TETRA TECH NUS

PHIL- 21198

TO:	RUSS TURNER	DATE:	JULY 10, 2007
FROM:	MEGAN RITCHIE	COPIES:	FILE

SUBJECT: **ORGANIC DATA VALIDATION – VOC, SVOC, AND PESTICIDE/PCB**
NAS JRB WILLOW GROVE SITE 3, WILLOW GROVE, PENNSYLVANIA
SDG NO. C7E010209

SAMPLES: **1/Aqueous/**

03-TB-01

3/Solid/

03TP05-0506-01 03TP05-0910-02 03TP05-0102-03

OVERVIEW

The sample set for the NAS JRB Willow Grove Site 3 Test Pits – Willow Grove, PA, SDG C7E010209 consists of 3 solid environmental samples (designated 03TP05-), and 1 field quality control (QC) blank (designated 03-TB-). No samples were designated for matrix spike/matrix spike duplicate (MS/MSD) analyses. One field duplicate pair (03TP05-0102-03/03TP05-0910-02) was included in this sample set. All samples except the trip blank were analyzed for select Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), pesticides, and Polychlorinated Biphenyls (PCBs). The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on April 30, 2007 and analyzed by Severn Trent Laboratories (STL) of Pittsburgh, Pennsylvania.

All analyses were conducted using EPA SW-846 Methods. VOCs were analyzed by 8260B, SVOCs by 8270C, and pesticides by 8081A, and PCBs by 8082.

SUMMARY

All analytes were successfully analyzed in all samples. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, GC/MS tuning and calibration data, laboratory and field quality control blank results, system monitoring compound recoveries, matrix spike/matrix spike duplicate results, laboratory control spike/spike duplicate results, internal standards performance, compound identification, compound quantitation, and field duplicate results.

MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the laboratory blanks at the maximum concentration indicated:

Compound	Maximum Concentration	Action Level
Methylene Chloride	1.6 µg/Kg	16 µg/Kg

Compound	Maximum Concentration	Action Level
4,4'-DDD	0.28 µg/Kg	1.4 µg/Kg

Samples affected: The soil action levels apply to all soil samples.

Adjustments were made for the samples aliquot size, percent moisture, and dilution factors. Results reported at concentrations within the action level are qualified (B) and are considered to be false positives (artifacts of blank contamination). No qualifications were made for 4,4'-DDD because the positive results were greater than the action level.

- The percent difference (%D) between the detected concentrations on two columns exceeded the QC criteria of ±25% for several pesticide compounds in all samples. These compounds were qualified as estimated (J).
- The percent difference (%D) between the detected concentrations on two columns exceeded the QC criteria of ±25% for Aroclor-1254 in sample 03TP05-0102-03. This result was qualified as estimated (J).
- Positive results at concentrations less than the reporting limits (RLs) were qualified as estimated (J).

Not s

Volatiles

The continuing calibration percent difference (%D) for 2-hexanone exceeded the QC criteria of 25%. No qualifications were made because there were no positive detections of 2-hexanone in the associated samples.

Recoveries for acetone and 2-hexanone exceeded the upper QC limits in the aqueous LCS. No qualifications were made because there were no detections of acetone or 2-hexanone in the associated sample.

Semivolatiles

The Relative Standard Deviation (RSD) for benzaldehyde and 2,4-dinitrophenol exceeded the 30% criteria in the initial calibration. No qualifications were made because there were no positive detections of these compounds.

Pesticides

The MS/MSD recoveries for endosulfan sulfate were below the lower QC limit. No action is taken on MS/MSD data alone.

EXECUTIVE SUMMARY

Laboratory Performance: Methylene chloride and 4,4'-DDD were detected in the laboratory method blanks. One VOC compound exceeded the continuing calibration %D criteria. Two SVOC compound exceeded the initial calibration RSD criteria. Two compounds exceeded QC criteria in the aqueous LCS.

Other Factors Affecting Data Quality: The MS/MSD recoveries for one pesticide compound were below QC criteria. The detected pesticide concentrations between two columns exceeded QC criteria for several compounds in all samples. The detected PCB concentration between two columns exceeded the QC criteria for one compound in one sample.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Review", as amended for use within EPA Region 3 (9/94).

The text of this report has been formatted to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Functional Guidelines and the Quality Assurance Project Plan (QAPjP)."

Megan N. Ritchie

Megan N. Ritchie
Chemist

Russell Sloboda

Tetra Tech NUS, Inc.
Russell Sloboda
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Laboratory Analytical Results
3. Appendix C – Support Documentation

APPENDIX A

Qualified Analytical Results

PROJ_NO: 2192

SDG: C7E010209 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP05-0102-03	nsample	03TP05-0102-03	nsample	03TP05-0506-01
samp_date	4/30/2007	samp_date	4/30/2007	samp_date	4/30/2007
lab_id	C7E010209003	lab_id	C7E010209003	lab_id	C7E010209001
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	80.0	Pct_Solids	80.0	Pct_Solids	77.0
DUP_OF:	03TP05-0910-02	DUP_OF:	03TP05-0910-02	DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.3	U	
1,1,2,2-TETRACHLOROETHANE	5.3	U	
1,1,2-TRICHLOROETHANE	5.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.3	U	
1,1-DICHLOROETHANE	5.3	U	
1,1-DICHLOROETHENE	5.3	U	
1,2,3-TRICHLOROBENZENE	5.3	U	
1,2,4-TRICHLOROBENZENE	5.3	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.3	U	
1,2-DIBROMOETHANE	5.3	U	
1,2-DICHLOROBENZENE	5.3	U	
1,2-DICHLOROETHANE	5.3	U	
1,2-DICHLOROPROPANE	5.3	U	
1,3-DICHLOROBENZENE	5.3	U	
1,4-DICHLOROBENZENE	5.3	U	
2-BUTANONE	5.3	U	
2-HEXANONE	5.3	U	
4-METHYL-2-PENTANONE	5.3	U	
ACETONE	21	U	
BENZENE	5.3	U	
BROMOCHLOROMETHANE	5.3	U	
BROMODICHLOROMETHANE	5.3	U	
BROMOFORM	5.3	U	
BROMOMETHANE	5.3	U	
CARBON DISULFIDE	5.3	U	
CARBON TETRACHLORIDE	5.3	U	
CHLOROBENZENE	5.3	U	
CHLORODIBROMOMETHANE	5.3	U	
CHLOROETHANE	5.3	U	
CHLOROFORM	5.3	U	
CHLOROMETHANE	5.3	U	
CIS-1,2-DICHLOROETHENE	5.3	U	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.3	U	
CYCLOHEXANE	5.3	U	
DICHLORODIFLUOROMETHANE	5.3	U	
ETHYLBENZENE	5.3	U	
ISOPROPYLBENZENE	5.3	U	
M+P-XYLENES	11	U	
METHYL ACETATE	5.3	U	
METHYL CYCLOHEXANE	5.3	U	
METHYL TERT-BUTYL ETHER	5.3	U	
METHYLENE CHLORIDE	1.6	B	A
O-XYLENE	5.3	U	
STYRENE	5.3	U	
TETRACHLOROETHENE	5.3	U	
TOLUENE	5.3	U	
TRANS-1,2-DICHLOROETHENE	5.3	U	
TRANS-1,3-DICHLOROPROPENE	5.3	U	
TRICHLOROETHENE	5.3	U	
TRICHLOROFLUOROMETHANE	5.3	U	
VINYL CHLORIDE	5.3	U	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	7.1	U	
1,1,2,2-TETRACHLOROETHANE	7.1	U	
1,1,2-TRICHLOROETHANE	7.1	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	7.1	U	
1,1-DICHLOROETHANE	7.1	U	
1,1-DICHLOROETHENE	7.1	U	
1,2,3-TRICHLOROBENZENE	7.1	U	
1,2,4-TRICHLOROBENZENE	7.1	U	
1,2-DIBROMO-3-CHLOROPROPANE	7.1	U	
1,2-DIBROMOETHANE	7.1	U	
1,2-DICHLOROBENZENE	7.1	U	
1,2-DICHLOROETHANE	7.1	U	
1,2-DICHLOROPROPANE	7.1	U	
1,3-DICHLOROBENZENE	7.1	U	
1,4-DICHLOROBENZENE	7.1	U	
2-BUTANONE	7.1	U	
2-HEXANONE	7.1	U	
4-METHYL-2-PENTANONE	7.1	U	
ACETONE	28	U	
BENZENE	7.1	U	
BROMOCHLOROMETHANE	7.1	U	
BROMODICHLOROMETHANE	7.1	U	
BROMOFORM	7.1	U	
BROMOMETHANE	7.1	U	
CARBON DISULFIDE	7.1	U	
CARBON TETRACHLORIDE	7.1	U	
CHLOROBENZENE	7.1	U	
CHLORODIBROMOMETHANE	7.1	U	
CHLOROETHANE	7.1	U	
CHLOROFORM	7.1	U	
CHLOROMETHANE	7.1	U	
CIS-1,2-DICHLOROETHENE	7.1	U	

PROJ_NO: 2192

SDG: C7E010209 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP05-0506-01
samp_date	4/30/2007
lab_id	C7E010209001
qc_type	NM
units	UG/KG
Pct_Solids	77.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	7.1	U	
CYCLOHEXANE	7.1	U	
DICHLORODIFLUOROMETHANE	7.1	U	
ETHYLBENZENE	7.1	U	
ISOPROPYLBENZENE	7.1	U	
M+P-XYLENES	14	U	
METHYL ACETATE	7.1	U	
METHYL CYCLOHEXANE	7.1	U	
METHYL TERT-BUTYL ETHER	7.1	U	
METHYLENE CHLORIDE	5.9	B	A
O-XYLENE	7.1	U	
STYRENE	7.1	U	
TETRACHLOROETHENE	7.1	U	
TOLUENE	7.1	U	
TRANS-1,2-DICHLOROETHENE	7.1	U	
TRANS-1,3-DICHLOROPROPENE	7.1	U	
TRICHLOROETHENE	7.1	U	
TRICHLOROFLUOROMETHANE	7.1	U	
VINYL CHLORIDE	7.1	U	

nsample	03TP05-0910-02
samp_date	4/30/2007
lab_id	C7E010209002
qc_type	NM
units	UG/KG
Pct_Solids	81.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.3	U	
1,1,2,2-TETRACHLOROETHANE	5.3	U	
1,1,2-TRICHLOROETHANE	5.3	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.3	U	
1,1-DICHLOROETHANE	5.3	U	
1,1-DICHLOROETHENE	5.3	U	
1,2,3-TRICHLOROBENZENE	5.3	U	
1,2,4-TRICHLOROBENZENE	5.3	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.3	U	
1,2-DIBROMOETHANE	5.3	U	
1,2-DICHLOROBENZENE	5.3	U	
1,2-DICHLOROETHANE	5.3	U	
1,2-DICHLOROPROPANE	5.3	U	
1,3-DICHLOROBENZENE	5.3	U	
1,4-DICHLOROBENZENE	5.3	U	
2-BUTANONE	5.3	U	
2-HEXANONE	5.3	U	
4-METHYL-2-PENTANONE	5.3	U	
ACETONE	9.5	J	P
BENZENE	5.3	U	
BROMOCHLOROMETHANE	5.3	U	
BROMODICHLOROMETHANE	5.3	U	
BROMOFORM	5.3	U	
BROMOMETHANE	5.3	U	
CARBON DISULFIDE	5.3	U	
CARBON TETRACHLORIDE	5.3	U	
CHLOROBENZENE	5.3	U	
CHLORODIBROMOMETHANE	5.3	U	
CHLOROETHANE	5.3	U	
CHLOROFORM	5.3	U	
CHLOROMETHANE	5.3	U	
CIS-1,2-DICHLOROETHENE	5.3	U	

nsample	03TP05-0910-02
samp_date	4/30/2007
lab_id	C7E010209002
qc_type	NM
units	UG/KG
Pct_Solids	81.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.3	U	
CYCLOHEXANE	5.3	U	
DICHLORODIFLUOROMETHANE	5.3	U	
ETHYLBENZENE	5.3	U	
ISOPROPYLBENZENE	5.3	U	
M+P-XYLENES	11	U	
METHYL ACETATE	5.3	U	
METHYL CYCLOHEXANE	5.3	U	
METHYL TERT-BUTYL ETHER	5.3	U	
METHYLENE CHLORIDE	2.4	B	A
O-XYLENE	5.3	U	
STYRENE	5.3	U	
TETRACHLOROETHENE	5.3	U	
TOLUENE	5.3	U	
TRANS-1,2-DICHLOROETHENE	5.3	U	
TRANS-1,3-DICHLOROPROPENE	5.3	U	
TRICHLOROETHENE	5.3	U	
TRICHLOROFLUOROMETHANE	5.3	U	
VINYL CHLORIDE	5.3	U	

