N62269.AR.000380
NAWC WARMINSTER
5090.3a

Brown & Root Environmental

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C-49-09-6-066

September 10, 1996

Project Number 1412

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

SUBJECT: Technical Memorandum
Site 4 Removal Action
Trench 3 Verification Sampling Results

Dear Mr. Monaco:

The following summarizes the results of the verification sampling performed for Trench 3 during the Site 4 Removal Action. A total of 25 samples (including 3 duplicates) were taken from the trench, as shown in the attached sketch map. No potential hot spot areas were identified, however nine 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 above target concentrations 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 were detected at levels approaching the target concentration, thus no actions are needed due to PCB levels.

Thallium detections ranged from 0.7 to 3.3 mg/kg. The only detection above the revised target concentration for thallium established at 2.9 mg/kg (Table 1) was the 3.3 mg/kg detection in sample TR03-18.

For the remaining metals results, the positive detections were screened against NAWC background concentrations, given in Table 2. The metals concentrations that exceeded background (beryllium, calcium, magnesium, manganese, nickel, selenium, sodium, and zinc) were compared against the calculated target concentrations (Table 1). Beryllium in samples

C-49-09-6-066

TR03-04 (2.3 mg/kg), TR03-14 (2.1 mg/kg), and TR03-26 (2.2 mg/kg) exceeded both the background level of 1.7 mg/kg and the PADEP screening level of 1 mg/kg (but not the risk-based or groundwater protection levels). Sample TR03-26 is a duplicate of sample TR03-04, thus these two exceedances are from the same location. Manganese in sample TR03-18 (3010 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 to metals at sample locations TR03-04/26, TR03-14, and TR03-18. Based on the absence of any other indicators of contamination in these samples (each of which was analyzed for the full TCL/TAL parameters), these minor exceedances are likely to be background variations that fall outside of the previous background data set rather than indicators of residual contamination.

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
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	83	1
Cadmium		20	830	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

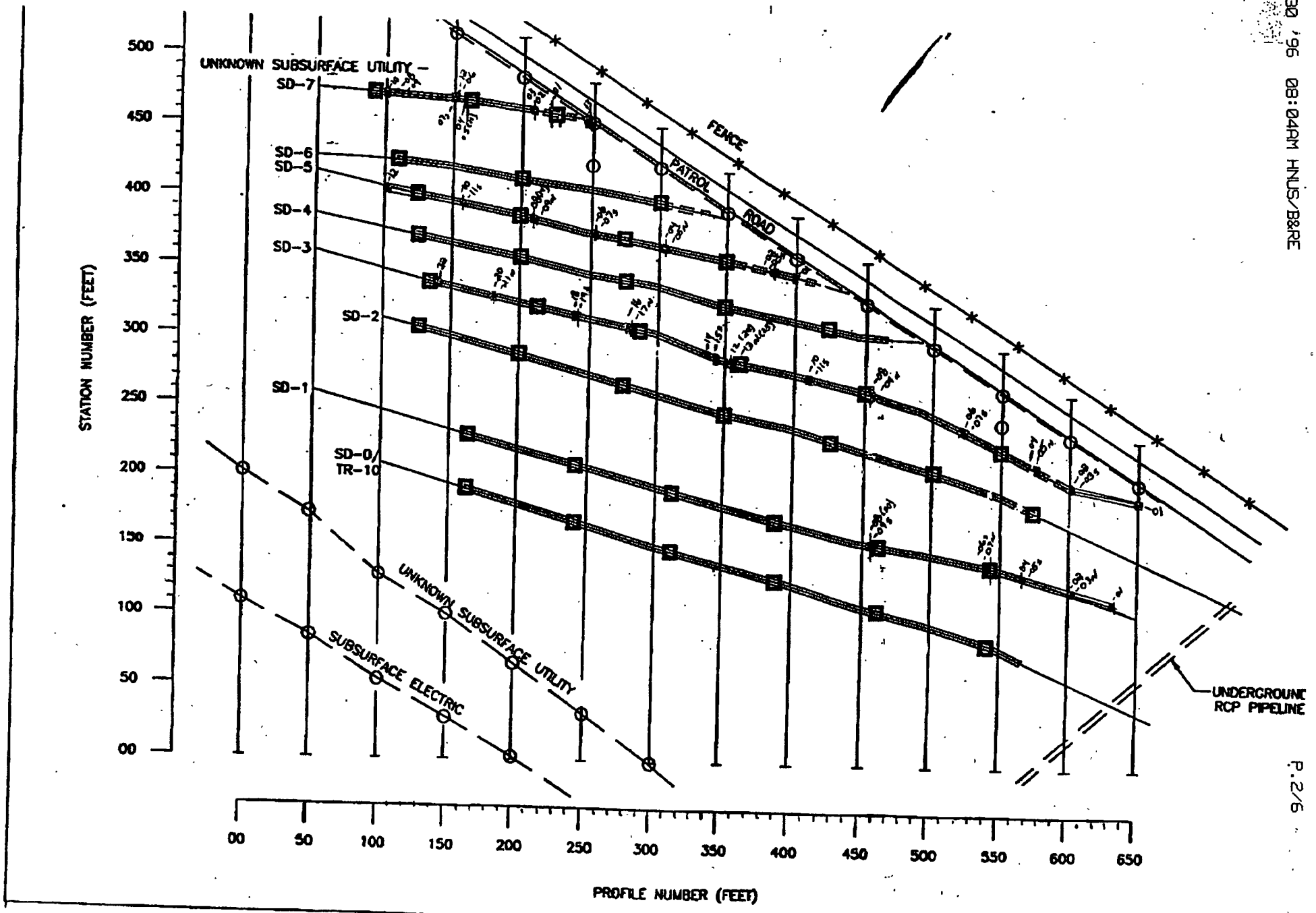
(3) Three references. "Soil Screening Guidance. User's Guide", April 1996, "Aquatic Fate Process Data for Organic Priority Pollutants", USEPA, 1982 and the "Drinking Water Regulations and Health Advisories", February 1996 were used to obtain groundwater protection values.

(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


UNKNOWN SUBSURFACE UTILITY
SD-7
SD-6
SD-5
SD-4
SD-3
SD-2
SD-1
SD-0/
TR-10
FENCE
PATROL
ROAD
UNKNOWN SUBSURFACE UTILITY
SUBSURFACE ELECTRIC
UNDERGROUND
RCP PIPELINE
STATION NUMBER (FEET)
PROFILE NUMBER (FEET)
00
50
100
150
200
250
300
350
400
450
500
550
600
650

AUG 30 '96 08:05AM HNUS/B&RE

CALCULATION WORKSHEET

Order No. 19116 (01-91)

PAGE _____ OF _____

CLIENT		JOB NUMBER	
SUBJECT	TR03 - Sample locations		
BASED ON		DRAWING NUMBER	
BY	CHECKED BY	APPROVED BY	DATE

~~TR07-12 Pro. 150 Sta. 470~~
~~TR07-13~~

		Profile	Station
TR03-22	western end	140	337
TR03-05	nor.	575	218
TR03-06		522	241
TR03-08		456	265
TR03-09	north	456	270
TR03-10		411	278
TR03-12 (24)		355	285
TR03-13 (23)	Nor.	355	290
TR03-14		348	290
TR03-16		283	310
TR03-17	nor.	283	315
TR03-18		246	315
TR03-20		183	330
TR03-21	nor.	183	335
TR03-19	sou.	246	310
TR03-15	sou.	348	285
TR03-11	sou.	411	272
TR03-07	sou.	522	235
TR03-04 (26)		575	213
TR03-03	sou.	601	202
TR03-02		601	207
TR03-01		650	195

Sample TR03-23 is a duplicate of TR03-13
Sample TR03-24 " " " " TR03-12
Sample TR03-26 " " " " TR03-04

ANALYTICAL RESULTS

Client Sample ID:		W-TR03-01		W-TR03-02				
Job Number & Lab Sample ID:		A96-4207 A6420715		A96-4207 A6420714				
Sample Date:		08/28/96		08/28/96				
Analyte (UG/KG)	RL	Result		Result				
METHOD 8260 - PURGEABLE HALOCARBONS								
Bromodichloromethane	5	5	U	5	U			
Bromoform	5	5	U	5	U			
Bromomethane	10	10	U	10	U			
Carbon Tetrachloride	5	5	U	5	U			
Chlorobenzene	5	5	U	5	U			
Chloroethane	10	10	U	10	U			
2-Chloroethylvinyl ether	10	10	U	10	U			
Chloroform	5	2	BJ	2	BJ			
Chloromethane	10	10	U	10	U			
Dibromochloromethane	5	5	U	5	U			
1,2-Dichlorobenzene	5	5	U	5	U			
1,3-Dichlorobenzene	5	5	U	5	U			
1,4-Dichlorobenzene	5	5	U	5	U			
1,1-Dichl roethane	5	5	U	5	U			
1,2-Dichloroethane	5	5	U	5	U			
1,1-Dichloroethene	5	5	U	5	U			
cis-1,2-Dichloroethene	5	5	U	5	U			
trans-1,2-Dichloroethene	5	5	U	5	U			
1,2-Dichloropropane	5	5	U	5	U			
cis-1,3-Dichloropropene	5	5	U	5	U			
trans-1,3-Dichloropropene	5	5	U	5	U			
Methylene chloride	5	5	U	5	U			
1,1,2,2-Tetrachloroethane	5	5	U	5	U			
Tetrachloroethene	5	5	U	5	U			
1,1,1-Trichloroethane	5	5	U	5	U			
1,1,2-Trichloroethane	5	5	U	5	U			
Trichloroethene	5	5	U	5	U			
Trichlorofluoromethane	5	5	U	5	U			
Vinyl chloride	10	10	U	10	U			
INTERNAL STANDARDS								
Bromochloromethane	50-200	90		81				
1,4-Difluorobenzene	50-200	87		75				
Chlorobenzene-D5	50-200	82		72				
SURROGATES								
Toluene-D8	81-117	95		96				
p-Bromofluorobenzene	74-121	85		92				
1,2-Dichloroethane-D4	80-120	93		88				

