor 1016 | 40 | NA | | 40 | U | 40 | U | NA | | NA | |
| Aroclor 1221 | 80 | NA | | 80 | U | 80 | U | NA | | NA | |
| Aroclor 1232 | 40 | NA | | 40 | U | 40 | U | NA | | NA | |
| Aroclor 1242 | 40 | NA | | 40 | U | 40 | U | NA | | NA | |
| Aroclor 1248 | 40 | NA | | 40 | U | 40 | U | NA | | NA | |
| Aroclor 1254 | 40 | NA | | 40 | U | 40 | U | NA | | NA | |
| Aroclor 1260 | 40 | NA | | 40 | U | 40 | U | NA | | NA | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/22/96 09:12 ☑003/005

| Client Sample ID: | | W-TR06-10 | | W-TR06-11 | | W-TR06-12 | | W-TR06-13 | | W-TR06-14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Job Number & Lab Sample ID: | | A96-5102 A6510210 | | A96-5102 A6510211 | | A96-5102 A6510212 | | A96-5102 A6510213 | | A96-5102 A6510214 | |
| Sample Date: | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | | 10/17/96 | |
| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
| METHOD 8080 - POLYCHLORINATED BIPHENYLS | | | | | | | | | | | |
| Aroclor 1016 | 40 | 40 | U | 40 | U | 40 | U | NA | | 40 | U |
| Aroclor 1221 | 80 | 80 | U | 80 | U | 80 | U | NA | | 80 | U |
| Aroclor 1232 | 40 | 40 | U | 40 | U | 40 | U | NA | | 40 | U |
| Aroclor 1242 | 40 | 40 | U | 40 | U | 40 | U | NA | | 40 | U |
| Aroclor 1248 | 40 | 40 | U | 40 | U | 40 | U | NA | | 40 | U |
| Aroclor 1254 | 40 | 40 | U | 40 | U | 40 | U | NA | | 40 | U |
| Aroclor 1260 | 40 | 40 | U | 40 | U | 40 | U | NA | | 40 | U |
| SURROGATES | | | | | | | | | | | |
| Tetrachloro-m-xylene | 27-132 | 100 | | 90 | | 80 | | NA | | 92 | |
| Decachlorobiphenyl | 58-150 | 115 | | 108 | | 96 | | NA | | 109 | |

| Analyte (UG/KG) | RL | Result | | Result | | Result | | Result | | Result | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD 8080 - TCL PESTICIDES/PCBS | | | | | | | | | | | |
| Aldrin | 8.0 | NA | | NA | | NA | | 8.0 | U | NA | |
| alpha-BHC | 8.0 | NA | | NA | | NA | | 8.0 | U | NA | |
| beta-BHC | 8.0 | NA | | NA | | NA | | 8.0 | U | NA | |
| gamma-BHC (Lindane) | 8.0 | NA | | NA | | NA | | 8.0 | U | NA | |
| delta-BHC | 8.0 | NA | | NA | | NA | | 8.0 | U | NA | |
| Chlordane | 80 | NA | | NA | | NA | | 80 | U | NA | |
| 4,4'-DDD | 16 | NA | | NA | | NA | | 16 | U | NA | |
| 4,4'-DDE | 16 | NA | | NA | | NA | | 16 | U | NA | |
| 4,4'-DDT | 16 | NA | | NA | | NA | | 16 | U | NA | |
| Dieldrin | 16 | NA | | NA | | NA | | 16 | U | NA | |
| Endosulfan I | 16 | NA | | NA | | NA | | 16 | U | NA | |
| Endosulfan II | 16 | NA | | NA | | NA | | 16 | U | NA | |
| Endosulfan Sulfate | 16 | NA | | NA | | NA | | 32 | U | NA | |
| Endrin | 16 | NA | | NA | | NA | | 8.0 | U | NA | |
| Endrin aldehyde | 32 | NA | | NA | | NA | | 8.0 | U | NA | |
| Heptachlor | 8.0 | NA | | NA | | NA | | 80 | U | NA | |
| Heptachlor epoxide | 8.0 | NA | | NA | | NA | | 160 | U | NA | |
| Methoxychlor | 80 | NA | | NA | | NA | | 40 | U | NA | |
| Toxaphene | 160 | NA | | NA | | NA | | 80 | U | NA | |
| Aroclor 1016 | 40 | NA | | NA | | NA | | 40 | U | NA | |
| Aroclor 1221 | 80 | NA | | NA | | NA | | 40 | U | NA | |
| Aroclor 1232 | 40 | NA | | NA | | NA | | 40 | U | NA | |
| Aroclor 1242 | 40 | NA | | NA | | NA | | 40 | U | NA | |
| Aroclor 1248 | 40 | NA | | NA | | NA | | 40 | U | NA | |
| Aroclor 1254 | 40 | NA | | NA | | NA | | 40 | U | NA | |
| Aroclor 1260 | 40 | NA | | NA | | NA | | 40 | U | NA | |