PROJ_NO: 2192

SDG: C7E010209 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP05-0102-03	nsample	03TP05-0102-03	nsample	03TP05-0102-03
samp_date	4/30/2007	samp_date	4/30/2007	samp_date	4/30/2007
lab_id	C7E010209003	lab_id	C7E010209003	lab_id	C7E010209003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	80.0	Pct_Solids	80.0	Pct_Solids	80.0
DUP_OF:	03TP05-0910-02	DUP_OF:	03TP05-0910-02	DUP_OF:	03TP05-0910-02

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	820	U	
1,2,4,5-TETRACHLOROBENZENE	820	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	820	U	
2,3,4,6-TETRACHLOROPHENOL	820	U	
2,4,5-TRICHLOROPHENOL	820	U	
2,4,6-TRICHLOROPHENOL	820	U	
2,4-DICHLOROPHENOL	820	U	
2,4-DIMETHYLPHENOL	820	U	
2,4-DINITROPHENOL	4000	U	
2,4-DINITROTOLUENE	820	U	
2,6-DINITROTOLUENE	820	U	
2-CHLORONAPHTHALENE	820	U	
2-CHLOROPHENOL	820	U	
2-METHYLNAPHTHALENE	820	U	
2-METHYLPHENOL	820	U	
2-NITROANILINE	4000	U	
2-NITROPHENOL	820	U	
3,3'-DICHLOROBENZIDINE	4000	U	
3-NITROANILINE	4000	U	
4,6-DINITRO-2-METHYLPHENOL	4000	U	
4-BROMOPHENYL PHENYL ETHER	820	U	
4-CHLORO-3-METHYLPHENOL	820	U	
4-CHLOROANILINE	820	U	
4-CHLOROPHENYL PHENYL ETHER	820	U	
4-METHYLPHENOL	820	U	
4-NITROANILINE	4000	U	
4-NITROPHENOL	4000	U	
ACENAPHTHENE	820	U	
ACENAPHTHYLENE	820	U	
ACETOPHENONE	820	U	
ANTHRACENE	820	U	
ATRAZINE	820	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	820	U	
BENZO(A)ANTHRACENE	820	U	
BENZO(A)PYRENE	820	U	
BENZO(B)FLUORANTHENE	820	U	
BENZO(G,H,I)PERYLENE	820	U	
BENZO(K)FLUORANTHENE	820	U	
BIS(2-CHLOROETHOXY)METHANE	820	U	
BIS(2-CHLOROETHYL)ETHER	820	U	
BIS(2-ETHYLHEXYL)PHTHALATE	820	U	
BUTYL BENZYL PHTHALATE	820	U	
CAPROLACTAM	820	U	
CARBAZOLE	820	U	
CHRYSENE	820	U	
DIBENZO(A,H)ANTHRACENE	820	U	
DIBENZOFURAN	820	U	
DIETHYL PHTHALATE	820	U	
DIMETHYL PHTHALATE	820	U	
DI-N-BUTYL PHTHALATE	820	U	
DI-N-OCTYL PHTHALATE	820	U	
FLUORANTHENE	820	U	
FLUORENE	820	U	
HEXACHLOROBENZENE	820	U	
HEXACHLOROBUTADIENE	820	U	
HEXACHLOROCYCLOPENTADIENE	4000	U	
HEXACHLOROETHANE	820	U	
INDENO(1,2,3-CD)PYRENE	820	U	
ISOPHORONE	820	U	
NAPHTHALENE	820	U	
NITROBENZENE	820	U	
N-NITROSO-DI-N-PROPYLAMINE	820	U	
N-NITROSODIPHENYLAMINE	820	U	
PENTACHLOROPHENOL	4000	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	820	U	
PHENOL	820	U	
PYRENE	820	U	

PROJ_NO: 2192

SDG: C7E010209 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP05-0506-01
samp_date	4/30/2007
lab_id	C7E010209001
qc_type	NM
units	UG/KG
Pct_Solids	77.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	860	U	
1,2,4,5-TETRACHLOROBENZENE	860	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	860	U	
2,3,4,6-TETRACHLOROPHENOL	860	U	
2,4,5-TRICHLOROPHENOL	860	U	
2,4,6-TRICHLOROPHENOL	860	U	
2,4-DICHLOROPHENOL	860	U	
2,4-DIMETHYLPHENOL	860	U	
2,4-DINITROPHENOL	4200	U	
2,4-DINITROTOLUENE	860	U	
2,6-DINITROTOLUENE	860	U	
2-CHLORONAPHTHALENE	860	U	
2-CHLOROPHENOL	860	U	
2-METHYLNAPHTHALENE	860	U	
2-METHYLPHENOL	860	U	
2-NITROANILINE	4200	U	
2-NITROPHENOL	860	U	
3,3'-DICHLOROBENZIDINE	4200	U	
3-NITROANILINE	4200	U	
4,6-DINITRO-2-METHYLPHENOL	4200	U	
4-BROMOPHENYL PHENYL ETHER	860	U	
4-CHLORO-3-METHYLPHENOL	860	U	
4-CHLOROANILINE	860	U	
4-CHLOROPHENYL PHENYL ETHER	860	U	
4-METHYLPHENOL	860	U	
4-NITROANILINE	4200	U	
4-NITROPHENOL	4200	U	
ACENAPHTHENE	860	U	
ACENAPHTHYLENE	860	U	
ACETOPHENONE	860	U	
ANTHRACENE	860	U	
ATRAZINE	860	U	

nsample	03TP05-0506-01
samp_date	4/30/2007
lab_id	C7E010209001
qc_type	NM
units	UG/KG
Pct_Solids	77.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	860	U	
BENZO(A)ANTHRACENE	860	U	
BENZO(A)PYRENE	860	U	
BENZO(B)FLUORANTHENE	860	U	
BENZO(G,H,I)PERYLENE	860	U	
BENZO(K)FLUORANTHENE	860	U	
BIS(2-CHLOROETHOXY)METHANE	860	U	
BIS(2-CHLOROETHYL)ETHER	860	U	
BIS(2-ETHYLHEXYL)PHTHALATE	860	U	
BUTYL BENZYL PHTHALATE	860	U	
CAPROLACTAM	860	U	
CARBAZOLE	860	U	
CHRYSENE	860	U	
DIBENZO(A,H)ANTHRACENE	860	U	
DIBENZOFURAN	860	U	
DIETHYL PHTHALATE	860	U	
DIMETHYL PHTHALATE	860	U	
DI-N-BUTYL PHTHALATE	860	U	
DI-N-OCTYL PHTHALATE	860	U	
FLUORANTHENE	860	U	
FLUORENE	860	U	
HEXACHLOROBENZENE	860	U	
HEXACHLOROBUTADIENE	860	U	
HEXACHLOROCYCLOPENTADIENE	4200	U	
HEXACHLOROETHANE	860	U	
INDENO(1,2,3-CD)PYRENE	860	U	
ISOPHORONE	860	U	
NAPHTHALENE	860	U	
NITROBENZENE	860	U	
N-NITROSO-DI-N-PROPYLAMINE	860	U	
N-NITROSODIPHENYLAMINE	860	U	
PENTACHLOROPHENOL	4200	U	

nsample	03TP05-0506-01
samp_date	4/30/2007
lab_id	C7E010209001
qc_type	NM
units	UG/KG
Pct_Solids	77.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	860	U	
PHENOL	860	U	
PYRENE	860	U	

PROJ_NO: 2192

SDG: C7E010209 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP05-0910-02	nsample	03TP05-0910-02	nsample	03TP05-0910-02
samp_date	4/30/2007	samp_date	4/30/2007	samp_date	4/30/2007
lab_id	C7E010209002	lab_id	C7E010209002	lab_id	C7E010209002
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	81.0	Pct_Solids	81.0	Pct_Solids	81.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	820	U	
1,2,4,5-TETRACHLOROBENZENE	820	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	820	U	
2,3,4,6-TETRACHLOROPHENOL	820	U	
2,4,5-TRICHLOROPHENOL	820	U	
2,4,6-TRICHLOROPHENOL	820	U	
2,4-DICHLOROPHENOL	820	U	
2,4-DIMETHYLPHENOL	820	U	
2,4-DINITROPHENOL	4000	U	
2,4-DINITROTOLUENE	820	U	
2,6-DINITROTOLUENE	820	U	
2-CHLORONAPHTHALENE	820	U	
2-CHLOROPHENOL	820	U	
2-METHYLNAPHTHALENE	820	U	
2-METHYLPHENOL	820	U	
2-NITROANILINE	4000	U	
2-NITROPHENOL	820	U	
3,3'-DICHLOROBENZIDINE	4000	U	
3-NITROANILINE	4000	U	
4,6-DINITRO-2-METHYLPHENOL	4000	U	
4-BROMOPHENYL PHENYL ETHER	820	U	
4-CHLORO-3-METHYLPHENOL	820	U	
4-CHLOROANILINE	820	U	
4-CHLOROPHENYL PHENYL ETHER	820	U	
4-METHYLPHENOL	820	U	
4-NITROANILINE	4000	U	
4-NITROPHENOL	4000	U	
ACENAPHTHENE	820	U	
ACENAPHTHYLENE	820	U	
ACETOPHENONE	820	U	
ANTHRACENE	820	U	
ATRAZINE	820	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	820	U	
BENZO(A)ANTHRACENE	820	U	
BENZO(A)PYRENE	820	U	
BENZO(B)FLUORANTHENE	820	U	
BENZO(G,H,I)PERYLENE	820	U	
BENZO(K)FLUORANTHENE	820	U	
BIS(2-CHLOROETHOXY)METHANE	820	U	
BIS(2-CHLOROETHYL)ETHER	820	U	
BIS(2-ETHYLHEXYL)PHTHALATE	820	U	
BUTYL BENZYL PHTHALATE	820	U	
CAPROLACTAM	820	U	
CARBAZOLE	820	U	
CHRYSENE	820	U	
DIBENZO(A,H)ANTHRACENE	820	U	
DIBENZOFURAN	820	U	
DIETHYL PHTHALATE	820	U	
DIMETHYL PHTHALATE	820	U	
DI-N-BUTYL PHTHALATE	820	U	
DI-N-OCTYL PHTHALATE	820	U	
FLUORANTHENE	820	U	
FLUORENE	820	U	
HEXACHLOROBENZENE	820	U	
HEXACHLOROBUTADIENE	820	U	
HEXACHLOROCYCLOPENTADIENE	4000	U	
HEXACHLOROETHANE	820	U	
INDENO(1,2,3-CD)PYRENE	820	U	
ISOPHORONE	820	U	
NAPHTHALENE	820	U	
NITROBENZENE	820	U	
N-NITROSO-DI-N-PROPYLAMINE	820	U	
N-NITROSODIPHENYLAMINE	820	U	
PENTACHLOROPHENOL	4000	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	820	U	
PHENOL	820	U	
PYRENE	820	U	