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 17:03 009/018

ANALYTICAL RESULTS

Client Sample ID:		W-TR03-03	W-TR03-04	W-TR03-05	W-TR03-06	W-TR03-06RE
Job Number & Lab Sample ID:		A96-4114 A6411421	A96-4114 A6411420	A96-4114 A6411403	A96-4114 A6411404	A96-4114 A6411404RI
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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
Chl romethane	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	3 BJ	4 BJ	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	91	87	NA	NA
1,4-Difluorobenzene	50-200	NA	78	71	NA	NA
Chlorobenzene-D5	50-200	NA	74	69	NA	NA
SURROGATES						
Toluene-D8	81-117	NA	115	116	NA	NA
p-Bromofluorobenzene	74-121	NA	87	94	NA	NA

* Indicates Result is Outside QC Limits
NA = N t Applicable

08/29/96 15:25 002/029

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-03 A96-4114 A6411421 08/26/96		W-TR03-04 A96-4114 A6411420 08/26/96	W-TR03-05 A96-4114 A6411403 08/26/96		W-TR03-06 A96-4114 A6411404 08/26/96		W-TR03-06RE A96-4114 A6411404RI 08/26/96	
Analyte (UG/KG)	RL	Result		Result	Result		Result		Result	
METHOD 8260 - TCL VOLATILE ORGANICS										
1,2-Dichloroethane-D4	80-120	NA		103	96		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	3	BJ	NA	NA		3	BJ	3	BJ
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	84		NA	NA		94		109	
1,4-Difluorobenzene	50-200	65		NA	NA		76		92	
Chlorobenzene-D5	50-200	64		NA	NA		68		94	
SURROGATES										
Toluene-D8	81-117	114		NA	NA		121	*	118	*

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:25 003/029

Date: 08/29/96
Time: 13:55:31

ANALYTICAL RESULTS

Rept: AN0353
Page: 3

Client Sample ID:		W-TR03-03	W-TR03-04	W-TR03-05	W-TR03-06	W-TR03-06RE
Job Number & Lab Sample ID:		A96-4114 A6411421	A96-4114 A6411420	A96-4114 A6411403	A96-4114 A6411404	A96-4114 A6411404R1
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8260 - PURGEABLE HALOCARBONS						
p-Bromofluorobenzene	74-121	90	NA	NA	92	89
1,2-Dichloroethane-D4	80-120	99	NA	NA	98	103

* Indicates Result is Outside QC Limits
NA = Not Applicable

Client Sample ID:		W-TR03-07	W-TR03-08	W-TR03-09	W-TR03-10	W-TR03-11
Job Number & Lab Sample ID:		A96-4114 A6411419	A96-4114 A6411405	A96-4114 A6411406	A96-4114 A6411407	A96-4114 A6411418
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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-Dichl ropropane	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	4 BJ	3 BJ	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	85	109	NA	NA
1,4-Difluorobenzene	50-200	NA	76	91	NA	NA
Chlorobenzene-D5	50-200	NA	72	94	NA	NA
SURROGATES						
Toluene-D8	81-117	NA	114	117	NA	NA
p-Bromofluorobenzene	74-121	NA	91	93	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:27 005/029

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-07 A96-4114 A6411419 08/26/96		W-TR03-08 A96-4114 A6411405 08/26/96	W-TR03-09 A96-4114 A6411406 08/26/96		W-TR03-10 A96-4114 A6411407 08/26/96		W-TR03-11 A96-4114 A6411418 08/26/96	
Analyte (UG/KG)	RL	Result		Result	Result		Result		Result	
METHOD 8260 - TCL VOLATILE ORGANICS										
1,2-Dichloroethane-D4	80-120	NA		102	104		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	3	BJ	NA	NA		3	BJ	3	BJ
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-Trichl roethane	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	87		NA	NA		110		86	
1,4-Difluorobenzene	50-200	74		NA	NA		92		64	
Chlorobenzene-D5	50-200	72		NA	NA		97		66	
SURROGATES										
Toluene-D8	81-117	113		NA	NA		116		109	

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:28 ☑006/029

Client Sample ID:		W-TR03-07	W-TR03-08	W-TR03-09	W-TR03-10	W-TR03-11
Job Number & Lab Sample ID:		A96-4114 A6411419	A96-4114 A6411405	A96-4114 A6411406	A96-4114 A6411407	A96-4114 A6411418
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8260 - PURGEABLE HALOCARBONS						
p-Bromofluorobenzene	74-121	89	NA	NA	91	86
1,2-Dichloroethane-D4	80-120	106	NA	NA	103	88

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:28 ☎ 007/029

Client Sample ID:		W-TR03-12	W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16
Job Number & Lab Sample ID:		A96-4114 A6411408	A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8260 - TCL VOLATILE ORGANICS						
Acetone	10	NA	NA	10 U	10 U	NA
Benzene	5	NA	NA	5 U	5 U	NA
Bromodichloromethane	5	NA	NA	5 U	5 U	NA
Bromoform	5	NA	NA	5 U	5 U	NA
Bromomethane	10	NA	NA	10 U	10 U	NA
2-Butanone	10	NA	NA	10 U	10 U	NA
Carbon Disulfide	5	NA	NA	5 U	5 U	NA
Carbon Tetrachloride	5	NA	NA	5 U	5 U	NA
Chlorobenzene	5	NA	NA	5 U	5 U	NA
Chloroethane	10	NA	NA	10 U	10 U	NA
Chloroform	5	NA	NA	5 U	5 U	NA
Chloromethane	10	NA	NA	10 U	10 U	NA
Dibromochloromethane	5	NA	NA	5 U	5 U	NA
1,1-Dichloroethane	5	NA	NA	5 U	5 U	NA
1,2-Dichloroethane	5	NA	NA	5 U	5 U	NA
1,1-Dichloroethene	5	NA	NA	5 U	5 U	NA
cis-1,2-Dichloroethene	5	NA	NA	5 U	5 U	NA
trans-1,2-Dichloroethene	5	NA	NA	5 U	5 U	NA
1,2-Dichloropropane	5	NA	NA	5 U	5 U	NA
cis-1,3-Dichloropropene	5	NA	NA	5 U	5 U	NA
trans-1,3-Dichloropropene	5	NA	NA	5 U	5 U	NA
Ethylbenzene	5	NA	NA	5 U	5 U	NA
2-Hexanone	10	NA	NA	10 U	10 U	NA
Methylene chloride	5	NA	NA	3 BJ	4 BJ	NA
4-Methyl-2-pentanone	10	NA	NA	10 U	10 U	NA
Styrene	5	NA	NA	5 U	5 U	NA
1,1,2,2-Tetrachloroethane	5	NA	NA	5 U	5 U	NA
Tetrachloroethene	5	NA	NA	5 U	5 U	NA
Toluene	5	NA	NA	5 U	5 U	NA
1,1,1-Trichloroethane	5	NA	NA	5 U	5 U	NA
1,1,2-Trichl roethane	5	NA	NA	5 U	5 U	NA
Trichloroethene	5	NA	NA	5 U	5 U	NA
Vinyl acetate	10	NA	NA	10 U	10 U	NA
Vinyl chloride	10	NA	NA	10 U	10 U	NA
Total Xylenes	15	NA	NA	15 U	15 U	NA
INTERNAL STANDARDS						
Bromochloromethane	50-200	NA	NA	116	86	NA
1,4-Difluorobenzene	50-200	NA	NA	89	67	NA
Chlorobenzene-D5	50-200	NA	NA	98	71	NA
SURROGATES						
Toluene-D8	81-117	NA	NA	107	109	NA
p-Bromofluorobenzene	74-121	NA	NA	91	91	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:29 008/029

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-12 A96-4114 A6411408 08/26/96		W-TR03-13 A96-4114 A6411409 08/26/96		W-TR03-14 A96-4114 A6411410 08/26/96		W-TR03-15 A96-4114 A6411417 08/26/96		W-TR03-16 A96-4114 A6411411 08/26/96	
Analyte (UG/KG)	RL	Result		Result		Result		Result		Result	
METHOD 8260 - TCL VOLATILE ORGANICS											
1,2-Dichloroethane-D4	80-120	NA		NA		92		100		NA	
Analyte (UG/KG)	RL	Result		Result		Result		Result		Result	
METHOD 8260 - PURGEABLE HALOCARBONS											
Bromodichloromethane	5	5	U	5	U	NA		NA		5	U
Bromoform	5	5	U	5	U	NA		NA		5	U
Bromomethane	10	10	U	10	U	NA		NA		10	U
Carbon Tetrachloride	5	5	U	5	U	NA		NA		5	U
Chlorobenzene	5	5	U	5	U	NA		NA		5	U
Chloroethane	10	10	U	10	U	NA		NA		10	U
2-Chloroethylvinyl ether	10	10	U	10	U	NA		NA		10	U
Chloroform	5	5	U	5	U	NA		NA		5	U
Chloromethane	10	10	U	10	U	NA		NA		10	U
Dibromochloromethane	5	5	U	5	U	NA		NA		5	U
1,2-Dichlorobenzene	5	5	U	5	U	NA		NA		5	U
1,3-Dichlorobenzene	5	5	U	5	U	NA		NA		5	U
1,4-Dichl robenzene	5	5	U	5	U	NA		NA		5	U
1,1-Dichloroethane	5	5	U	5	U	NA		NA		5	U
1,2-Dichloroethane	5	5	U	5	U	NA		NA		5	U
1,1-Dichloroethene	5	5	U	5	U	NA		NA		5	U
cis-1,2-Dichloroethene	5	5	U	5	U	NA		NA		5	U
trans-1,2-Dichloroethene	5	5	U	5	U	NA		NA		5	U
1,2-Dichloropropane	5	5	U	5	U	NA		NA		5	U
cis-1,3-Dichloropropene	5	5	U	5	U	NA		NA		5	U
trans-1,3-Dichloropropene	5	5	U	5	U	NA		NA		5	U
Methylene chloride	5	3	BJ	2	BJ	NA		NA		4	BJ
1,1,2,2-Tetrachloroethane	5	5	U	5	U	NA		NA		5	U
Tetrachloroethene	5	5	U	5	U	NA		NA		5	U
1,1,1-Trichloroethane	5	5	U	5	U	NA		NA		5	U
1,1,2-Trichloroethane	5	5	U	5	U	NA		NA		5	U
Trichloroethene	5	5	U	5	U	NA		NA		5	U
Trichlor fluoromethane	5	5	U	5	U	NA		NA		5	U
Vinyl chloride	10	10	U	10	U	NA		NA		10	U
INTERNAL STANDARDS											
Bromochloromethane	50-200	112		109		NA		NA		115	
1,4-Difluorobenzene	50-200	91		92		NA		NA		94	
Chlorobenzene-D5	50-200	97		91		NA		NA		99	
SURROGATES											
Toluene-D8	81-117	115		110		NA		NA		112	