* Indicates Result is Outside QC Limits
NA = Not Applicable



10/22/96 09:14 005/005

Date: 10/24/96
Time: 09:32:47

ANALYTICAL RESULTS

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client Sample ID: | | | W-TR06-00 | W-TR06-01 | W-TR06-02 | W-TR06-03 | W-TR06-04 |
| Job Number & Lab Sample ID: | | | A96-5102 A6510215 | A96-5102 A6510201 | A96-5102 A6510202 | A96-5102 A6510203 | A96-5102 A6510204 |
| Sample Date: | | | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte | UNITS OF MEASURE | RL | Result | Result | Result | Result | Result |
| TOTAL METALS | | | | | | | |
| Thallium - Total | MG/KG | 0.36 | 1.1 | 2.0 | 0.74 | 1.2 | 0.56 |

* Indicates Result is Outside QC Limits
NA = Not Applicable

Date: 10/24/96
Time: 09:38:33

ANALYTICAL RESULTS

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Client Sample ID: | W-TR06-06 | W-TR06-07 | W-TR06-13 | | |
| | | Job Number & Lab Sample ID: | A96-5102 A6510206 | A96-5102 A6510207 | A96-5102 A6510213 | | |
| | | Sample Date: | 10/17/96 | 10/17/96 | 10/17/96 | | |
| Analyte | UNITS OF MEASURE | RL | Result | Result | Result | | |
| TOTAL HSL METALS | | | | | | | |
| Aluminum - Total | MG/KG | 0.77 | 8300 | 10500 | 14200 | | |
| Antimony - Total | MG/KG | 0.57 | 0.69 U | 0.68 U | 0.70 U | | |
| Arsenic - Total | MG/KG | 0.28 | 2.7 | 4.8 | 6.0 | | |
| Barium - Total | MG/KG | 0.024 | 139 | 92.7 | 74.0 | | |
| Beryllium - Total | MG/KG | 0.010 | 1.4 | 1.6 | 0.87 | | |
| Cadmium - Total | MG/KG | 0.021 | 0.025 U | 0.025 U | 0.026 U | | |
| Calcium - Total | MG/KG | 0.54 | 3440 | 2570 | 1330 | | |
| Chromium - Total | MG/KG | 0.26 | 14.3 | 23.8 | 21.6 | | |
| Cobalt - Total | MG/KG | 0.12 | 10.1 | 8.8 | 9.1 | | |
| Copper - Total | MG/KG | 0.087 | 1.6 | 4.0 | 12.4 | | |
| Iron - Total | MG/KG | 2.4 | 17400 | 36000 | 19200 | | |
| Lead - Total | MG/KG | 0.13 | 14.4 | 12.6 | 7.6 | | |
| Magnesium - Total | MG/KG | 0.87 | 3300 | 2970 | 3090 | | |
| Manganese - Total | MG/KG | 0.036 | 3110 | 183 | 391 | | |
| Mercury - Total | MG/KG | 0.033 | 0.040 U | 0.040 U | 0.041 U | | |
| Nickel - Total | MG/KG | 0.25 | 36.5 | 11.6 | 13.6 | | |
| Potassium - Total | MG/KG | 9.3 | 1840 | 1470 | 1250 | | |
| Selenium - Total | MG/KG | 0.28 | 3.0 | 2.4 | 1.4 | | |
| Silver - Total | MG/KG | 0.25 | 0.45 | 0.30 U | 0.31 U | | |
| Sodium - Total | MG/KG | 56.8 | 408 | 367 | 341 | | |
| Thallium - Total | MG/KG | 0.36 | 2.6 | 1.6 | 1.1 | | |
| Vanadium - Total | MG/KG | 0.087 | 14.6 | 23.4 | 37.7 | | |
| Zinc - Total | MG/KG | 0.024 | 38.2 | 34.4 | 42.2 | | |

* Indicates Result is Outside QC Limits
NA = Not Applicable

ANALYTICAL RESULTS



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Client Sample ID: | W-TR06-05 | W-TR06-08 | W-TR06-09 | W-TR06-10 | W-TR06-11 |
| | | Job Number & Lab Sample ID: | A96-5102 A6510205 | A96-5102 A6510208 | A96-5102 A6510209 | A96-5102 A6510210 | A96-5102 A6510211 |
| | | Sample Date: | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 | 10/17/96 |
| Analyte | UNITS OF MEASURE | RL | Result | Result | Result | Result | Result |
| TOTAL METALS | | | | | | | |
| Thallium - Total | MG/KG | 0.36 | 1.2 | 0.77 | 0.51 | 1.3 | 2.3 |

* Indicates Result is Outside QC Limits
NA = Not Applicable

Date: 10/24/96
Time: 09:32:49

ANALYTICAL RESULTS

Rept: AN0353
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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Client Sample ID: | | | W-TR06-12 | W-TR06-14 | | | |
| Job Number & Lab Sample ID: | | | A96-5102 A6510212 | A96-5102 A6510214 | | | |
| Sample Date: | | | 10/17/96 | 10/17/96 | | | |
| Analyte | UNITS OF MEASURE | RL | Result | Result | | | |
| TOTAL METALS | | | | | | | |
| Thallium - Total | MG/KG | 0.36 | 0.41 U | 0.90 | | | |

* Indicates Result is Outside QC Limits
NA = Not Applicable