PROJ_NO: 2192

SDG: C7E010209 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	03TP05-0102-03	nsample	03TP05-0506-01	nsample	03TP05-0910-02
samp_date	4/30/2007	samp_date	4/30/2007	samp_date	4/30/2007
lab_id	C7E010209003	lab_id	C7E010209001	lab_id	C7E010209002
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	80.0	Pct_Solids	77.0	Pct_Solids	81.0
DUP_OF:	03TP05-0910-02	DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.7	J	PU
4,4'-DDE	2.5	J	U
4,4'-DDT	5.8	J	U
ALDRIN	5.6	J	U
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
AROCLOR-1016	21	U	
AROCLOR-1221	21	U	
AROCLOR-1232	21	U	
AROCLOR-1242	21	U	
AROCLOR-1248	21	U	
AROCLOR-1254	81	J	U
AROCLOR-1260	40		
AROCLOR-1262	21	U	
AROCLOR-1268	21	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	83		
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	2.1	U	
ENDOSULFAN SULFATE	0.91	J	PU
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	2.1	U	
ENDRIN KETONE	0.32	J	PU
GAMMA-BHC (LINDANE)	1.8	J	PU
GAMMA-CHLORDANE	5.5	J	U
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	2.8	J	PU
TOXAPHENE	83	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	9.9	J	U
4,4'-DDE	2	J	P
4,4'-DDT	6.2	J	U
ALDRIN	1.7	J	P
ALPHA-BHC	2.2	U	
ALPHA-CHLORDANE	2.2	U	
AROCLOR-1016	22	U	
AROCLOR-1221	22	U	
AROCLOR-1232	22	U	
AROCLOR-1242	22	U	
AROCLOR-1248	22	U	
AROCLOR-1254	22	U	
AROCLOR-1260	22	U	
AROCLOR-1262	22	U	
AROCLOR-1268	22	U	
BETA-BHC	2.2	U	
DELTA-BHC	0.35	J	PU
DIELDRIN	200		
ENDOSULFAN I	2.2	U	
ENDOSULFAN II	2.2	U	
ENDOSULFAN SULFATE	2.2	U	
ENDRIN	2.2	U	
ENDRIN ALDEHYDE	0.83	J	PU
ENDRIN KETONE	0.39	J	PU
GAMMA-BHC (LINDANE)	0.9	J	P
GAMMA-CHLORDANE	1.7	J	PU
HEPTACHLOR	2.2	U	
HEPTACHLOR EPOXIDE	2.2	U	
METHOXYCHLOR	3	J	P
TOXAPHENE	87	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	5.8	J	U
4,4'-DDE	1.6	J	PU
4,4'-DDT	2.1	U	
ALDRIN	3	J	U
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
AROCLOR-1016	21	U	
AROCLOR-1221	21	U	
AROCLOR-1232	21	U	
AROCLOR-1242	21	U	
AROCLOR-1248	21	U	
AROCLOR-1254	50		
AROCLOR-1260	55		
AROCLOR-1262	21	U	
AROCLOR-1268	21	U	
BETA-BHC	2.1	U	
DELTA-BHC	0.43	J	PU
DIELDRIN	76		
ENDOSULFAN I	2.1	U	
ENDOSULFAN II	2.1	U	
ENDOSULFAN SULFATE	2.3	J	U
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	2.1	U	
ENDRIN KETONE	0.55	J	PU
GAMMA-BHC (LINDANE)	1.3	J	PU
GAMMA-CHLORDANE	3.2	J	U
HEPTACHLOR	1.8	J	PU
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	4.6	J	U
TOXAPHENE	83	U	

Data Qualifier Key:

B	- Positive result is considered to be an artifact of blank contamination and should not be considered present.
J	- Value is considered estimated due to exceedance of technical quality control or because result is less than the Contract Required Quantitation Limit (CRQL).
K	- Positive result is considered biased high due to exceedance of technical quality control criteria.
L	- Positive result is considered biased low due to exceedance of technical quality control criteria.
U	- Value is a non-detected result as reported by the laboratory.
UL	- Non-detected result is considered biased low due to exceedance of technical quality control criteria.
UR	- Non-detected result is considered unusable due to exceedance of technical quality control criteria.

Qualifier Codes:

a	=	Lab Blank Contamination
b	=	Field Blank Contamination
c	=	Calibration (i.e., %RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
d	=	MS/MSD Noncompliance
e	=	LSC/LSCD Noncompliance
f	=	Laboratory Duplicate Imprecision
g	=	Field Duplicate Imprecision
h	=	Holding Time Exceedance
i	=	ICP Serial Dilution Noncompliance
j	=	GFAA PDS – GFAA MSA's r<0.995 (correlation coefficient)
k	=	ICP Interference – include ICSAB %Rs
l	=	Instrument Calibration Range Exceedance
m	=	Sample Preservation
n	=	Internal Standard Noncompliance
n01	=	Internal Standard Recovery Noncompliance Dioxins
n02	=	Recovery Standard Noncompliance Dioxins
n03	=	Clean-up Standard Noncompliance Dioxins
o	=	Poor Instrument Performance (i.e. baseline drifting)
p	=	Uncertainty Near Detection Limit (<2 x IDL for inorganics and < CRQL for organics)
q	=	Other Problems (can encompass of number of issues)
r	=	Surrogates Recovery Noncompliance
s	=	Pesticide/PCB Resolution
t	=	% Breakdown Noncompliance for DDT and Endrin
u	=	Pesticide/PCB % Difference Between Columns for Positive Results
v	=	Non-linear Calibrations, Tuning r <0.995 (correlation coefficient)
w	=	Ratios of primary monitored ions outside of theoretical +/-15 %, within +/- 25 %
x	=	Signal to noise response drop
y	=	Percent solids <30%
z	=	Uncertainty at 2 sigma deviation is greater than sample activity

APPENDIX B

Laboratory Analytical Results

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC/MS Volatiles

Lot-Sample #...:	C7E010209-003	**Work Order #...:**	JV2EC1A6	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7130078
Prep Date.....:	05/10/07	**Analysis Date..:**	05/10/07		
Prep Batch #...:	7130081	**Analysis Time..:**	11:24		
Dilution Factor:	0.85	**Initial Wgt/Vol:**	5.88 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	20	**Analyst ID.....:**	010099	**Instrument ID..:**	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	5.3	ug/kg	1.3
Chlorodibromomethane	ND	5.3	ug/kg	0.98
o-Xylene	ND	5.3	ug/kg	1.1
m-Xylene & p-Xylene	ND	11	ug/kg	2.6
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	1.2
Acetone	ND	21	ug/kg	1.3
Benzene	ND	5.3	ug/kg	1.1
Bromodichloromethane	ND	5.3	ug/kg	1.0
Bromoform	ND	5.3	ug/kg	1.1
Bromomethane	ND	5.3	ug/kg	1.3
2-Butanone	ND	5.3	ug/kg	1.0
Carbon disulfide	ND	5.3	ug/kg	1.3
Carbon tetrachloride	ND	5.3	ug/kg	0.94
Chlorobenzene	ND	5.3	ug/kg	1.2
Chloroethane	ND	5.3	ug/kg	1.5
Chloroform	ND	5.3	ug/kg	1.1
Chloromethane	ND	5.3	ug/kg	1.2
Cyclohexane	ND	5.3	ug/kg	1.1
1,2-Dibromo-3-chloro-propane	ND	5.3	ug/kg	0.89
1,2-Dibromoethane	ND	5.3	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.3	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.3	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.3	ug/kg	1.2
Dichlorodifluoromethane	ND	5.3	ug/kg	1.3
1,1-Dichloroethane	ND	5.3	ug/kg	1.0
1,2-Dichloroethane	ND	5.3	ug/kg	1.2
1,1-Dichloroethene	ND	5.3	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.3	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.3	ug/kg	1.2
1,2-Dichloropropane	ND	5.3	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.3	ug/kg	0.95
trans-1,3-Dichloropropene	ND	5.3	ug/kg	0.92
Ethylbenzene	ND	5.3	ug/kg	1.2
2-Hexanone	ND	5.3	ug/kg	0.84
Isopropylbenzene	ND	5.3	ug/kg	1.1
Methyl acetate	ND	5.3	ug/kg	1.1

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC/MS Volatiles

Lot-Sample #...: C7E010209-003 **Work Order #...:** JV2EC1A6 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	**1.6 J,B**	**5.3**	**ug/kg**	**0.81**
Methylcyclohexane	ND	5.3	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.3	ug/kg	0.92
Methyl tert-butyl ether	ND	5.3	ug/kg	0.98
Styrene	ND	5.3	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	1.2
1,2,4-Trichloro-benzene	ND	5.3	ug/kg	1.1
Tetrachloroethene	ND	5.3	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.3	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.3	ug/kg	1.1
Trichloroethene	ND	5.3	ug/kg	1.2
Trichlorofluoromethane	ND	5.3	ug/kg	1.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.3	ug/kg	1.3
Toluene	ND	5.3	ug/kg	0.84
Vinyl chloride	ND	5.3	ug/kg	1.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	92	(70 - 130)
Toluene-d8	96	(85 - 115)
4-Bromofluorobenzene	94	(85 - 120)
Dibromofluoromethane	90	(70 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC/MS Volatiles

Lot-Sample #...:	C7E010209-001	**Work Order #...:**	JV2D41A7	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7130078
Prep Date.....:	05/10/07	**Analysis Date..:**	05/10/07		
Prep Batch #...:	7130081	**Analysis Time..:**	10:36		
Dilution Factor:	1.09	**Initial Wgt/Vol:**	4.59 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	23	**Analyst ID.....:**	010099	**Instrument ID..:**	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	7.1	ug/kg	1.7
Chlorodibromomethane	ND	7.1	ug/kg	1.3
o-Xylene	ND	7.1	ug/kg	1.5
m-Xylen & p-Xylene	ND	14	ug/kg	3.5
1,2,3-Trichlorobenzene	ND	7.1	ug/kg	1.6
Acetone	ND	28	ug/kg	1.7
Benzene	ND	7.1	ug/kg	1.5
Bromodichloromethane	ND	7.1	ug/kg	1.4
Bromoform	ND	7.1	ug/kg	1.4
Bromomethane	ND	7.1	ug/kg	1.8
2-Butanone	ND	7.1	ug/kg	1.4
Carbon disulfide	ND	7.1	ug/kg	1.7
Carbon tetrachloride	ND	7.1	ug/kg	1.3
Chlorobenzene	ND	7.1	ug/kg	1.6
Chloroethane	ND	7.1	ug/kg	2.0
Chloroform	ND	7.1	ug/kg	1.5
Chloromethane	ND	7.1	ug/kg	1.6
Cyclohexane	ND	7.1	ug/kg	1.4
1,2-Dibromo-3-chloro-propane	ND	7.1	ug/kg	1.2
1,2-Dibromoethane	ND	7.1	ug/kg	1.5
1,3-Dichlorobenzene	ND	7.1	ug/kg	1.5
1,4-Dichlorobenzene	ND	7.1	ug/kg	1.6
1,2-Dichlorobenzene	ND	7.1	ug/kg	1.6
Dichlorodifluoromethane	ND	7.1	ug/kg	1.8
1,1-Dichloroethane	ND	7.1	ug/kg	1.4
1,2-Dichloroethane	ND	7.1	ug/kg	1.5
1,1-Dichloroethene	ND	7.1	ug/kg	1.7
cis-1,2-Dichloroethene	ND	7.1	ug/kg	1.5
trans-1,2-Dichloroethene	ND	7.1	ug/kg	1.6
1,2-Dichloropropane	ND	7.1	ug/kg	1.6
cis-1,3-Dichloropropene	ND	7.1	ug/kg	1.3
trans-1,3-Dichloropropene	ND	7.1	ug/kg	1.2
Ethylbenzene	ND	7.1	ug/kg	1.7
2-Hexanone	ND	7.1	ug/kg	1.1
Isopropylbenzene	ND	7.1	ug/kg	1.5
Methyl acetate	ND	7.1	ug/kg	1.5