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:30 009/029

Client Sample ID:		W-TR03-12	W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16
Job Number & Lab Sample ID:		A96-4114 A6411408	A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8260 - PURGEABLE HALOCARBONS						
p-Bromofluorobenzene	74-121	90	87	NA	NA	99
1,2-Dichl roethane-D4	80-120	100	94	NA	NA	97

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:31 ☎ 010/029

Client Sample ID:		W-TR03-17	W-TR03-18	W-TR03-19	W-TR03-20	W-TR03-21
Job Number & Lab Sample ID:		A96-4114 A6411412	A96-4114 A6411413	A96-4114 A6411416	A96-4114 A6411414	A96-4114 A6411415
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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	0.3 J	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	3 BJ	4 BJ	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
T tal Xylenes	15	NA	15 U	15 U	NA	NA
INTERNAL STANDARDS						
Bromochloromethane	50-200	NA	156	94	NA	NA
1,4-Difluorobenzene	50-200	NA	114	67	NA	NA
Chlorobenzene-D5	50-200	NA	132	73	NA	NA
SURROGATES						
Toluene-D8	81-117	NA	102	106	NA	NA
p-Bromofluorobenzene	74-121	NA	90	93	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:31 ☎ 011/029

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-17 A96-4114 A6411412 08/26/96		W-TR03-18 A96-4114 A6411413 08/26/96	W-TR03-19 A96-4114 A6411416 08/26/96	W-TR03-20 A96-4114 A6411414 08/26/96	W-TR03-21 A96-4114 A6411415 08/26/96
Analyte (UG/KG)	RL	Result		Result	Result	Result	Result
METHOD 8260 - TCL VOLATILE ORGANICS							
1,2-Dichloroethane-D4	80-120	NA		84	96	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
Chl roform	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	3	BJ	NA	NA	4	BJ	4	BJ
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	108		NA	NA	98		100	
1,4-Difluorobenzene	50-200	87		NA	NA	78		65	
Chlorobenzene-D5	50-200	92		NA	NA	78		69	
SURROGATES									
Toluene-D8	81-117	108		NA	NA	114		108	

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:32 012/029

Client Sample ID:		W-TR03-17	W-TR03-18	W-TR03-19	W-TR03-20	W-TR03-21
Job Number & Lab Sample ID:		A96-4114 A6411412	A96-4114 A6411413	A96-4114 A6411416	A96-4114 A6411414	A96-4114 A6411415
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8260 - PURGEABLE HALOCARBONS						
p-Bromofluorobenzene	74-121	92	NA	NA	100	96
1,2-Dichloroethane-D4	80-120	96	NA	NA	97	89

* Indicates Result is Outside QC Limits
NA = Not Applicabl

08/29/96 15:33 013/029

Client Sample ID:		W-TR03-22	W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13
Job Number & Lab Sample ID:		A96-4114 A6411402	A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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	3 BJ	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
Trichlor ethene	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	92	NA
1,4-Difluorobenzene	50-200	NA	NA	NA	58	NA
Chl robenzene-D5	50-200	NA	NA	NA	61	NA
SURROGATES						
Toluene-D8	81-117	NA	NA	NA	110	NA
p-Bromofluorobenzene	74-121	NA	NA	NA	88	NA

* Indicates Result is Outside QC Limits
NA = N t Applicable

08/29/96 15:33 014/029

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-22 A96-4114 A6411402 08/26/96		W-TR03-23 A96-4114 A6411422 08/26/96		W-TR03-24 A96-4114 A6411423 08/26/96		W-TR03-26 A96-4114 A6411424 08/26/96		W-TR07-13 A96-4114 A6411401 08/26/96	
Analyte (UG/KG)	RL	Result		Result		Result		Result		Result	
METHOD 8260 - TCL VOLATILE ORGANICS											
1,2-Dichloroethane-D4	80-120	NA		NA		NA		82		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	4	BJ	4	BJ	3	BJ	NA		4	BJ
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	90		74		82		NA		80	
1,4-Difluorobenzene	50-200	75		65		71		NA		66	
Chlorobenzene-D5	50-200	71		61		67		NA		63	
SURROGATES											
Toluene-D8	81-117	116		114		116		NA		116	

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:34 015/029

Client Sample ID:		W-TR03-22	W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13
Job Number & Lab Sample ID:		A96-4114 A6411402	A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8260 - PURGEABLE HALOCARBONS						
p-Bromofluorobenzene	74-121	90	86	94	NA	91
1,2-Dichloroethane-D4	80-120	99	100	103	NA	96

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:35 016/029

Client Sample ID:		W-TR03-01		W-TR03-02				
Job Number & Lab Sample ID:		A96-4207 A6420715		A96-4207 A6420714				
Sample Date:		08/28/96		08/28/96				
Analyte (UG/KG)	RL	Result		Result				
METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS								
Acenaphthene	330	330	U	330	U			
Acenaphthylene	330	330	U	330	U			
Anthracene	330	330	U	330	U			
Benzo(a)anthracene	330	330	U	330	U			
Benzo(b)fluoranthene	330	330	U	330	U			
Benzo(k)fluoranthene	330	330	U	330	U			
Benzo(ghi)perylene	330	330	U	330	U			
Benzo(a)pyrene	330	330	U	330	U			
Chrysene	330	330	U	330	U			
Dibenzo(a,h)anthracene	330	330	U	330	U			
Fluoranthene	330	330	U	330	U			
Fluorene	330	330	U	330	U			
Indeno(1,2,3-cd)pyrene	330	330	U	330	U			
2-Methylnaphthalene	330	330	U	330	U			
Naphthalene	330	330	U	330	U			
Phenanthrene	330	330	U	330	U			
Pyrene	330	330	U	330	U			
INTERNAL STANDARDS								
1,4-Dichlorobenzene-D4	50-200	102		110				
Naphthalene-D8	50-200	102		113				
Acenaphthene-D10	50-200	100		109				
Phenanthrene-D10	50-200	105		112				
Chrysene-D12	50-200	103		110				
Perylene-D12	50-200	110		114				
SURROGATES								
Nitrobenzene-D5	23-120	58		70				
2-Fluorobiphenyl	30-115	69		77				
Terphenyl-D14	18-137	86		96				
Phenol-D5	24-113	62		68				
2-Fluorophenol	25-121	59		66				
2,4,6-Tribromophenol	19-122	100		94				

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/05/96 10:32 013/013

Client Sample ID:		W-TR03-03		W-TR03-04		W-TR03-05		W-TR03-06		W-TR03-07	
Job Number & Lab Sample ID:		A96-4114 A6411421		A96-4114 A6411420		A96-4114 A6411403		A96-4114 A6411404		A96-4114 A6411419	
Sample Date:		08/26/96		08/26/96		08/26/96		08/26/96		08/26/96	
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		65	J	330	U
Benzo(b)fluoranthene	330	330	U	NA		NA		84	J	330	U
Benzo(k)fluoranthene	330	330	U	NA		NA		330	U	330	U
Benzo(ghi)perylene	330	330	U	NA		NA		25	J	330	U
Benzo(a)pyrene	330	330	U	NA		NA		330	U	330	U
Chrysene	330	330	U	NA		NA		64	J	330	U
Dibenzo(a,h)anthracene	330	330	U	NA		NA		330	U	330	U
Fluoranthene	330	330	U	NA		NA		100	J	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		52	J	330	U
Pyrene	330	330	U	NA		NA		130	J	330	U
INTERNAL STANDARDS											
1,4-Dichlorobenzene-D4	50-200	126		NA		NA		106		112	
Naphthalene-D8	50-200	125		NA		NA		111		118	
Acenaphthene-D10	50-200	135		NA		NA		116		121	
Phenanthrene-D10	50-200	128		NA		NA		116		120	
Chrysene-D12	50-200	109		NA		NA		97		98	
Perylene-D12	50-200	122		NA		NA		105		112	
SURROGATES											
Nitrobenzene-D5	23-120	73		NA		NA		35		77	
2-Fluorobiphenyl	30-115	86		NA		NA		52		86	
Terphenyl-D14	18-137	104		NA		NA		98		106	
Phenol-D5	24-113	75		NA		NA		38		80	
2-Fluorophenol	25-121	73		NA		NA		36		75	
2,4,6-Tribromophenol	19-122	97		NA		NA		100		100	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:09 004/016

Client Sample ID:		W-TR03-03	W-TR03-04	W-TR03-05	W-TR03-06	W-TR03-07
Job Number & Lab Sample ID:		A96-4114 A6411421	A96-4114 A6411420	A96-4114 A6411403	A96-4114 A6411404	A96-4114 A6411419
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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 Applicabl

09/04/96 09:08 002/016

Client Sample ID:		W-TR03-03		W-TR03-04		W-TR03-05		W-TR03-06		W-TR03-07	
Job Number & Lab Sample ID:		A96-4114 A6411421		A96-4114 A6411420		A96-4114 A6411403		A96-4114 A6411404		A96-4114 A6411419	
Sample Dat :		08/26/96		08/26/96		08/26/96		08/26/96		08/26/96	
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		114		106		NA		NA	
Naphthalene-D8	50-200	NA		116		112		NA		NA	
Acenaphthene-D10	50-200	NA		124		115		NA		NA	
Phenanthrene-D10	50-200	NA		117		115		NA		NA	
Chrysene-D12	50-200	NA		97		98		NA		NA	
Perylene-D12	50-200	NA		112		113		NA		NA	
SURROGATES											
Nitrobenzene-D5	23-120	NA		74		57		NA		NA	
2-Fluorobiphenyl	30-115	NA		85		69		NA		NA	
Terphenyl-D14	18-137	NA		101		93		NA		NA	
Phenol-D5	24-113	NA		76		64		NA		NA	
2-Fluorophenol	25-121	NA		74		59		NA		NA	
2,4,6-Tribromophenol	19-122	NA		86		84		NA		NA	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:08 003/016

Client Sample ID:		W-TR03-08		W-TR03-09		W-TR03-10	W-TR03-11	W-TR03-12
Job Number & Lab Sample ID:		A96-4114 A6411405		A96-4114 A6411406		A96-4114 A6411407	A96-4114 A6411418	A96-4114 A6411408
Sample Date:		08/26/96		08/26/96		08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result		Result		Result	Result	Result
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS								
Acenaphthene	330	330	U	330	U	NA	NA	NA
Acenaphthylene	330	330	U	330	U	NA	NA	NA
Anthracene	330	330	U	330	U	NA	NA	NA
Benzo(a)anthracene	330	330	U	330	U	NA	NA	NA
Benzo(b)fluoranthene	330	330	U	60	J	NA	NA	NA
Benzo(k)fluoranthene	330	330	U	330	U	NA	NA	NA
Benzo(ghi)perylene	330	330	U	330	U	NA	NA	NA
Benzo(a)pyrene	330	330	U	330	U	NA	NA	NA
Benzoic acid	1600	1600	U	1600	U	NA	NA	NA
Benzyl alcohol	330	330	U	330	U	NA	NA	NA
Bis(2-chloroethoxy) methane	330	330	U	330	U	NA	NA	NA
Bis(2-chloroethyl) ether	330	330	U	330	U	NA	NA	NA
Bis(2-chloroisopropyl) ether	330	330	U	330	U	NA	NA	NA
Bis(2-ethylhexyl) phthalate	330	330	U	330	U	NA	NA	NA
4-Bromophenyl phenyl ether	330	330	U	330	U	NA	NA	NA
Butyl benzyl phthalate	330	330	U	330	U	NA	NA	NA
4-Chloroaniline	330	330	U	330	U	NA	NA	NA
4-Chloro-3-methylphenol	330	330	U	330	U	NA	NA	NA
2-Chloronaphthalene	330	330	U	330	U	NA	NA	NA
2-Chlorophenol	330	330	U	330	U	NA	NA	NA
4-Chlorodiphenylether	330	330	U	330	U	NA	NA	NA
Chrysene	330	330	U	330	U	NA	NA	NA
Dibenzo(a,h)anthracene	330	330	U	330	U	NA	NA	NA
Dibenzofuran	330	330	U	330	U	NA	NA	NA
Di-n-butyl phthalate	330	330	U	330	U	NA	NA	NA
1,2-Dichlorobenzene	330	330	U	330	U	NA	NA	NA
1,3-Dichlorobenzene	330	330	U	330	U	NA	NA	NA
1,4-Dichlorobenzene	330	330	U	330	U	NA	NA	NA
3,3'-Dichlorobenzidine	660	660	U	660	U	NA	NA	NA
2,4-Dichlorophenol	330	330	U	330	U	NA	NA	NA
Diethyl phthalate	330	330	U	330	U	NA	NA	NA
2,4-Dimethylphenol	330	330	U	330	U	NA	NA	NA
Dimethyl phthalate	330	330	U	330	U	NA	NA	NA
4,6-Dinitro-2-methylphenol	1600	1600	U	1600	U	NA	NA	NA
2,4-Dinitrophenol	1600	1600	U	1600	U	NA	NA	NA
2,4-Dinitrotoluene	330	330	U	330	U	NA	NA	NA
2,6-Dinitrotoluene	330	330	U	330	U	NA	NA	NA
Di-n-octyl phthalate	330	330	U	330	U	NA	NA	NA
Fluoranthene	330	330	U	100	J	NA	NA	NA
Fluorene	330	330	U	330	U	NA	NA	NA
Hexachlorobenzene	330	330	U	330	U	NA	NA	NA
Hexachl robutadiene	330	330	U	330	U	NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:10 005/016

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-08 A96-4114 A6411405 08/26/96		W-TR03-09 A96-4114 A6411406 08/26/96		W-TR03-10 A96-4114 A6411407 08/26/96	W-TR03-11 A96-4114 A6411418 08/26/96	W-TR03-12 A96-4114 A6411408 08/26/96
Analyte (UG/KG)	RL	Result		Result		Result	Result	Result
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS								
Hexachlorocyclopentadiene	330	330	U	330	U	NA	NA	NA
Hexachloroethane	330	330	U	330	U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	330	330	U	330	U	NA	NA	NA
Isophorone	330	330	U	330	U	NA	NA	NA
2-Methylnaphthalene	330	330	U	330	U	NA	NA	NA
2-Methylphenol	330	330	U	330	U	NA	NA	NA
4-Methylphenol	330	330	U	330	U	NA	NA	NA
Naphthalene	330	330	U	330	U	NA	NA	NA
2-Nitroaniline	1600	1600	U	1600	U	NA	NA	NA
3-Nitroaniline	1600	1600	U	1600	U	NA	NA	NA
4-Nitroaniline	1600	1600	U	1600	U	NA	NA	NA
Nitrobenzene	330	330	U	330	U	NA	NA	NA
2-Nitrophenol	330	330	U	330	U	NA	NA	NA
4-Nitrophenol	1600	1600	U	1600	U	NA	NA	NA
N-nitrosodiphenylamine	330	330	U	330	U	NA	NA	NA
N-Nitroso-Di-n-propylamine	330	330	U	330	U	NA	NA	NA
Pentachlorophenol	1600	1600	U	1600	U	NA	NA	NA
Phenanthrene	330	330	U	26	J	NA	NA	NA
Phenol	330	330	U	330	U	NA	NA	NA
Pyrene	330	330	U	120	J	NA	NA	NA
1,2,4-Trichlorobenzene	330	330	U	330	U	NA	NA	NA
2,4,5-Trichlorophenol	800	800	U	800	U	NA	NA	NA
2,4,6-Trichlorophenol	330	330	U	330	U	NA	NA	NA
INTERNAL STANDARDS								
1,4-Dichlorobenzene-D4	50-200	98		98		NA	NA	NA
Naphthalene-D8	50-200	103		103		NA	NA	NA
Acenaphthene-D10	50-200	107		104		NA	NA	NA
Phenanthrene-D10	50-200	105		108		NA	NA	NA
Chrysene-D12	50-200	92		90		NA	NA	NA
Perylene-D12	50-200	101		100		NA	NA	NA
SURROGATES								
Nitrobenzene-D5	23-120	58		42		NA	NA	NA
2-Fluorobiphenyl	30-115	70		51		NA	NA	NA
Terphenyl-D14	18-137	91		95		NA	NA	NA
Phenol-D5	24-113	64		44		NA	NA	NA
2-Fluorophenol	25-121	58		40		NA	NA	NA
2,4,6-Tribromophenol	19-122	80		64		NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:10 006/016

ANALYTICAL RESULTS

Client Sample ID:		W-TR03-08	W-TR03-09	W-TR03-10		W-TR03-11		W-TR03-12	
Job Number & Lab Sample ID:		A96-4114 A6411405	A96-4114 A6411406	A96-4114 A6411407		A96-4114 A6411418		A96-4114 A6411408	
Sample Date:		08/26/96	08/26/96	08/26/96		08/26/96		08/26/96	
Analyte (UG/KG)	RL	Result	Result	Result		Result		Result	
METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS									
Acenaphthene	330	NA	NA	330	U	330	U	330	U
Acenaphthylene	330	NA	NA	330	U	330	U	330	U
Anthracene	330	NA	NA	330	U	330	U	330	U
Benzo(a)anthracene	330	NA	NA	330	U	330	U	330	U
Benzo(b)fluoranthene	330	NA	NA	330	U	330	U	330	U
Benzo(k)fluoranthene	330	NA	NA	330	U	330	U	330	U
Benzo(ghi)perylene	330	NA	NA	330	U	330	U	330	U
Benzo(a)pyrene	330	NA	NA	330	U	330	U	330	U
Chrysene	330	NA	NA	330	U	330	U	330	U
Dibenzo(a,h)anthracene	330	NA	NA	330	U	330	U	330	U
Fluoranthene	330	NA	NA	330	U	330	U	330	U
Fluorene	330	NA	NA	330	U	330	U	330	U
Indeno(1,2,3-cd)pyrene	330	NA	NA	330	U	330	U	330	U
2-Methylnaphthalene	330	NA	NA	330	U	330	U	330	U
Naphthalene	330	NA	NA	330	U	330	U	330	U
Phenanthrene	330	NA	NA	330	U	330	U	330	U
Pyrene	330	NA	NA	330	U	330	U	330	U
INTERNAL STANDARDS									
1,4-Dichlorobenzene-D4	50-200	NA	NA	94		120		96	
Naphthalene-D8	50-200	NA	NA	95		122		99	
Acenaphthene-D10	50-200	NA	NA	89		131		97	
Phenanthrene-D10	50-200	NA	NA	93		125		100	
Chrysene-D12	50-200	NA	NA	74		105		78	
Perylene-D12	50-200	NA	NA	83		119		91	
SURROGATES									
Nitrobenzene-D5	23-120	NA	NA	57		76		51	
2-Fluorobiphenyl	30-115	NA	NA	70		89		64	
Terphenyl-D14	18-137	NA	NA	103		104		104	
Phenol-D5	24-113	NA	NA	59		78		55	
2-Fluorophenol	25-121	NA	NA	56		75		52	
2,4,6-Tribromophenol	19-122	NA	NA	85		96		72	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:11 007/016

Client Sample ID:		W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16	W-TR03-17
Job Number & Lab Sample ID:		A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411	A96-4114 A6411412
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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	96	NA	NA	97	95
Naphthalene-D8	50-200	99	NA	NA	96	95
Acenaphthene-D10	50-200	97	NA	NA	98	93
Phenanthrene-D10	50-200	97	NA	NA	97	95
Chrysene-D12	50-200	78	NA	NA	78	75
Perylene-D12	50-200	90	NA	NA	88	86
SURROGATES						
Nitrobenzene-D5	23-120	53	NA	NA	57	46
2-Fluorobiphenyl	30-115	65	NA	NA	66	59
Terphenyl-D14	18-137	103	NA	NA	107	91
Phenol-D5	24-113	56	NA	NA	58	48
2-Fluorophenol	25-121	51	NA	NA	54	47
2,4,6-Tribromophenol	19-122	73	NA	NA	74	75