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC/MS Volatiles

Lot-Sample #...: C7E010209-001 **Work Order #...:** JV2D41A7 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	**5.9 J,B**	**7.1**	**ug/kg**	**1.1**
Methylcyclohexane	ND	7.1	ug/kg	1.6
4-Methyl-2-pentanone	ND	7.1	ug/kg	1.2
Methyl tert-butyl ether	ND	7.1	ug/kg	1.3
Styrene	ND	7.1	ug/kg	1.6
1,1,2,2-Tetrachloroethane	ND	7.1	ug/kg	1.6
1,2,4-Trichloro-benzene	ND	7.1	ug/kg	1.5
Tetrachloroethene	ND	7.1	ug/kg	1.8
1,1,1-Trichloroethane	ND	7.1	ug/kg	1.4
1,1,2-Trichloroethane	ND	7.1	ug/kg	1.5
Trichloroethene	ND	7.1	ug/kg	1.6
Trichlorofluoromethane	ND	7.1	ug/kg	2.3
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.1	ug/kg	1.7
Toluene	ND	7.1	ug/kg	1.1
Vinyl chloride	ND	7.1	ug/kg	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	85	(70 - 130)
Toluene-d8	103	(85 - 115)
4-Bromofluorobenzene	89	(85 - 120)
Dibromofluoromethane	90	(70 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC/MS Volatiles

Lot-Sample #...:	C7E010209-002	**Work Order #...:**	JV2EA1A6	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7130078
Prep Date.....:	05/10/07	**Analysis Date..:**	05/10/07		
Prep Batch #...:	7130081	**Analysis Time..:**	11:00		
Dilution Factor:	0.85	**Initial Wgt/Vol:**	5.85 g	**Final Wgt/Vol..:**	5 mL
% Moisture.....:	19	**Analyst ID.....:**	010099	**Instrument ID..:**	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromochloromethane	ND	5.3	ug/kg	1.2
Chlorodibromomethane	ND	5.3	ug/kg	0.97
o-Xylene	ND	5.3	ug/kg	1.1
m-Xylene & p-Xylene	ND	11	ug/kg	2.6
1,2,3-Trichlorobenzene	ND	5.3	ug/kg	1.2
Acetone	**9.5 J**	**21**	**ug/kg**	**1.3**
Benzene	ND	5.3	ug/kg	1.1
Bromodichloromethane	ND	5.3	ug/kg	1.0
Bromoform	ND	5.3	ug/kg	1.1
Bromomethane	ND	5.3	ug/kg	1.3
2-Butanone	ND	5.3	ug/kg	1.0
Carbon disulfide	ND	5.3	ug/kg	1.3
Carbon tetrachloride	ND	5.3	ug/kg	0.94
Chlorobenzene	ND	5.3	ug/kg	1.2
Chloroethane	ND	5.3	ug/kg	1.5
Chloroform	ND	5.3	ug/kg	1.1
Chloromethane	ND	5.3	ug/kg	1.2
Cyclohexane	ND	5.3	ug/kg	1.1
1,2-Dibromo-3-chloro-propane	ND	5.3	ug/kg	0.89
1,2-Dibromoethane	ND	5.3	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.3	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.3	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.3	ug/kg	1.2
Dichlorodifluoromethane	ND	5.3	ug/kg	1.3
1,1-Dichloroethane	ND	5.3	ug/kg	1.0
1,2-Dichloroethane	ND	5.3	ug/kg	1.1
1,1-Dichloroethene	ND	5.3	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.3	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.3	ug/kg	1.2
1,2-Dichloropropane	ND	5.3	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.3	ug/kg	0.94
trans-1,3-Dichloropropene	ND	5.3	ug/kg	0.92
Ethylbenzene	ND	5.3	ug/kg	1.2
2-Hexanone	ND	5.3	ug/kg	0.83
Isopropylbenzene	ND	5.3	ug/kg	1.1
Methyl acetate	ND	5.3	ug/kg	1.1

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC/MS Volatiles

Lot-Sample #...: C7E010209-002 **Work Order #...:** JV2EA1A6 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	**2.4 J,B**	**5.3**	**ug/kg**	**0.81**
Methylcyclohexane	ND	5.3	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.3	ug/kg	0.91
Methyl tert-butyl ether	ND	5.3	ug/kg	0.97
Styrene	ND	5.3	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.3	ug/kg	1.2
1,2,4-Trichloro-benzene	ND	5.3	ug/kg	1.1
Tetrachloroethene	ND	5.3	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.3	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.3	ug/kg	1.1
Trichloroethene	ND	5.3	ug/kg	1.2
Trichlorofluoromethane	ND	5.3	ug/kg	1.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.3	ug/kg	1.3
Toluene	ND	5.3	ug/kg	0.83
Vinyl chloride	ND	5.3	ug/kg	1.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	87	(70 - 130)
Toluene-d8	104	(85 - 115)
4-Bromofluorobenzene	89	(85 - 120)
Dibromofluoromethane	91	(70 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TB-01

GC/MS Volatiles

Lot-Sample #...:	C7E010209-004	**Work Order #...:**	JV2EF1AA	**Matrix.....:**	WATER
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7134053
Prep Date.....:	05/14/07	**Analysis Date..:**	05/14/07		
Prep Batch #...:	7134083	**Analysis Time..:**	06:27		
Dilution Factor:	1	**Initial Wgt/Vol:**	5 mL	**Final Wgt/Vol..:**	5 mL
Analyst ID.....:	010099	**Instrument ID..:**	HP3		
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chlorodibromomethane	ND	5.0	ug/L	0.50
o-Xylene	ND	5.0	ug/L	0.89
m-Xylene & p-Xylene	ND	10	ug/L	1.6
1,2,3-Trichlorobenzene	ND	5.0	ug/L	0.33
Bromochloromethane	ND	5.0	ug/L	0.96
Acetone	ND	20	ug/L	0.83
Benzene	ND	5.0	ug/L	0.81
Bromodichloromethane	ND	5.0	ug/L	0.58
Bromoform	ND	5.0	ug/L	0.37
Bromomethane	ND	5.0	ug/L	0.75
2-Butanone	ND	5.0	ug/L	0.73
Carbon disulfide	ND	5.0	ug/L	1.1
Carbon tetrachloride	ND	5.0	ug/L	0.91
Chlorobenzene	ND	5.0	ug/L	0.71
Chloroethane	ND	5.0	ug/L	1.2
Chloroform	ND	5.0	ug/L	0.78
Chloromethane	ND	5.0	ug/L	0.87
Cyclohexane	ND	5.0	ug/L	1.1
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/L	1.3
1,2-Dibromoethane	ND	5.0	ug/L	0.64
1,3-Dichlorobenzene	ND	5.0	ug/L	0.66
1,4-Dichlorobenzene	ND	5.0	ug/L	0.60
1,2-Dichlorobenzene	ND	5.0	ug/L	0.65
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	0.64
1,1-Dichloroethene	ND	5.0	ug/L	0.87
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.0
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.90
1,2-Dichloropropane	ND	5.0	ug/L	0.67
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.79
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.57
Ethylbenzene	ND	5.0	ug/L	0.58
2-Hexanone	ND	5.0	ug/L	0.45
Isopropylbenzene	ND	5.0	ug/L	0.72
Methyl acetate	ND	5.0	ug/L	0.47

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Tetra Tech NUS, Inc

Client Sample ID: 03TB-01

GC/MS Volatiles

Lot-Sample #...: C7E010209-004 **Work Order #...:** JV2EF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	ND	5.0	ug/L	0.75
Methylcyclohexane	ND	5.0	ug/L	1.1
4-Methyl-2-pentanone	ND	5.0	ug/L	0.46
Methyl tert-butyl ether	ND	5.0	ug/L	0.77
Styrene	ND	5.0	ug/L	0.80
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.63
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.42
Tetrachloroethene	ND	5.0	ug/L	0.57
1,1,1-Trichloroethane	ND	5.0	ug/L	0.79
1,1,2-Trichloroethane	ND	5.0	ug/L	0.79
Trichloroethene	ND	5.0	ug/L	0.88
Trichlorofluoromethane	ND	5.0	ug/L	0.80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0	ug/L	1.2
Toluene	ND	5.0	ug/L	0.80
Vinyl chloride	ND	5.0	ug/L	0.94

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	104	(70 - 120)
Toluene-d8	110	(85 - 120)
4-Bromofluorobenzene	109	(75 - 120)
Dibromofluoromethane	101	(85 - 115)

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC/MS Semivolatiles

Lot-Sample #...:	C7E010209-003	**Work Order #...:**	JV2EC1A7	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07 15:30	**Date Received..:**	05/01/07 10:00	**MS Run #.....:**	
Prep Date.....:	05/02/07	**Analysis Date..:**	05/23/07		
Prep Batch #...:	7122015	**Analysis Time..:**	14:48		
Dilution Factor:	2	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	0.5 mL
% Moisture.....:	20	**Analyst ID.....:**	007062	**Instrument ID..:**	722
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	820	ug/kg	49
2,3,4,6-Tetrachlorophenol	ND	820	ug/kg	58
Acenaphthene	ND	820	ug/kg	65
Acenaphthylene	ND	820	ug/kg	75
Acetophenone	ND	820	ug/kg	120
Anthracene	ND	820	ug/kg	78
Atrazine	ND	820	ug/kg	120
Benzo(a)anthracene	ND	820	ug/kg	82
Benzo(a)pyrene	ND	820	ug/kg	75
Benzo(b)fluoranthene	ND	820	ug/kg	110
Benzo(ghi)perylene	ND	820	ug/kg	72
Benzo(k)fluoranthene	ND	820	ug/kg	110
Benzaldehyde	ND	820	ug/kg	170
1,1'-Biphenyl	ND	820	ug/kg	95
bis(2-Chloroethoxy) methane	ND	820	ug/kg	93
bis(2-Chloroethyl)-ether	ND	820	ug/kg	94
bis(2-Ethylhexyl) phthalate	ND	820	ug/kg	80
4-Bromophenyl phenyl ether	ND	820	ug/kg	68
Butyl benzyl phthalate	ND	820	ug/kg	88
Caprolactam	ND	820	ug/kg	120
Carbazole	ND	820	ug/kg	72
4-Chloroaniline	ND	820	ug/kg	56
4-Chloro-3-methylphenol	ND	820	ug/kg	70
2-Chloronaphthalene	ND	820	ug/kg	74
2-Chlorophenol	ND	820	ug/kg	140
4-Chlorophenyl phenyl ether	ND	820	ug/kg	57
Chrysene	ND	820	ug/kg	80
Dibenz(a,h)anthracene	ND	820	ug/kg	55
Dib nzofuran	ND	820	ug/kg	78
3,3'-Dichlorobenzidine	ND	4000	ug/kg	49
2,4-Dichlorophenol	ND	820	ug/kg	86