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:14 ☎ 010/016

Client Sample ID:		W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16	W-TR03-17
Job Number & Lab Sample ID:		A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411	A96-4114 A6411412
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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

09/04/96 09:12 008/016

Client Sample ID:		W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16	W-TR03-17
Job Number & Lab Sample ID:		A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411	A96-4114 A6411412
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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	98	115	NA	NA
Naphthalene-D8	50-200	NA	103	117	NA	NA
Acenaphthene-D10	50-200	NA	104	125	NA	NA
Phenanthrene-D10	50-200	NA	106	123	NA	NA
Chrysene-D12	50-200	NA	87	99	NA	NA
Perylene-D12	50-200	NA	98	106	NA	NA
SURROGATES						
Nitrobenzene-D5	23-120	NA	65	63	NA	NA
2-Fluorobiphenyl	30-115	NA	80	63	NA	NA
T rphenyl-D14	18-137	NA	104	101	NA	NA
Phenol-D5	24-113	NA	69	61	NA	NA
2-Fluorophenol	25-121	NA	64	60	NA	NA
2,4,6-Tribromophenol	19-122	NA	89	69	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 08:13 009/016

Client Sample ID:		W-TR03-18		W-TR03-19		W-TR03-20	W-TR03-21	W-TR03-22
Job Number & Lab Sample ID:		A96-4114 A6411413		A96-4114 A6411416		A96-4114 A6411414	A96-4114 A6411415	A96-4114 A6411402
Sample Date:		08/26/96		08/26/96		08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result		Result		Result	Result	Result
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS								
Acenaphthene	330	330	U	330	U	NA	NA	NA
Acenaphthylene	330	330	U	330	U	NA	NA	NA
Anthracene	330	330	U	330	U	NA	NA	NA
Benzo(a)anthracene	330	330	U	330	U	NA	NA	NA
Benz (b)fluoranthene	330	330	U	330	U	NA	NA	NA
Benzo(k)fluoranthene	330	330	U	330	U	NA	NA	NA
Benzo(ghi)perylene	330	330	U	330	U	NA	NA	NA
Benzo(a)pyrene	330	330	U	330	U	NA	NA	NA
Benzoic acid	1600	1600	U	1600	U	NA	NA	NA
Benzyl alcohol	330	330	U	330	U	NA	NA	NA
Bis(2-chloroethoxy) methane	330	330	U	330	U	NA	NA	NA
Bis(2-chloroethyl) ether	330	330	U	330	U	NA	NA	NA
Bis(2-chloroisopropyl) ether	330	330	U	330	U	NA	NA	NA
Bis(2-ethylhexyl) phthalate	330	330	U	330	U	NA	NA	NA
4-Bromophenyl phenyl ether	330	330	U	330	U	NA	NA	NA
Butyl benzyl phthalate	330	330	U	330	U	NA	NA	NA
4-Chloroaniline	330	330	U	330	U	NA	NA	NA
4-Chloro-3-methylphenol	330	330	U	330	U	NA	NA	NA
2-Chloronaphthalene	330	330	U	330	U	NA	NA	NA
2-Chlorophenol	330	330	U	330	U	NA	NA	NA
4-Chlorodiphenylether	330	330	U	330	U	NA	NA	NA
Chrysene	330	330	U	330	U	NA	NA	NA
Dibenzo(a,h)anthracene	330	330	U	330	U	NA	NA	NA
Dibenzofuran	330	330	U	330	U	NA	NA	NA
Di-n-butyl phthalate	330	330	U	330	U	NA	NA	NA
1,2-Dichl robenzene	330	330	U	330	U	NA	NA	NA
1,3-Dichlorobenzene	330	330	U	330	U	NA	NA	NA
1,4-Dichlorobenzene	330	330	U	330	U	NA	NA	NA
3,3'-Dichlorobenzidine	660	660	U	660	U	NA	NA	NA
2,4-Dichlorophenol	330	330	U	330	U	NA	NA	NA
Diethyl phthalate	330	330	U	330	U	NA	NA	NA
2,4-Dimethylphenol	330	330	U	330	U	NA	NA	NA
Dimethyl phthalate	330	330	U	330	U	NA	NA	NA
4,6-Dinitro-2-methylphenol	1600	1600	U	1600	U	NA	NA	NA
2,4-Dinitrophenol	1600	1600	U	1600	U	NA	NA	NA
2,4-Dinitrotoluene	330	330	U	330	U	NA	NA	NA
2,6-Dinitrotoluene	330	330	U	330	U	NA	NA	NA
Di-n-octyl phthalate	330	330	U	330	U	NA	NA	NA
Fluoranthene	330	330	U	330	U	NA	NA	NA
Fluorene	330	330	U	330	U	NA	NA	NA
Hexachlorobenzene	330	330	U	330	U	NA	NA	NA
Hexachlorobutadiene	330	330	U	330	U	NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:14 011/016

Client Sample ID: / Job Number & Lab Sample ID: / Sample Date:		W-TR03-18 A96-4114 A6411413 08/26/96		W-TR03-19 A96-4114 A6411416 08/26/96		W-TR03-20 A96-4114 A6411414 08/26/96	W-TR03-21 A96-4114 A6411415 08/26/96	W-TR03-22 A96-4114 A6411402 08/26/96
Analyte (UG/KG)	RL	Result		Result		Result	Result	Result
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS								
Hexachlorocyclopentadiene	330	330	U	330	U	NA	NA	NA
Hexachloroethane	330	330	U	330	U	NA	NA	NA
Indeno(1,2,3-cd)pyrene	330	330	U	330	U	NA	NA	NA
Isophorone	330	330	U	330	U	NA	NA	NA
2-Methylnaphthalene	330	330	U	330	U	NA	NA	NA
2-Methylphenol	330	330	U	330	U	NA	NA	NA
4-Methylphenol	330	330	U	330	U	NA	NA	NA
Naphthalene	330	330	U	330	U	NA	NA	NA
2-Nitroaniline	1600	1600	U	1600	U	NA	NA	NA
3-Nitroaniline	1600	1600	U	1600	U	NA	NA	NA
4-Nitroaniline	1600	1600	U	1600	U	NA	NA	NA
Nitrobenzene	330	330	U	330	U	NA	NA	NA
2-Nitrophenol	330	330	U	330	U	NA	NA	NA
4-Nitrophenol	1600	1600	U	1600	U	NA	NA	NA
N-nitrosodiphenylamine	330	330	U	330	U	NA	NA	NA
N-Nitroso-Di-n-propylamine	330	330	U	330	U	NA	NA	NA
Pentachlorophenol	1600	1600	U	1600	U	NA	NA	NA
Phenanthrene	330	330	U	330	U	NA	NA	NA
Phenol	330	330	U	330	U	NA	NA	NA
Pyrene	330	330	U	330	U	NA	NA	NA
1,2,4-Trichlorobenzene	330	330	U	330	U	NA	NA	NA
2,4,5-Trichlorophenol	800	800	U	800	U	NA	NA	NA
2,4,6-Trichlorophenol	330	330	U	330	U	NA	NA	NA
INTERNAL STANDARDS								
1,4-Dichlorobenzene-D4	50-200	99		102		NA	NA	NA
Naphthalene-D8	50-200	103		108		NA	NA	NA
Acenaphthene-D10	50-200	103		108		NA	NA	NA
Phenanthrene-D10	50-200	109		108		NA	NA	NA
Chrysene-D12	50-200	86		86		NA	NA	NA
Perylene-D12	50-200	96		98		NA	NA	NA
SURROGATES								
Nitrobenzene-D5	23-120	60		56		NA	NA	NA
2-Fluorobiphenyl	30-115	76		71		NA	NA	NA
Terphenyl-D14	18-137	100		99		NA	NA	NA
Phenol-D5	24-113	65		60		NA	NA	NA
2-Fluorophenol	25-121	62		57		NA	NA	NA
2,4,6-Tribromophenol	19-122	81		76		NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:15 012/016

Client Sample ID:		W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13	
Job Number & Lab Sample ID:		A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401	
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	
Analyte (UG/KG)	RL	Result	Result	Result	Result	
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS						
Acenaphthene	330	NA	NA	330 U	NA	
Acenaphthylene	330	NA	NA	330 U	NA	
Anthracene	330	NA	NA	330 U	NA	
Benzo(a)anthracene	330	NA	NA	330 U	NA	
Benzo(b)fluoranthene	330	NA	NA	330 U	NA	
Benzo(k)fluoranthene	330	NA	NA	330 U	NA	
Benzo(ghi)perylene	330	NA	NA	330 U	NA	
Benzo(a)pyrene	330	NA	NA	330 U	NA	
Benzoic acid	1600	NA	NA	1600 U	NA	
Benzyl alcohol	330	NA	NA	330 U	NA	
Bis(2-chloroethoxy) methane	330	NA	NA	330 U	NA	
Bis(2-chloroethyl) ether	330	NA	NA	330 U	NA	
Bis(2-chloroisopropyl) ether	330	NA	NA	330 U	NA	
Bis(2-ethylhexyl) phthalate	330	NA	NA	330 U	NA	
4-Bromophenyl phenyl ether	330	NA	NA	330 U	NA	
Butyl benzyl phthalate	330	NA	NA	330 U	NA	
4-Chloroaniline	330	NA	NA	330 U	NA	
4-Chloro-3-methylphenol	330	NA	NA	330 U	NA	
2-Chloronaphthalene	330	NA	NA	330 U	NA	
2-Chlorophenol	330	NA	NA	330 U	NA	
4-Chlorodiphenylether	330	NA	NA	330 U	NA	
Chrysene	330	NA	NA	330 U	NA	
Dibenzo(a,h)anthracene	330	NA	NA	330 U	NA	
Dibenzofuran	330	NA	NA	330 U	NA	
Di-n-butyl phthalate	330	NA	NA	330 U	NA	
1,2-Dichlorobenzene	330	NA	NA	330 U	NA	
1,3-Dichlorobenzene	330	NA	NA	330 U	NA	
1,4-Dichlorobenzene	330	NA	NA	330 U	NA	
3,3'-Dichlorobenzidine	660	NA	NA	660 U	NA	
2,4-Dichlorophenol	330	NA	NA	330 U	NA	
Diethyl phthalate	330	NA	NA	330 U	NA	
2,4-Dimethylphenol	330	NA	NA	330 U	NA	
Dimethyl phthalate	330	NA	NA	330 U	NA	
4,6-Dinitro-2-methylphenol	1600	NA	NA	1600 U	NA	
2,4-Dinitrophenol	1600	NA	NA	1600 U	NA	
2,4-Dinitrotoluene	330	NA	NA	330 U	NA	
2,6-Dinitrotoluene	330	NA	NA	330 U	NA	
Di-n-octyl phthalate	330	NA	NA	330 U	NA	
Fluoranthene	330	NA	NA	330 U	NA	
Fluorene	330	NA	NA	330 U	NA	
Hexachl robenzene	330	NA	NA	330 U	NA	
Hexachlorobutadiene	330	NA	NA	330 U	NA	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:16 014/016