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC/MS Semivolatiles

Lot-Sample #...: C7E010209-003 Work Order #...: JV2EC1A7 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	820	ug/kg	76
2,4-Dimethylphenol	ND	820	ug/kg	71
Dimethyl phthalate	ND	820	ug/kg	67
Di-n-butyl phthalate	ND	820	ug/kg	74
4,6-Dinitro-2-methylphenol	ND	4000	ug/kg	53
2,4-Dinitrophenol	ND	4000	ug/kg	1200
2,4-Dinitrotoluene	ND	820	ug/kg	74
2,6-Dinitrotoluene	ND	820	ug/kg	61
Di-n-octyl phthalate	ND	820	ug/kg	71
Fluoranthene	ND	820	ug/kg	77
Fluorene	ND	820	ug/kg	72
Hexachlorobenzene	ND	820	ug/kg	67
Hexachlorobutadiene	ND	820	ug/kg	110
Hexachlorocyclopentadiene	ND	4000	ug/kg	56
Hexachloroethane	ND	820	ug/kg	110
Indeno(1,2,3-cd)pyrene	ND	820	ug/kg	58
Isophorone	ND	820	ug/kg	110
2-Methylnaphthalene	ND	820	ug/kg	85
2-Methylphenol	ND	820	ug/kg	120
4-Methylphenol	ND	820	ug/kg	180
Naphthalene	ND	820	ug/kg	85
2-Nitroaniline	ND	4000	ug/kg	77
3-Nitroaniline	ND	4000	ug/kg	77
4-Nitroaniline	ND	4000	ug/kg	48
Nitrobenzene	ND	820	ug/kg	100
2-Nitrophenol	ND	820	ug/kg	110
4-Nitrophenol	ND	4000	ug/kg	57
N-Nitrosodi-n-propylamine	ND	820	ug/kg	83
N-Nitrosodiphenylamine	ND	820	ug/kg	92
2,2'-oxybis(1-Chloropropane)	ND	820	ug/kg	130
Pentachlorophenol	ND	4000	ug/kg	56
Phenanthrene	ND	820	ug/kg	78
Phenol	ND	820	ug/kg	90
Pyrene	ND	820	ug/kg	89
2,4,5-Trichlorophenol	ND	820	ug/kg	79
2,4,6-Trichlorophenol	ND	820	ug/kg	58

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC/MS Semivolatiles

Lot-Sample #...: C7E010209-003 **Work Order #...:** JV2EC1A7 **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	65	(45 - 105)
2-Fluorophenol	66	(35 - 105)
Phenol-d5	69	(40 - 100)
2,4,6-Tribromophenol	74	(35 - 125)
Nitrobenzene-d5	63	(35 - 100)
Terphenyl-d14	96	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC/MS Semivolatiles

Lot-Sample #...:	C7E010209-001	**Work Order #...:**	JV2D41A8	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07 12:15	**Date Received..:**	05/01/07 10:00	**MS Run #.....:**	
Prep Date.....:	05/02/07	**Analysis Date..:**	05/23/07		
Prep Batch #...:	7122015	**Analysis Time..:**	13:51		
Dilution Factor:	2	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	0.5 mL
% Moisture.....:	23	**Analyst ID.....:**	007062	**Instrument ID..:**	722
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	860	ug/kg	51
2,3,4,6-Tetrachlorophenol	ND	860	ug/kg	61
Acenaphthene	ND	860	ug/kg	68
Acenaphthylene	ND	860	ug/kg	79
Acetophenone	ND	860	ug/kg	130
Anthracene	ND	860	ug/kg	82
Atrazine	ND	860	ug/kg	120
Benzo(a)anthracene	ND	860	ug/kg	85
Benzo(a)pyrene	ND	860	ug/kg	78
Benzo(b)fluoranthene	ND	860	ug/kg	120
Benzo(ghi)perylene	ND	860	ug/kg	75
Benzo(k)fluoranthene	ND	860	ug/kg	110
Benzaldehyde	ND	860	ug/kg	180
1,1'-Biphenyl	ND	860	ug/kg	99
bis(2-Chloroethoxy) methane	ND	860	ug/kg	97
bis(2-Chloroethyl)-ether	ND	860	ug/kg	98
bis(2-Ethylhexyl) phthalate	ND	860	ug/kg	84
4-Bromophenyl phenyl ether	ND	860	ug/kg	71
Butyl benzyl phthalate	ND	860	ug/kg	92
Caprolactam	ND	860	ug/kg	120
Carbazol	ND	860	ug/kg	75
4-Chloroaniline	ND	860	ug/kg	58
4-Chloro-3-methylphenol	ND	860	ug/kg	73
2-Chloronaphthalene	ND	860	ug/kg	77
2-Chlorophenol	ND	860	ug/kg	150
4-Chlorophenyl phenyl ether	ND	860	ug/kg	60
Chrysene	ND	860	ug/kg	84
Dibenz(a,h)anthracene	ND	860	ug/kg	57
Dibenzofuran	ND	860	ug/kg	81
3,3'-Dichlorobenzidine	ND	4200	ug/kg	51
2,4-Dichlorophenol	ND	860	ug/kg	90

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC/MS Semivolatiles

Lot-Sample #...: C7E010209-001 Work Order #...: JV2D41A8 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	860	ug/kg	79
2,4-Dimethylphenol	ND	860	ug/kg	75
Dimethyl phthalate	ND	860	ug/kg	70
Di-n-butyl phthalate	ND	860	ug/kg	77
4,6-Dinitro-2-methylphenol	ND	4200	ug/kg	55
2,4-Dinitrophenol	ND	4200	ug/kg	1300
2,4-Dinitrotoluene	ND	860	ug/kg	78
2,6-Dinitrotoluene	ND	860	ug/kg	64
Di-n-octyl phthalate	ND	860	ug/kg	75
Fluoranthene	ND	860	ug/kg	80
Fluorene	ND	860	ug/kg	75
Hexachlorobenzene	ND	860	ug/kg	70
Hexachlorobutadiene	ND	860	ug/kg	120
Hexachlorocyclopentadiene	ND	4200	ug/kg	58
Hexachloroethane	ND	860	ug/kg	120
Indeno(1,2,3-cd)pyrene	ND	860	ug/kg	61
Isophorone	ND	860	ug/kg	110
2-Methylnaphthalene	ND	860	ug/kg	89
2-Methylphenol	ND	860	ug/kg	130
4-Methylphenol	ND	860	ug/kg	190
Naphthalene	ND	860	ug/kg	88
2-Nitroaniline	ND	4200	ug/kg	80
3-Nitroaniline	ND	4200	ug/kg	81
4-Nitroaniline	ND	4200	ug/kg	50
Nitrobenzene	ND	860	ug/kg	110
2-Nitrophenol	ND	860	ug/kg	120
4-Nitrophenol	ND	4200	ug/kg	60
N-Nitrosodi-n-propylamine	ND	860	ug/kg	86
N-Nitrosodiphenylamine	ND	860	ug/kg	96
2,2'-oxybis(1-Chloropropane)	ND	860	ug/kg	140
Pentachlorophenol	ND	4200	ug/kg	59
Phenanthrene	ND	860	ug/kg	82
Phenol	ND	860	ug/kg	94
Pyrene	ND	860	ug/kg	93
2,4,5-Trichlorophenol	ND	860	ug/kg	83
2,4,6-Trichlorophenol	ND	860	ug/kg	60

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC/MS Semivolatiles

Lot-Sample #...: C7E010209-001 **Work Order #...:** JV2D41A8 **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	85	(45 - 105)
2-Fluorophenol	90	(35 - 105)
Phenol-d5	89	(40 - 100)
2,4,6-Tribromophenol	89	(35 - 125)
Nitrobenzene-d5	87	(35 - 100)
Terphenyl-d14	125	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC/MS Semivolatiles

Lot-Sample #...:	C7E010209-002	**Work Order #...:**	JV2EA1A7	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07 15:15	**Date Received..:**	05/01/07 10:00	**MS Run #.....:**	
Prep Date.....:	05/02/07	**Analysis Date..:**	05/23/07		
Prep Batch #...:	7122015	**Analysis Time..:**	14:19		
Dilution Factor:	2	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	0.5 mL
% Moisture.....:	19	**Analyst ID.....:**	007062	**Instrument ID..:**	722
		Method.....:	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro-benzene	ND	820	ug/kg	48
2,3,4,6-Tetrachlorophenol	ND	820	ug/kg	58
Acenaphthene	ND	820	ug/kg	65
Acenaphthylene	ND	820	ug/kg	75
Acetophenone	ND	820	ug/kg	120
Anthracene	ND	820	ug/kg	78
Atrazine	ND	820	ug/kg	120
Benzo(a)anthracene	ND	820	ug/kg	81
Benzo(a)pyrene	ND	820	ug/kg	74
Benzo(b)fluoranthene	ND	820	ug/kg	110
Benzo(ghi)perylene	ND	820	ug/kg	71
Benzo(k)fluoranthene	ND	820	ug/kg	110
Benzaldehyde	ND	820	ug/kg	170
1,1'-Biphenyl	ND	820	ug/kg	94
bis(2-Chloroethoxy) methane	ND	820	ug/kg	92
bis(2-Chloroethyl)-ether	ND	820	ug/kg	94
bis(2-Ethylhexyl) phthalate	ND	820	ug/kg	80
4-Bromophenyl phenyl ether	ND	820	ug/kg	68
Butyl benzyl phthalate	ND	820	ug/kg	87
Caprolactam	ND	820	ug/kg	120
Carbazole	ND	820	ug/kg	72
4-Chloroaniline	ND	820	ug/kg	56
4-Chloro-3-methylphenol	ND	820	ug/kg	70
2-Chloronaphthalene	ND	820	ug/kg	74
2-Chlorophenol	ND	820	ug/kg	140
4-Chlorophenyl phenyl ether	ND	820	ug/kg	57
Chrysene	ND	820	ug/kg	80
Dibenz(a,h)anthracene	ND	820	ug/kg	54
Dibenzofuran	ND	820	ug/kg	77
3,3'-Dichlorobenzidine	ND	4000	ug/kg	49
2,4-Dichlorophenol	ND	820	ug/kg	86

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC/MS Semivolatiles

Lot-Sample #...: C7E010209-002 **Work Order #...:** JV2EA1A7 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	820	ug/kg	75
2,4-Dimethylphenol	ND	820	ug/kg	71
Dimethyl phthalate	ND	820	ug/kg	67
Di-n-butyl phthalate	ND	820	ug/kg	73
4,6-Dinitro-2-methylphenol	ND	4000	ug/kg	53
2,4-Dinitrophenol	ND	4000	ug/kg	1200
2,4-Dinitrotoluene	ND	820	ug/kg	74
2,6-Dinitrotoluene	ND	820	ug/kg	61
Di-n-octyl phthalate	ND	820	ug/kg	71
Fluoranthene	ND	820	ug/kg	76
Fluorene	ND	820	ug/kg	71
Hexachlorobenzene	ND	820	ug/kg	67
Hexachlorobutadiene	ND	820	ug/kg	110
Hexachlorocyclopentadiene	ND	4000	ug/kg	55
Hexachloroethane	ND	820	ug/kg	110
Indeno(1,2,3-cd)pyrene	ND	820	ug/kg	58
Isophorone	ND	820	ug/kg	110
2-Methylnaphthalene	ND	820	ug/kg	85
2-Methylphenol	ND	820	ug/kg	120
4-Methylphenol	ND	820	ug/kg	180
Naphthalene	ND	820	ug/kg	84
2-Nitroaniline	ND	4000	ug/kg	76
3-Nitroaniline	ND	4000	ug/kg	77
4-Nitroaniline	ND	4000	ug/kg	47
Nitrobenzene	ND	820	ug/kg	100
2-Nitrophenol	ND	820	ug/kg	110
4-Nitrophenol	ND	4000	ug/kg	57
N-Nitrosodi-n-propylamine	ND	820	ug/kg	82
N-Nitrosodiphenylamine	ND	820	ug/kg	92
2,2'-oxybis(1-Chloropropane)	ND	820	ug/kg	130
Pentachlorophenol	ND	4000	ug/kg	56
Phenanthrene	ND	820	ug/kg	78
Phenol	ND	820	ug/kg	90
Pyrene	ND	820	ug/kg	89
2,4,5-Trichlorophenol	ND	820	ug/kg	79
2,4,6-Trichlorophenol	ND	820	ug/kg	57

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Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC/MS Semivolatiles

Lot-Sample #...: C7E010209-002 **Work Order #...:** JV2EA1A7 **Matrix.....:** SOLID

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	69	(45 - 105)
2-Fluorophenol	74	(35 - 105)
Phenol-d5	75	(40 - 100)
2,4,6-Tribromophenol	81	(35 - 125)
Nitrobenzene-d5	71	(35 - 100)
Terphenyl-d14	99	(30 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC Semivolatiles

Lot-Sample #...:	C7E010209-003	Work Order #...:	JV2EC1A8	Matrix.....:	SOLID
Date Sampled...:	04/30/07	Date Received..:	05/01/07	MS Run #.....:	7123032
Prep Date.....:	05/03/07	Analysis Date..:	05/04/07		
Prep Batch #...:	7123048	Analysis Time..:	12:12		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	20	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	ND	2.1	ug/kg	0.32
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	ND	2.1	ug/kg	0.22
gamma-BHC (Lindane)	**1.8 J,PG**	**2.1**	**ug/kg**	**0.29**
Heptachlor	ND	2.1	ug/kg	0.26
Aldrin	**5.6 PG**	**2.1**	**ug/kg**	**0.22**
Heptachlor epoxide	ND	2.1	ug/kg	0.21
Endosulfan I	ND	2.1	ug/kg	0.22
Dieldrin	**83**	**2.1**	**ug/kg**	**0.15**
4,4'-DDE	**2.5 PG**	**2.1**	**ug/kg**	**0.12**
Endrin	ND	2.1	ug/kg	0.17
Endrin ketone	**0.32 J,PG**	**2.1**	**ug/kg**	**0.24**
Endrin aldehyde	ND	2.1	ug/kg	0.26
Endosulfan II	ND	2.1	ug/kg	0.48
4,4'-DDD	**1.7 J,B,PG**	**2.1**	**ug/kg**	**0.19**
Endosulfan sulfate	**0.91 J,PG**	**2.1**	**ug/kg**	**0.34**
4,4'-DDT	**5.8 PG**	**2.1**	**ug/kg**	**0.28**
Methoxychlor	**2.8 J,PG**	**4.1**	**ug/kg**	**0.86**
alpha-Chlordane	ND	2.1	ug/kg	0.13
gamma-Chlordane	**5.5 PG**	**2.1**	**ug/kg**	**0.21**
Toxaphene	ND	83	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(70 - 125)
Decachlorobiphenyl	94	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC Semivolatiles

Lot-Sample #...:	C7E010209-001	Work Order #...:	JV2D41A9	Matrix.....:	SOLID
Date Sampled...:	04/30/07	Date Received..:	05/01/07	MS Run #.....:	7123032
Prep Date.....:	05/03/07	Analysis Date..:	05/04/07		
Prep Batch #...:	7123048	Analysis Time..:	10:13		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	23	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	ND	2.2	ug/kg	0.33
beta-BHC	ND	2.2	ug/kg	0.26
delta-BHC	**0.35 J,PG**	**2.2**	**ug/kg**	**0.23**
gamma-BHC (Lindane)	**0.90 J**	**2.2**	**ug/kg**	**0.30**
Heptachlor	ND	2.2	ug/kg	0.28
Aldrin	**1.7 J**	**2.2**	**ug/kg**	**0.23**
Heptachlor epoxide	ND	2.2	ug/kg	0.22
Endosulfan I	ND	2.2	ug/kg	0.23
Dieldrin	**200**	**2.2**	**ug/kg**	**0.16**
4,4'-DDE	**2.0 J**	**2.2**	**ug/kg**	**0.13**
Endrin	ND	2.2	ug/kg	0.17
Endrin ketone	**0.39 J,PG**	**2.2**	**ug/kg**	**0.25**
Endrin aldehyde	**0.83 J,PG**	**2.2**	**ug/kg**	**0.27**
Endosulfan II	ND	2.2	ug/kg	0.50
4,4'-DDD	**9.9 B**	**2.2**	**ug/kg**	**0.19**
Endosulfan sulfate	ND	2.2	ug/kg	0.35
4,4'-DDT	**6.2**	**2.2**	**ug/kg**	**0.30**
Methoxychlor	**3.0 J**	**4.3**	**ug/kg**	**0.90**
alpha-Chlordane	ND	2.2	ug/kg	0.13
gamma-Chlordane	**1.7 J**	**2.2**	**ug/kg**	**0.22**
Toxaphene	ND	87	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(70 - 125)
Decachlorobiphenyl	84	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC Semivolatiles

Lot-Sample #...:	C7E010209-002	Work Order #...:	JV2EA1A8	Matrix.....:	SOLID
Date Sampled...:	04/30/07	Date Received..:	05/01/07	MS Run #.....:	7123032
Prep Date.....:	05/03/07	Analysis Date..:	05/04/07		
Prep Batch #...:	7123048	Analysis Time..:	10:30		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	19	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
alpha-BHC	ND	2.1	ug/kg	0.32
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	**0.43 J,PG**	**2.1**	**ug/kg**	**0.22**
gamma-BHC (Lindane)	**1.3 J,PG**	**2.1**	**ug/kg**	**0.29**
Heptachlor	**1.8 J,PG**	**2.1**	**ug/kg**	**0.26**
Aldrin	**3.0 PG**	**2.1**	**ug/kg**	**0.22**
Heptachlor epoxide	ND	2.1	ug/kg	0.21
Endosulfan I	ND	2.1	ug/kg	0.22
Dieldrin	**76**	**2.1**	**ug/kg**	**0.15**
4,4'-DDE	**1.6 J,PG**	**2.1**	**ug/kg**	**0.12**
Endrin	ND	2.1	ug/kg	0.17
Endrin ketone	**0.55 J,PG**	**2.1**	**ug/kg**	**0.24**
Endrin aldehyde	ND	2.1	ug/kg	0.26
Endosulfan II	ND	2.1	ug/kg	0.48
4,4'-DDD	**5.8 B,PG**	**2.1**	**ug/kg**	**0.18**
Endosulfan sulfate	**2.3 PG**	**2.1**	**ug/kg**	**0.34**
4,4'-DDT	ND	2.1	ug/kg	0.28
Methoxychlor	**4.6 PG**	**4.1**	**ug/kg**	**0.86**
alpha-Chlordane	ND	2.1	ug/kg	0.13
gamma-Chlordane	**3.2 PG**	**2.1**	**ug/kg**	**0.21**
Toxaphene	ND	83	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(70 - 125)
Decachlorobiphenyl	85	(55 - 130)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quanitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0102-03

GC Semivolatiles

Lot-Sample #...:	C7E010209-003	**Work Order #...:**	JV2EC1CA	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7123034
Prep Date.....:	05/03/07	**Analysis Date..:**	05/04/07		
Prep Batch #...:	7123052	**Analysis Time..:**	16:15		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	20	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1262	ND	21	ug/kg	4.5
Aroclor 1268	ND	21	ug/kg	2.7
Aroclor 1016	ND	21	ug/kg	3.1
Aroclor 1221	ND	21	ug/kg	4.0
Aroclor 1232	ND	21	ug/kg	3.6
Aroclor 1242	ND	21	ug/kg	3.4
Aroclor 1248	ND	21	ug/kg	2.0
Aroclor 1254	**81**	**21**	**ug/kg**	**2.9**
Aroclor 1260	**40**	**21**	**ug/kg**	**2.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(40 - 140)
Decachlorobiphenyl	74	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0506-01

GC Semivolatiles

Lot-Sample #...:	C7E010209-001	**Work Order #...:**	JV2D41CC	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7123034
Prep Date.....:	05/03/07	**Analysis Date..:**	05/04/07		
Prep Batch #...:	7123052	**Analysis Time..:**	15:35		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	23	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1262	ND	22	ug/kg	4.7
Aroclor 1268	ND	22	ug/kg	2.8
Aroclor 1016	ND	22	ug/kg	3.2
Aroclor 1221	ND	22	ug/kg	4.1
Aroclor 1232	ND	22	ug/kg	3.7
Aroclor 1242	ND	22	ug/kg	3.5
Aroclor 1248	ND	22	ug/kg	2.1
Aroclor 1254	ND	22	ug/kg	3.1
Aroclor 1260	ND	22	ug/kg	3.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(40 - 140)
Decachlorobiphenyl	69	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP05-0910-02

GC Semivolatiles

Lot-Sample #...:	C7E010209-002	**Work Order #...:**	JV2EA1CA	**Matrix.....:**	SOLID
Date Sampled...:	04/30/07	**Date Received..:**	05/01/07	**MS Run #.....:**	7123034
Prep Date.....:	05/03/07	**Analysis Date..:**	05/04/07		
Prep Batch #...:	7123052	**Analysis Time..:**	15:55		
Dilution Factor:	1	**Initial Wgt/Vol:**	15 g	**Final Wgt/Vol..:**	20 mL
% Moisture.....:	19	**Analyst ID.....:**	402360	**Instrument ID..:**	S/T
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1262	ND	21	ug/kg	4.5
Aroclor 1268	ND	21	ug/kg	2.7
Aroclor 1016	ND	21	ug/kg	3.1
Aroclor 1221	ND	21	ug/kg	3.9
Aroclor 1232	ND	21	ug/kg	3.5
Aroclor 1242	ND	21	ug/kg	3.4
Aroclor 1248	ND	21	ug/kg	2.0
Aroclor 1254	**50**	**21**	**ug/kg**	**2.9**
Aroclor 1260	**55**	**21**	**ug/kg**	**2.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	137	(40 - 140)
Decachlorobiphenyl	106	(60 - 125)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

APPENDIX C

Support Documentation

CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003

STL Lot #: C7E010209

Sample Receiving:
STL Pittsburgh received samples on May 1, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:
All non-CCC compounds, associated with ICAL 4050507S, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 1,2-Dibromo-3-chloropropane, Bromoform, Chloroethane and Methylene chloride. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

All non-CCC compounds, associated with ICAL 3050107H, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compound: Trichlorofluoromethane. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

The method blank for batch 7130081 had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had methylene chloride detected had the result flagged with a "B" qualifier.