Client Sample ID:		W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13	
Job Number & Lab Sample ID:		A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401	
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	
Analyte (UG/KG)	RL	Result	Result	Result	Result	
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS						
Hexachlorocyclopentadiene	330	NA	NA	330 U	NA	
Hexachloroethane	330	NA	NA	330 U	NA	
Indeno(1,2,3-cd)pyrene	330	NA	NA	330 U	NA	
Isophorone	330	NA	NA	330 U	NA	
2-Methylnaphthalene	330	NA	NA	330 U	NA	
2-Methylphenol	330	NA	NA	330 U	NA	
4-Methylphenol	330	NA	NA	330 U	NA	
Naphthalene	330	NA	NA	330 U	NA	
2-Nitroaniline	1600	NA	NA	1600 U	NA	
3-Nitroaniline	1600	NA	NA	1600 U	NA	
4-Nitroaniline	1600	NA	NA	1600 U	NA	
Nitrobenzene	330	NA	NA	330 U	NA	
2-Nitrophenol	330	NA	NA	330 U	NA	
4-Nitrophenol	1600	NA	NA	1600 U	NA	
N-nitrosodiphenylamine	330	NA	NA	330 U	NA	
N-Nitroso-Di-n-propylamine	330	NA	NA	330 U	NA	
Pentachlorophenol	1600	NA	NA	1600 U	NA	
Phenanthrene	330	NA	NA	330 U	NA	
Phenol	330	NA	NA	330 U	NA	
Pyrene	330	NA	NA	330 U	NA	
1,2,4-Trichlorobenzene	330	NA	NA	330 U	NA	
2,4,5-Trichlorophenol	800	NA	NA	800 U	NA	
2,4,6-Trichlorophenol	330	NA	NA	330 U	NA	
INTERNAL STANDARDS						
1,4-Dichlorobenzene-D4	50-200	NA	NA	126	NA	
Naphthalene-D8	50-200	NA	NA	128	NA	
Acenaphthene-D10	50-200	NA	NA	136	NA	
Phenanthrene-D10	50-200	NA	NA	129	NA	
Chrysene-D12	50-200	NA	NA	109	NA	
Perylene-D12	50-200	NA	NA	125	NA	
SURROGATES						
Nitrobenzene-D5	23-120	NA	NA	72	NA	
2-Fluorobiphenyl	30-115	NA	NA	77	NA	
Terphenyl-D14	18-137	NA	NA	98	NA	
Phenol-D5	24-113	NA	NA	73	NA	
2-Fluorophenol	25-121	NA	NA	69	NA	
2,4,6-Tribromophenol	19-122	NA	NA	84	NA	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 08:17 ☑015/016

Client Sample ID:		W-TR03-23		W-TR03-24		W-TR03-26		W-TR07-13	
Job Number & Lab Sample ID:		A96-4114 A6411422		A96-4114 A6411423		A96-4114 A6411424		A96-4114 A6411401	
Sample Date:		08/26/96		08/26/96		08/26/96		08/26/96	
Analyte (UG/KG)	RL	Result		Result		Result		Result	
METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS									
Acenaphthene	330	330	U	330	U	NA		330	U
Acenaphthylene	330	330	U	330	U	NA		330	U
Anthracene	330	330	U	330	U	NA		330	U
Benzo(a)anthracene	330	330	U	330	U	NA		330	U
Benzo(b)fluoranthene	330	330	U	330	U	NA		330	U
Benzo(k)fluoranthene	330	330	U	330	U	NA		330	U
Benzo(ghi)perylene	330	330	U	330	U	NA		330	U
Benzo(a)pyrene	330	330	U	330	U	NA		330	U
Chrysene	330	330	U	330	U	NA		330	U
Dibenzo(a,h)anthracene	330	330	U	330	U	NA		330	U
Fluoranthene	330	330	U	330	U	NA		330	U
Fluorene	330	330	U	330	U	NA		330	U
Indeno(1,2,3-cd)pyrene	330	330	U	330	U	NA		330	U
2-Methylnaphthalene	330	330	U	330	U	NA		330	U
Naphthalene	330	330	U	330	U	NA		330	U
Phenanthrene	330	330	U	330	U	NA		330	U
Pyrene	330	330	U	330	U	NA		330	U
INTERNAL STANDARDS									
1,4-Dichlorobenzene-D4	50-200	113		86		NA		99	
Naphthalene-D8	50-200	113		89		NA		105	
Acenaphthene-D10	50-200	120		87		NA		106	
Phenanthrene-D10	50-200	114		85		NA		110	
Chrysene-D12	50-200	97		68		NA		88	
Perylene-D12	50-200	105		74		NA		102	
SURROGATES									
Nitrobenzene-D5	23-120	75		74		NA		56	
2-Fluorobiphenyl	30-115	84		86		NA		72	
Terphenyl-D14	18-137	99		108		NA		99	
Phenol-D5	24-113	73		78		NA		61	
2-Fluorophenol	25-121	69		74		NA		59	
2,4,6-Tribromophenol	19-122	90		87		NA		89	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 09:18 018/018

Client Sample ID:		W-TR03-18	W-TR03-19	W-TR03-20	W-TR03-21	W-TR03-22
Job Number & Lab Sample ID:		A96-4114 A6411413	A96-4114 A6411416	A96-4114 A6411414	A96-4114 A6411415	A96-4114 A6411402
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8270-HSL POLYNUCLEAR AROMATIC HYDROCARBONS						
Acenaphthene	330	NA	NA	330 U	330 U	330 U
Acenaphthylene	330	NA	NA	330 U	330 U	330 U
Anthracene	330	NA	NA	330 U	330 U	330 U
Benzo(a)anthracene	330	NA	NA	330 U	330 U	330 U
Benzo(b)fluoranthene	330	NA	NA	330 U	330 U	330 U
Benzo(k)fluoranthene	330	NA	NA	330 U	330 U	330 U
Benzo(ghi)perylene	330	NA	NA	330 U	330 U	330 U
Benzo(a)pyrene	330	NA	NA	330 U	330 U	330 U
Chrysene	330	NA	NA	330 U	330 U	330 U
Dibenzo(a,h)anthracene	330	NA	NA	330 U	330 U	330 U
Fluoranthene	330	NA	NA	330 U	330 U	330 U
Fluorene	330	NA	NA	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	330	NA	NA	330 U	330 U	330 U
2-Methylnaphthalene	330	NA	NA	330 U	330 U	330 U
Naphthalene	330	NA	NA	330 U	330 U	330 U
Phenanthrene	330	NA	NA	330 U	330 U	330 U
Pyrene	330	NA	NA	330 U	330 U	330 U
INTERNAL STANDARDS						
1,4-Dichlorobenzene-D4	50-200	NA	NA	100	90	105
Naphthalene-D8	50-200	NA	NA	99	89	106
Acenaphthene-D10	50-200	NA	NA	102	85	103
Phenanthrene-D10	50-200	NA	NA	101	88	103
Chrysene-D12	50-200	NA	NA	84	71	84
Perylene-D12	50-200	NA	NA	94	78	99
SURROGATES						
Nitrobenzene-D5	23-120	NA	NA	48	50	55
2-Fluorobiphenyl	30-115	NA	NA	58	70	66
Terphenyl-D14	18-137	NA	NA	102	98	101
Phenol-D5	24-113	NA	NA	45	50	56
2-Fluorophenol	25-121	NA	NA	42	49	56
2,4,6-Tribromophenol	19-122	NA	NA	71	84	76

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 08:16 013/016

Client Sample ID:		W-TR03-D1		W-TR03-D2				
Job Number & Lab Sample ID:		A96-4207 A6420715		A96-4207 A6420714				
Sample Date:		08/28/96		08/28/96				
Analyte (UG/KG)	RL	Result		Result				
METHOD 8080 - POLYCHLORINATED BIPHENYLS								
Aroclor 1016	40	40	U	40	U			
Aroclor 1221	80	80	U	80	U			
Aroclor 1232	40	40	U	40	U			
Aroclor 1242	40	40	U	40	U			
Aroclor 1248	40	40	U	40	U			
Aroclor 1254	40	40	U	40	U			
Aroclor 1260	40	40	U	40	U			
SURROGATES								
Tetrachlor -m-xylene	27-132	41		55				
Decachlorobiphenyl	58-150	46	*	67				

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/04/96 17:07 015/018

Client Sample ID:		W-TR03-03		W-TR03-04		W-TR03-05		W-TR03-06		W-TR03-07	
Job Number & Lab Sample ID:		A96-4114 A6411421		A96-4114 A6411420		A96-4114 A6411403		A96-4114 A6411404		A96-4114 A6411419	
Sample Date:		08/26/96		08/26/96		08/26/96		08/26/96		08/26/96	
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		36	J	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	64		NA		NA		105		74	
Decachlorobiphenyl	58-150	66		NA		NA		103		74	

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

08/29/96 15:35 017/029

Client Sample ID:		W-TR03-03	W-TR03-04	W-TR03-05	W-TR03-06	W-TR03-07
Job Number & Lab Sample ID:		A96-4114 A6411421	A96-4114 A6411420	A96-4114 A6411403	A96-4114 A6411404	A96-4114 A6411419
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8080 - TCL PESTICIDES/PCBS						
SURROGATES						
Tetrachlor -m-xylene	27-132	NA	70	86	NA	NA
Decachlorobiphenyl	58-150	NA	92	111	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:36 018/029

Client Sample ID:		W-TR03-08	W-TR03-09	W-TR03-10	W-TR03-11	W-TR03-12
Job Number & Lab Sample ID:		A96-4114 A6411405	A96-4114 A6411406	A96-4114 A6411407	A96-4114 A6411418	A96-4114 A6411408
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8080 - POLYCHLORINATED BIPHENYLS						
Aroclor 1016	40	NA	NA	40 U	40 U	40 U
Aroclor 1221	80	NA	NA	80 U	80 U	80 U
Aroclor 1232	40	NA	NA	40 U	40 U	40 U
Aroclor 1242	40	NA	NA	40 U	40 U	40 U
Aroclor 1248	40	NA	NA	40 U	40 U	40 U
Aroclor 1254	40	NA	NA	40 U	40 U	40 U
Aroclor 1260	40	NA	NA	40 U	40 U	40 U
SURROGATES						
Tetrachloro-m-xylene	27-132	NA	NA	80	73	60
Decachlorobiphenyl	58-150	NA	NA	82	78	61

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

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:37 019/029

ANALYTICAL RESULTS

Client Sample ID:		W-TR03-08	W-TR03-09	W-TR03-10	W-TR03-11	W-TR03-12
Job Number & Lab Sample ID:		A96-4114 A6411405	A96-4114 A6411406	A96-4114 A6411407	A96-4114 A6411418	A96-4114 A6411408
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8080 - TCL PESTICIDES/PCBS						
SURROGATES						
Tetrachloro-m-xylene	27-132	49	75	NA	NA	NA
Decachlorobiphenyl	58-150	60	94	NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:37 020/029

Client Sample ID:		W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16	W-TR03-17
Job Number & Lab Sample ID:		A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411	A96-4114 A6411412
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
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	82	NA	NA	86	73
Decachlorobiphenyl	58-150	96	NA	NA	90	77

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

08/29/96 15:38 ☎ 021/029

Client Sample ID:		W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16	W-TR03-17
Job Number & Lab Sample ID:		A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411	A96-4114 A6411412
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8080 - TCL PESTICIDES/PCBS						
SURROGATES						
Tetrachloro-m-xylene	27-132	NA	68	72	NA	NA
Decachlorobiphenyl	58-150	NA	85	89	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:39 022/029

Client Sample ID:		W-TR03-18	W-TR03-19	W-TR03-20	W-TR03-21	W-TR03-22
Job Number & Lab Sample ID:		A96-4114 A6411413	A96-4114 A6411416	A96-4114 A6411414	A96-4114 A6411415	A96-4114 A6411402
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte (UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8080 - POLYCHLORINATED BIPHENYLS						
Aroclor 1016	40	NA	NA	40 U	40 U	40 U
Aroclor 1221	80	NA	NA	80 U	80 U	80 U
Aroclor 1232	40	NA	NA	40 U	40 U	40 U
Aroclor 1242	40	NA	NA	40 U	40 U	40 U
Aroclor 1248	40	NA	NA	40 U	40 U	40 U
Aroclor 1254	40	NA	NA	40 U	40 U	40 U
Aroclor 1260	40	NA	NA	40 U	40 U	40 U
SURROGATES						
Tetrachloro-m-xylene	27-132	NA	NA	82	52	75
Decachlorobiphenyl	58-150	NA	NA	90	48 *	74

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

* Indicates Result is Outside QC Limits
NA = N t Applicable

08/29/96 15:40 023/029

Client Sample ID:			W-TR03-18	W-TR03-19	W-TR03-20	W-TR03-21	W-TR03-22
Job Number & Lab Sample ID:			A96-4114 A6411413	A96-4114 A6411416	A96-4114 A6411414	A96-4114 A6411415	A96-4114 A6411402
Sample Date:			08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	(UG/KG)	RL	Result	Result	Result	Result	Result
METHOD 8080 - TCL PESTICIDES/PCBS							
SURROGATES							
Tetrachloro-m-xylene		27-132	81	79	NA	NA	NA
Decachlorobiphenyl		58-150	105	104	NA	NA	NA

* Indicat s Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:40 024/029

Client Sample ID:		W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13	
Job Number & Lab Sample ID:		A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401	
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	
Analyte (UG/KG)	RL	Result	Result	Result	Result	
METHOD 8080 - POLYCHLORINATED BIPHENYLS						
Aroclor 1016	40	40 U	40 U	NA	40 U	
Aroclor 1221	80	80 U	80 U	NA	80 U	
Aroclor 1232	40	40 U	40 U	NA	40 U	
Aroclor 1242	40	40 U	40 U	NA	40 U	
Aroclor 1248	40	40 U	40 U	NA	40 U	
Aroclor 1254	40	40 U	40 U	NA	40 U	
Aroclor 1260	40	40 U	40 U	NA	40 U	
SURROGATES						
Tetrachloro-m-xylene	27-132	87	90	NA	78	
Decachl robiphenyl	58-150	90	92	NA	84	

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

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:41 025/029

Client Sample ID:		W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13	
Job Number & Lab Sample ID:		A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401	
Sample Date:		08/26/96	08/26/96	08/26/96	08/26/96	
Analyte (UG/KG)	RL	Result	Result	Result	Result	
METHOD 8080 - TCL PESTICIDES/PCBS						
SURROGATES						
Tetrachloro-m-xylene	27-132	NA	NA	90	NA	
Decachlorobiphenyl	58-150	NA	NA	119	NA	

* Indicates Result is Outside QC Limits
NA = Not Applicable

08/29/96 15:42 026/029

		Client Sample ID:	W-TR01-06	W-TR01-07	W-TR01-08	W-TR01-09	W-TR03-01
		Job Number & Lab Sample ID:	A96-4207 A6420705	A96-4207 A6420706	A96-4207 A6420707	A96-4207 A6420708	A96-4207 A6420715
		Sample Date:	08/29/96	08/29/96	08/29/96	08/29/96	08/28/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
TOTAL METALS							
Thallium - Total	MG/KG	0.36	1.3	1.0	1.3	1.3	0.83

* Indicates Result is Outside QC Limits
NA = N t Applicable

09/09/96 16:18 003/008

ANALYTICAL RESULTS

Client Sample ID:			W-TR03-02	W-TR07-12			
Job Number & Lab Sample ID:			A96-4207 A6420714	A96-4207 A6420713			
Sample Date:			08/28/96	08/26/96			
Analyte	UNITS OF MEASURE	RL	Result	Result			
TOTAL METALS							
Thallium - Total	MG/KG	0.36	2.4	NA			
Manganese - Total	MG/KG	0.036	NA	3740			

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/09/96 16:19 004/009

ANALYTICAL RESULTS

Client Sample ID:			W-TR03-03	W-TR03-06	W-TR03-07	W-TR03-10	W-TR03-11
Job Number & Lab Sample ID:			A96-4114 A6411421	A96-4114 A6411404	A96-4114 A6411419	A96-4114 A6411407	A96-4114 A6411418
Sample Date:			08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
TOTAL METALS							
Thallium - Total	MG/KG	0.36	1.2	0.91	0.75	0.68	1.0

* Indicates Result is Outside QC Limits
NA = Not Applicable

Date: 08/29/96
Time: 14:10:10

ANALYTICAL RESULTS

Rept: AN0353
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		Client Sample ID:	W-TR03-12	W-TR03-13	W-TR03-16	W-TR03-17	W-TR03-20
		Job Number & Lab Sampl ID:	A96-4114 A6411408	A96-4114 A6411409	A96-4114 A6411411	A96-4114 A6411412	A96-4114 A6411414
		Sample Date:	08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
TOTAL METALS							
Thallium - Total	MG/KG	0.36	1.0	1.0	0.76	0.74	0.84

* Indicates Result is Outside QC Limits
NA = Not Applicable

Date: 08/29/96
Time: 14:10:11

ANALYTICAL RESULTS

Rept: AN0353
Page: 3

		Client Sample ID:	W-TR03-21	W-TR03-22	W-TR03-23	W-TR03-24	W-TR07-13
		Job Number & Lab Sample ID:	A96-4114 A6411415	A96-4114 A6411402	A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411401
		Sample Date:	08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
TOTAL METALS							
Thallium - Total	MG/KG	0.36	1.7	0.80	1.0	1.6	1.4

* Indicat s Result is Outside QC Limits
NA = Not Applicable

ANALYTICAL RESULTS

Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
Client Sample ID:			W-TR03-03	W-TR03-04	W-TR03-05	W-TR03-06	W-TR03-07
Job Number & Lab Sample ID:			A96-4114 A6411421	A96-4114 A6411420	A96-4114 A6411403	A96-4114 A6411404	A96-4114 A6411419
Sample Date:			08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
TOTAL METALS							
Thallium - Total	MG/KG	0.36	1.2	NA	NA	0.91	0.75
TOTAL HSL METALS							
Aluminum - Total	MG/KG	0.77	NA	9210	7620	NA	NA
Antimony - Total	MG/KG	0.57	NA	0.82	1.2	NA	NA
Arsenic - Total	MG/KG	0.28	NA	0.33 U	1.3	NA	NA
Barium - Total	MG/KG	0.024	NA	103	90.8	NA	NA
Beryllium - Total	MG/KG	0.010	NA	2.3	1.3	NA	NA
Cadmium - Total	MG/KG	0.021	NA	0.025 U	0.024 U	NA	NA
Calcium - Total	MG/KG	0.54	NA	4050	1900	NA	NA
Chromium - Total	MG/KG	0.26	NA	15.7	12.9	NA	NA
Cobalt - Total	MG/KG	0.12	NA	11.2	11.8	NA	NA
Copper - Total	MG/KG	0.087	NA	20.4	27.6	NA	NA
Iron - Total	MG/KG	2.4	NA	17400	17500	NA	NA
Lead - Total	MG/KG	0.13	NA	9.7	10.2	NA	NA
Magnesium - Total	MG/KG	0.87	NA	6410	3190	NA	NA
Manganese - T tal	MG/KG	0.036	NA	214	710	NA	NA
Nickel - Total	MG/KG	0.25	NA	23.9	13.4	NA	NA
Potassium - Total	MG/KG	9.3	NA	2870	1430	NA	NA
Selenium - Total	MG/KG	0.28	NA	0.66	1.3	NA	NA
Silver - Total	MG/KG	0.25	NA	0.29 U	0.29 U	NA	NA
Sodium - Total	MG/KG	56.8	NA	141	133	NA	NA
Thallium - Total	MG/KG	0.36	NA	0.80	2.1	NA	NA
Vanadium - Total	MG/KG	0.087	NA	13.7	16.1	NA	NA
Zinc - Total	MG/KG	0.024	NA	96.8	46.5	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/05/96 10:25 002/013