The LCS associated with batch 7134083 had acetone and 2-hexanone recover high and outside of criteria. This LCS is within acceptable criteria based on the number of marginal exceedances allowed according to DOD requirements.

GC/MS Semivolatiles:
All non-CCC compounds that have >15% RSD were evaluated to see if a better curve could be drawn using a quadratic curve. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a quadratic curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation.

CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003

STL Lot #: C7E010209

GC/MS Semivolatiles cont.:
The MDL for 1,2,4,5-tetrachlorobenzene is not current.

The samples were analyzed at a dilution.

Pesticides:
All compounds <20% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A curve will be used for a compound where it is determined to be the "best-fit" evaluation.

The method blank had 4,4'-DDD detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had the same compound detected had the result flagged with a "B" qualifier.

PCBs:
There were no problems associated with the analysis.

Metals:
The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The concentrations of lead and zinc in sample 03TP05-0506-1, and the concentrations of lead in samples 03TP05-0910-02 and 03TP05-0102-03 were over the instrument's linear range and required a dilution.

General Chemistry:
There were no problems associated with the analysis.

Dioxins:
STL Knoxville, TN performed the dioxin analysis. All data is included in the package.

C7E010209

Chain of Custody Record

STL-4124 (0901)

STL
Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS	Project Manager: Russell Turner	Date: 4/30/07	Chain of Custody Number: 312314
Address: 600 Clark Ave	Telephone Number (Area Code)/Fax Number: 610-491-9688	Lab Number:	Page 1 of 1
City: King of Prussia; State: PA; Zip Code: 19406	Site Contact:	Lab Contact:	
Project Name and Location (State): NAS JRB Willow Grove, PA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC 5g Encore	SVOC, Pest/PCB 4oz	TAL metals/CN 4oz	Dioxin 4oz	VOC 40ml vial	Special Instructions/ Conditions of Receipt
03TP05-0506-01	4/30/07	1215				✓	✓						3	1	1	1		
03TP05-0910-02	4/30/07	1515				✓	✓						3	1	1			
03TP05-0102-03	4/30/07	1530				✓	✓						3	1	1			
03 TB-01	4/30/07	0730		✓						✓							2	Trip Blank

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Donald W Haber	4/30/07	1830	1. Received By: [signature]	05-01-07	1000
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C7E010209 **Work Order #...:** JWMA41AA **Matrix.....:** SOLID
MB Lot-Sample #: C7E100000-081

Prep Date.....: 05/10/07 **Analysis Time..:** 06:14
Analysis Date..: 05/10/07 **Prep Batch #...:** 7130081 **Final Wgt/Vol..:** 5 mL
Dilution Factor: 1 **Initial Wgt/Vol:** 5 g **Instrument ID..:** HP4
Analyst ID.....: 010099

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	**1.6 J**	**5.0**	**ug/kg**	**SW846 8260B**
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: C7E010209
MB Lot-Sample #: C7E030000-048

Work Order #...: JV6CH1AA

Matrix.....: SOLID

Prep Date.....: 05/03/07
Prep Batch #...: 7123048
Initial Wgt/Vol: 15 g
Analyst ID.....: 402331

Analysis Date..: 05/04/07
Dilution Factor: 1

Analysis Time..: 11:04
Final Wgt/Vol..: 20 mL
Instrument ID..: G/H

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Aldrin	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	**0.28 J**	**1.7**	**ug/kg**	**SW846 8081A**
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
Toxaphene	ND	67	ug/kg	SW846 8081A

x 5 = 1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	98	(70 - 125)
Decachlorobiphenyl	96	(55 - 130)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated: The analyte was positively identified; the quanitation is estimated.

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0102-03

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2EC1A8 Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-BHC (Lindane)	1	4.67	4.65	4.71	2.642	
	2	4.75	4.68	4.78	1.475	79.1
Aldrin	1	5.19	5.14	5.20	8.354	
	2	5.49	5.44	5.54	4.522	84.7
Dieldrin	1	6.88	6.85	6.91	66.83	
	2	6.83	6.78	6.88	66.20	1.0
4,4'-DDE	1	6.71	6.68	6.74	4.200	
	2	6.63	6.58	6.68	1.982	111.9
4,4'-DDD	1	7.45	7.41	7.47	5.905	
	2	7.42	7.36	7.46	1.334	342.6
Endosulfan sulfate	1	8.06	8.04	8.10	0.7312	
	2	8.30	8.22	8.32	1.175	60.7
4,4'-DDT	1	7.89	7.86	7.92	4.661	
	2	7.82	7.76	7.86	8.076	73.3
Methoxychlor	1	8.70	8.65	8.71	2.230	
	2	8.73	8.64	8.74	8.050	261.0

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0102-03

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2EC1A8 Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin ketone	1	8.83	8.78	8.84	3.490	
	2	9.09	9.02	9.12	0.2606	999.9
gamma-Chlordane	1	6.35	6.34	6.40	6.524	
	2	6.35	6.29	6.39	4.381	48.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 2 of 2

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0506-01

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2D41A9 Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
delta-BHC	1	5.63	5.60	5.66	0.5989	
	2	5.37	5.30	5.40	0.2662	125.0
gamma-BHC (Lindane)	1	4.67	4.65	4.71	0.5959	
	2	4.76	4.68	4.78	0.6894	15.7
Aldrin	1	5.19	5.14	5.20	1.334	
	2	5.49	5.44	5.54	1.323	0.8
Dieldrin	1	6.88	6.85	6.91	156.8	
	2	6.83	6.78	6.88	149.2	5.1
4,4'-DDE	1	6.71	6.68	6.74	1.526	
	2	6.63	6.58	6.68	1.185	28.8
4,4'-DDD	1	7.44	7.41	7.47	7.645	
	2	7.42	7.36	7.46	7.489	2.1
4,4'-DDT	1	7.89	7.86	7.92	3.650	
	2	7.81	7.76	7.86	4.788	31.2
Methoxychlor	1	8.70	8.65	8.71	2.276	
	2	8.73	8.64	8.74	2.220	2.5

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0506-01

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2D41A9 Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin ketone	1	8.82	8.78	8.84	1.035	
	2	9.09	9.02	9.12	0.3010	243.8
Endrin aldehyde	1	7.74	7.69	7.75	1.028	
	2	7.90	7.86	7.96	0.6418	60.2
gamma-Chlordane	1	6.36	6.34	6.40	1.344	
	2	6.35	6.29	6.39	1.074	25.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 2 of 2

FORM X PEST-1 OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0910-02

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2EA1A8 Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
~~alpha-BHC~~	~~1~~	~~4.30~~	~~4.29~~	~~4.35~~	~~0.2287~~	ND
NDt 5/10/07	~~2~~	~~4.33~~	~~4.30~~	~~4.40~~	~~2.367~~	~~930.5~~
delta-BHC	1	5.63	5.60	5.66	0.3460	
	2	5.37	5.30	5.40	1.500	333.5
gamma-BHC (Lindane)	1	4.67	4.65	4.71	1.848	
	2	4.75	4.68	4.78	1.063	73.8
Heptachlor	1	5.26	5.25	5.31	1.481	
	2	5.18	5.12	5.22	3.414	130.5
Aldrin	1	5.19	5.14	5.20	5.438	
	2	5.49	5.44	5.54	2.418	124.9
Dieldrin	1	6.89	6.85	6.91	60.74	
	2	6.83	6.78	6.88	61.02	0.5
4,4'-DDE	1	6.71	6.68	6.74	2.636	
	2	6.63	6.58	6.68	1.294	103.7
4,4'-DDD	1	7.45	7.41	7.47	10.56	
	2	7.42	7.36	7.46	4.680	125.6

page 1 of 2

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0910-02

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2EA1A8 Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC4 Instrument ID (2): GC4

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endosulfan sulfate	1	8.06	8.04	8.10	1.831	
	2	8.30	8.22	8.32	3.409	86.2
Methoxychlor	1	8.70	8.65	8.71	3.709	
	2	8.73	8.64	8.74	25.74	594.0
Endrin ketone	1	8.83	8.78	8.84	11.21	
	2	9.09	9.02	9.12	0.4437	999.9
gamma-Chlordane	1	6.36	6.34	6.40	4.397	
	2	6.35	6.29	6.39	2.555	72.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

page 2 of 2

FORM X PEST-1

OLM03.0

10B
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

03TP05-0102-03

Lab Name: .STL PITTSBURGH Contract:

Lab Code: STL Case No.: SAS No.: 40325 SDG No.: C7E010209

Lab Sample ID: JV2EC1CA Date(s) Analyzed: 05/04/07 05/04/07

Instrument ID (1): GC14 Instrument ID (2): GC14

GC Column(1): MR-1 ID: 0.53(mm) GC Column(2): MR-2 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	8.34	8.26	8.40	95.573		
Aroclor-1254	2	8.60	8.52	8.66	68.790		
	3	8.93	8.84	8.98	64.314		
COLUMN 1	4	9.03	8.95	9.09	51.152		
	5	9.45	9.36	9.50	46.542	65.274	
	1	8.51	8.44	8.58	101.67		
	2	8.71	8.64	8.78	40.707		
	3	9.12	9.05	9.19	39.972		
COLUMN 2	4	9.26	9.18	9.32	32.509		
	5	9.63	9.55	9.69	33.879	49.747	31.2
	1	9.27	9.21	9.31	32.331		
Aroclor-1260	2	9.67	9.60	9.70	36.320		
	3	10.06	10.00	10.10	42.554		
COLUMN 1	4	10.20	10.13	10.23	22.826		
	5	10.52	10.46	10.56	22.692	31.344	
	1	9.47	9.41	9.51	35.795		
	2	9.79	9.73	9.83	27.428		
	3	10.28	10.23	10.33	60.522		
COLUMN 2	4	10.37	10.32	10.42	20.955		
	5	10.78	10.72	10.82	17.897	32.519	3.7
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks for each column are required for identification of multicomponent analytes.

page 1 of 1

FORM X PEST-2 OLM03.0

EVALUATION OF ORGANIC DUPLICATE ANALYSIS PRECISION

Precision Objectives		Compound >or=5xCRQL/MDL	Compound <5xCRQL
	Aqueous	RPD<or=30%	Difference < or =CRQL/MDL
	Solid	RPD<or=50%	Difference < or =2xCRQL/MDL
	Air	RPD<or=20%	Difference < or =CRQL/MDL

Sample ID:	**03TP05-0102-03**		**03TP05-0910-02**				
Laboratory ID:							
Sample Date:	**4/30/2007**		**4/30/2007**				
Duplicate:	**03TP05-0910-02**		**03TP05-0102-03**				
	RESULT	**QUAL**	**RESULT**	**QUAL**	**RPD**	**CRQL/MDL**	**NOTES**
PARAMETERS	**mg/Kg**		**mg/Kg**				
DDD	1.7	J	5.8	B	NC	2.1	2, IN
DDE	2.5		1.6	J	NC	2.1	2, IN
DDT	5.8		2.1	U	NC	2.1	2, IN
Aldrin	5.6		3		NC	2.1	2, IN
delta-BHC	2.1	U	0.43	J	NC	2.1	2, IN
Dieldrin	83		76		8.8	2.1	1, IN
Endosulfan Sulfate	0.91	J	2.3		NC	2.1	2, IN
Endrin Ketone	0.32	J	0.55	J	NC	2.1	2, IN
gamma-Bhc	1.8	J	1.3	J	NC	2.1	2, IN
gamma-Chlordane	5.5		3.2		NC	2.1	2, IN
Heptachlor	2.1	U	1.8	J	NC	2.1	2, IN
Methoxychlor	2.8	J	4.6		NC	4.1	2, IN
Aroclor-1254	81		50		NC	21	2, IN
Aroclor-1260	40		55		NC	21	2, IN

NOTES

1 - When both results are > or = 5xCRQL/MDL, the acceptance limit is the relative percent difference must be < or = 30% for aqueous and air samples and must be < 50% for solid samples.