ANALYTICAL RESULTS

		Client Sample ID:	W-TR03-08	W-TR03-09	W-TR03-10	W-TR03-11	W-TR03-12
		Job Number & Lab Sample ID:	A96-4114 A6411405	A96-4114 A6411406	A96-4114 A6411407	A96-4114 A6411418	A96-4114 A6411408
		Sample Date:	08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	R sult
TOTAL METALS							
Thallium - Total	MG/KG	0.36	NA	NA	0.68	1.0	1.0
TOTAL HSL METALS							
Aluminum - Total	MG/KG	0.77	7290	8820	NA	NA	NA
Antimony - Total	MG/KG	0.57	1.0	0.65 U	NA	NA	NA
Arsenic - Total	MG/KG	0.28	2.7	3.1	NA	NA	NA
Barium - Total	MG/KG	0.024	54.5	102	NA	NA	NA
Beryllium - Total	MG/KG	0.010	0.65	1.2	NA	NA	NA
Cadmium - Total	MG/KG	0.021	0.024 U	0.024 U	NA	NA	NA
Calcium - Total	MG/KG	0.54	1220	1170	NA	NA	NA
Chromium - Total	MG/KG	0.26	13.2	16.9	NA	NA	NA
Cobalt - Total	MG/KG	0.12	5.9	5.9	NA	NA	NA
Copper - Total	MG/KG	0.087	17.7	12.6	NA	NA	NA
Iron - Total	MG/KG	2.4	14900	17000	NA	NA	NA
Lead - Total	MG/KG	0.13	10.4	7.6	NA	NA	NA
Magnesium - Total	MG/KG	0.87	1760	2420	NA	NA	NA
Manganese - Total	MG/KG	0.036	275	167	NA	NA	NA
Nickel - Total	MG/KG	0.25	8.0	11.4	NA	NA	NA
Potassium - Total	MG/KG	9.3	479	535	NA	NA	NA
Selenium - Total	MG/KG	0.28	0.93	0.79	NA	NA	NA
Silver - Total	MG/KG	0.25	0.29 U	0.28 U	NA	NA	NA
Sodium - Total	MG/KG	56.8	118	144	NA	NA	NA
Thallium - Total	MG/KG	0.36	1.0	0.77	NA	NA	NA
Vanadium - Total	MG/KG	0.087	22.6	27.1	NA	NA	NA
Zinc - Total	MG/KG	0.024	59.9	37.0	NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

Client Sample ID:			W-TR03-13	W-TR03-14	W-TR03-15	W-TR03-16	W-TR03-17
Job Number & Lab Sample ID:			A96-4114 A6411409	A96-4114 A6411410	A96-4114 A6411417	A96-4114 A6411411	A96-4114 A6411412
Sample Date:			08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
TOTAL METALS							
Thallium - T tal	MG/KG	0.36	1.0	NA	NA	0.76	0.74
TOTAL HSL METALS							
Aluminum - T tal	MG/KG	0.77	NA	7420	7190	NA	NA
Antimony - Total	MG/KG	0.57	NA	0.72	0.67 U	NA	NA
Arsenic - Total	MG/KG	0.28	NA	0.33 U	2.9	NA	NA
Barium - Total	MG/KG	0.024	NA	116	97.2	NA	NA
Beryllium - Total	MG/KG	0.010	NA	2.1	1.3	NA	NA
Cadmium - Total	MG/KG	0.021	NA	0.025 U	0.025 U	NA	NA
Calcium - Total	MG/KG	0.54	NA	2210	1250	NA	NA
Chromium - Total	MG/KG	0.26	NA	13.4	17.1	NA	NA
Cobalt - Total	MG/KG	0.12	NA	12.5	6.2	NA	NA
Copper - Total	MG/KG	0.087	NA	4.8	10	NA	NA
Iron - Total	MG/KG	2.4	NA	14900	18400	NA	NA
Lead - Total	MG/KG	0.13	NA	12.0	7.5	NA	NA
Magnesium - T tal	MG/KG	0.87	NA	3960	2440	NA	NA
Manganese - Total	MG/KG	0.036	NA	271	213	NA	NA
Nickel - Total	MG/KG	0.25	NA	16.9	12.1	NA	NA
Potassium - T tal	MG/KG	9.3	NA	2830	577	NA	NA
Selenium - Total	MG/KG	0.28	NA	0.77	1.1	NA	NA
Silver - Total	MG/KG	0.25	NA	0.29 U	0.29 U	NA	NA
Sodium - Total	MG/KG	56.8	NA	163	110	NA	NA
Thallium - Total	MG/KG	0.36	NA	1.3	1.2	NA	NA
Vanadium - Total	MG/KG	0.087	NA	12.1	31.5	NA	NA
Zinc - Total	MG/KG	0.024	NA	56.0	46.6	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/05/96 10:26 004/013

		Client Sample ID:	W-TR03-18	W-TR03-19	W-TR03-20	W-TR03-21	W-TR03-22
		Job Number & Lab Sample ID:	A96-4114 A6411413	A96-4114 A6411416	A96-4114 A6411414	A96-4114 A6411415	A96-4114 A6411402
		Sample Date:	08/26/96	08/26/96	08/26/96	08/26/96	08/26/96
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	Result
TOTAL METALS							
Thallium - Total	MG/KG	0.36	NA	NA	0.84	1.7	0.80
TOTAL HSL METALS							
Aluminum - Total	MG/KG	0.77	4950	7410	NA	NA	NA
Antimony - Total	MG/KG	0.57	1.2	0.66 U	NA	NA	NA
Arsenic - Total	MG/KG	0.28	1.3	2.6	NA	NA	NA
Barium - Total	MG/KG	0.024	179	62.7	NA	NA	NA
Beryllium - Total	MG/KG	0.010	1.3	0.73	NA	NA	NA
Cadmium - Total	MG/KG	0.021	0.026 U	0.024 U	NA	NA	NA
Calcium - Total	MG/KG	0.54	2510	846	NA	NA	NA
Chromium - Total	MG/KG	0.26	8.2	16.2	NA	NA	NA
Cobalt - Total	MG/KG	0.12	11.1	8.7	NA	NA	NA
Copper - Total	MG/KG	0.087	7.8	10.7	NA	NA	NA
Iron - Total	MG/KG	2.4	11900	17100	NA	NA	NA
Lead - Total	MG/KG	0.13	7.6	7.4	NA	NA	NA
Magnesium - Total	MG/KG	0.87	1060	2490	NA	NA	NA
Manganese - Total	MG/KG	0.036	3010	241	NA	NA	NA
Nickel - Total	MG/KG	0.25	11.3	10.6	NA	NA	NA
Potassium - Total	MG/KG	9.3	262	579	NA	NA	NA
Selenium - Total	MG/KG	0.28	1.8	0.86	NA	NA	NA
Silver - Total	MG/KG	0.25	0.30 U	0.29 U	NA	NA	NA
Sodium - Total	MG/KG	56.8	180	66.0 U	NA	NA	NA
Thallium - Total	MG/KG	0.36	3.3	1.0	NA	NA	NA
Vanadium - Total	MG/KG	0.087	16.0	29.6	NA	NA	NA
Zinc - Total	MG/KG	0.024	24.0	33.0	NA	NA	NA

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/05/96 10:26 005/013

Client Sample ID:			W-TR03-23	W-TR03-24	W-TR03-26	W-TR07-13	
Job Number & Lab Sample ID:			A96-4114 A6411422	A96-4114 A6411423	A96-4114 A6411424	A96-4114 A6411401	
Sample Date:			08/26/96	08/26/96	08/26/96	08/26/96	
Analyte	UNITS OF MEASURE	RL	Result	Result	Result	Result	
TOTAL METALS							
Thallium - T tal	MG/KG	0.36	1.0	1.6	NA	1.4	
TOTAL HSL METALS							
Aluminum - Total	MG/KG	0.77	NA	NA	9910	NA	
Antimony - Total	MG/KG	0.57	NA	NA	0.92	NA	
Arsenic - Total	MG/KG	0.28	NA	NA	0.36	NA	
Barium - Total	MG/KG	0.024	NA	NA	101	NA	
Beryllium - Total	MG/KG	0.010	NA	NA	2.2	NA	
Cadmium - T tal	MG/KG	0.021	NA	NA	0.024 U	NA	
Calcium - Total	MG/KG	0.54	NA	NA	4000	NA	
Chromium - Total	MG/KG	0.26	NA	NA	16.2	NA	
Cobalt - Total	MG/KG	0.12	NA	NA	11.8	NA	
Copper - Total	MG/KG	0.087	NA	NA	20.6	NA	
Iron - Total	MG/KG	2.4	NA	NA	18500	NA	
Lead - Total	MG/KG	0.13	NA	NA	11.0	NA	
Magnesium - Total	MG/KG	0.87	NA	NA	6320	NA	
Manganese - Total	MG/KG	0.036	NA	NA	197	NA	
Nickel - Total	MG/KG	0.25	NA	NA	22.4	NA	
Potassium - Total	MG/KG	9.3	NA	NA	3110	NA	
Selenium - Total	MG/KG	0.28	NA	NA	1.2	NA	
Silver - Total	MG/KG	0.25	NA	NA	0.29 U	NA	
Sodium - Total	MG/KG	56.8	NA	NA	131	NA	
Thallium - Total	MG/KG	0.36	NA	NA	1.2	NA	
Vanadium - Total	MG/KG	0.087	NA	NA	15.0	NA	
Zinc - Total	MG/KG	0.024	NA	NA	88.6	NA	

* Indicates Result is Outside QC Limits
NA = Not Applicable

09/05/96 10:27 006/013