2 - When at least one of the results is < 5x CRQL/MDL, the acceptance limit is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

Q - The qualifier is entered to indicate if the anlayte was not detected or qualitatively questionable in the sample.

U - the compound was not detected in the sample at or above the associated numerical value.

NC - The RPD was not calculated because one of the results was not detected; the acceptance limit used is the difference between the results must be < or = CRQL/MDL for aqueous and air samples and < or = 2xCRQL/MDL for solid samples.

J - The positive results should be considered estimated.

B - The result should be considered non-detected or qualitatively questionable due to blank contamination.

IN - The results are acceptable.

COMMENTS

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp4.i
Lab File ID: CC40510.D
Analysis Type: SOIL
Lab Sample ID: VSTD50
Method: \\qpitpa02\d\chem\hp4.i\4051007d.b\8260bsoil.m

Injection Date: 10-MAY-2007 05:10
Init. Cal. Date(s): 22-MAR-2007 05-MAY-2007
Init. Cal. Times: 18:10 06:23
Quant Type: ISTD

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D
	53 Bromodichloromethane	0.30313	0.28503	0.010	-6.0	25.0
	57 cis-1,3-Dichloropropene	0.38751	0.36636	0.010	-5.5	25.0
	58 4-Methyl-2-Pentanone	1.09966	1.25672	0.010	14.3	50.0
	60 Toluene	5.61198	5.81210	0.010	3.6	20.0
	61 trans-1,3-Dichloropropene	1.38688	1.46298	0.010	5.5	25.0
	63 1,3-Dichloropropane	1.41040	1.50024	0.010	6.4	25.0
	64 1,1,2-Trichloroethane	0.76079	0.81695	0.010	7.4	25.0
	65 Tetrachloroethene	0.96249	1.01046	0.010	5.0	25.0
	66 2-Hexanone	0.94901	1.20983	0.010	27.5	50.0
	67 Dibromochloromethane	0.78001	0.81471	0.010	4.4	25.0
	68 1,2-Dibromoethane	0.74801	0.79150	0.010	5.8	25.0
	70 Chlorobenzene	3.18524	3.34195	0.300	4.9	25.0
	71 1,1,1,2-Tetrachloroethane	0.93977	1.00472	0.010	6.9	25.0
	72 Ethylbenzene	1.89382	1.99000	0.010	5.1	20.0
	73 m + p-Xylene	2.29584	2.44954	0.010	6.7	25.0
	74 Xylene-o	2.15943	2.30335	0.010	6.7	25.0
M	75 Xylenes (total)	2.25037	2.40081	0.010	6.7	25.0
	76 Styrene	3.54795	3.79363	0.010	6.9	25.0
	77 Bromoform	0.37923	0.39190	0.100	3.3	25.0
	78 Isopropylbenzene	5.95698	6.34134	0.010	6.5	25.0
	83 1,1,2,2-Tetrachloroethane	0.57010	0.66096	0.300	15.9	25.0
	91 1,3-Dichlorobenzene	1.60913	1.81193	0.010	12.6	25.0
	93 1,4-Dichlorobenzene	1.63625	1.83610	0.010	12.2	25.0
	95 1,2-Dichlorobenzene	1.42330	1.61928	0.010	13.8	25.0
	96 1,2-Dibromo-3-chloropropane	0.09006	0.10237	0.010	13.7	50.0
	97 1,2,4-Trichlorobenzene	0.95320	1.08250	0.010	13.6	25.0
	100 1,2,3-Trichlorobenzene	0.80280	0.89493	0.010	11.5	25.0

No positive detections in associated samples

no hits in associated Sample
03TB-01

SW846 8260B CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Cod : STLPIT SDG No:

Lot #: C7E140000 WO #: JWWPL1AC
BATCH: 7134083

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENT. (ug/L)	% REC	QC LIMITS REC	QUAL
1,1-Dichloroethene	50.0	48.2	96	70- 130	
Trichloroethene	50.0	49.6	99	70- 125	
Benzene	50.0	50.6	101	80- 120	
Toluene	50.0	56.4	113	75- 120	
Chlorobenzene	50.0	56.0	112	80- 120	
Acetone	50.0	80.8	162*	40- 140	a
Bromodichloromethane	50.0	49.1	98	75- 120	
Bromoform	50.0	49.9	100	70- 130	
Bromomethane	50.0	50.0	100	30- 145	
2-Butanone	50.0	74.3	149	30- 150	
Bromochloromethane	50.0	49.8	100	65- 130	
Carbon disulfide	50.0	46.0	92	35- 160	
Carbon tetrachloride	50.0	46.5	93	65- 140	
Chloroethane	50.0	53.6	107	60- 135	
Chloroform	50.0	50.1	100	65- 135	
Chloromethane	50.0	49.5	99	40- 125	
1,2-Dibromo-3-chloropropa	50.0	43.9	88	50- 130	
1,2-Dibromoethane	50.0	57.2	114	80- 120	
1,3-Dichlorobenzene	50.0	52.4	105	75- 125	
1,4-Dichlorobenzene	50.0	52.1	104	75- 125	
1,2-Dichlorobenzene	50.0	52.4	105	70- 120	
Dichlorodifluoromethane	50.0	47.4	95	30- 155	
1,1-Dichloroethane	50.0	49.1	98	70- 135	
1,2-Dichloroethane	50.0	52.6	105	70- 130	
trans-1,2-Dichloroethene	50.0	48.6	97	60- 140	
cis-1,2-Dichloroethene	50.0	50.2	100	70- 125	
1,2-Dichloropropane	50.0	50.9	102	75- 125	
cis-1,3-Dichloropropene	50.0	48.1	96	70- 130	
trans-1,3-Dichloropropene	50.0	53.2	106	55- 140	
Ethylbenzene	50.0	55.8	112	75- 125	
2-Hexanone	50.0	76.1	152*	55- 130	a

(Continued on next page)

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53
End Cal Date : 22-MAY-2007 08:18
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\qpitpa02\d\chem\722.i\5pt.b\8270b.m
Last Edit : 23-May-2007 11:12 bungardf
Curve Type : Average

Calibration File Names:
Level 1: \\qpitpa02\d\chem\722.i\5pt.b\F05220C2.D
Level 2: \\qpitpa02\d\chem\722.i\5pt.b\F05220C3.D
Level 3: \\qpitpa02\d\chem\722.i\5pt.b\F05220C1.D
Level 4: \\qpitpa02\d\chem\722.i\5pt.b\F05220C4.D
Level 5: \\qpitpa02\d\chem\722.i\5pt.b\F05220C5.D
Level 6: \\qpitpa02\d\chem\722.i\5pt.b\F05220C6.D

Compound	20.000 Level 1	40.000 Level 2	50.000 Level 3	80.000 Level 4	120.000 Level 5	160.000 Level 6	RRF	% RSD	
225 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
226 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
224 Pentachloroanisole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
203 3&4 Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
198 1,4-Dioxane	0.80783	0.85090	0.78322	0.79489	0.77457	0.74499	0.79273	4.483	
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Pyridine	2.09834	2.06140	2.00258	1.95954	1.90499	1.84664	1.97892	4.792	
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
200 Sulfotepp	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
10 N-Nitrosodimethylamine	1.07611	1.09582	1.02781	1.04709	1.02654	0.98797	1.04356	3.694	
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
12 3-Chloropropionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 Methyl methanesulfonate	1.12369	1.14981	1.07439	1.09961	1.03304	1.00899	1.08159	4.967	
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
220 Benzaldehyde	1.07180	0.91144	0.65148	0.67251	0.47508	0.38609	0.69473	37.259	<-
21 Aniline	1.60986	1.55481	1.47089	1.48016	1.45115	1.43072	1.49960	4.572	
22 Phenol	1.41866	1.44790	1.46942	1.45389	1.50968	1.58503	1.48076	3.995	
23 bis(2-Chloroethyl)ether	1.06035	1.03536	1.04891	1.03121	1.07674	1.12280	1.06256	3.190	
24 2-Chlorophenol	1.29291	1.31277	1.31634	1.29511	1.37421	1.42938	1.33679	4.046	
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 1,3-Dichlorobenzene	1.61658	1.61194	1.60833	1.63125	1.73334	1.78936	1.66513	4.624	
27 1,4-Dichlorobenzene	1.64545	1.61147	1.60397	1.66605	1.73463	1.80389	1.67758	4.630	
28 1,2-Dichlorobenzene	1.47777	1.46905	1.48051	1.51518	1.60528	1.69452	1.54039	5.893	

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53
End Cal Date : 22-MAY-2007 08:18
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\qpitpa02\d\chem\722.i\5pt.b\8270b.m
Last Edit : 23-May-2007 11:12 bungardf
Curve Type : Average

	Compound	20.000 Level 1	40.000 Level 2	50.000 Level 3	80.000 Level 4	120.000 Level 5	160.000 Level 6	RRF	% RSD	
64	Hexachlorocyclopentadiene	0.60712	0.66723	0.61996	0.69838	0.79025	0.83299	0.70266	13.028	
65	1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
66	2,4,6-Trichlorophenol	0.45357	0.47219	0.45452	0.50427	0.55472	0.59912	0.50640	11.712	
67	2,4,5-Trichlorophenol	0.48704	0.50046	0.48099	0.53433	0.59195	0.64911	0.54065	12.403	
68	1,2,3,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
222	1,1'-Biphenyl	1.72145	1.89855	1.49742	2.05628	2.25971	2.38909	1.97041	16.942	<-
69	1,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
70	2-Chloronaphthalene	1.16089	1.18037	1.14238	1.24444	1.37788	1.50250	1.26808	11.294	
219	1-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71	Isosafrole 1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
M 188	Isosafrole, total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
72	Isosafrole 2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
73	2-Nitroaniline	0.34926	0.34788	0.33788	0.36522	0.37390	0.38990	0.36067	5.353	
74	1,2,3,4-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
75	1,4-Naphthoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
76	Dimethylphthalate	1.45567	1.44136	1.40659	1.52910	1.59766	1.71326	1.52394	7.571	
77	m-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
78	2,6-Dinitrotoluene	0.31544	0.31326	0.31624	0.33918	0.36132	0.39499	0.34007	9.630	
79	Acenaphthylene	1.66120	1.70401	1.66303	1.82486	1.96182	2.09688	1.81863	9.839	
80	1,2-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
81	3-Nitroaniline	0.27480	0.26572	0.27033	0.28792	0.29402	0.32045	0.28554	7.067	
82	Acenaphthene	1.07553	1.08940	1.09664	1.22547	1.35570	1.52906	1.22863	14.860	
83	2,4-Dinitrophenol	0.09951	0.13888	0.16804	0.21393	0.24304	0.29476	0.19303	37.062	<-
84	Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
85	4-Nitrophenol	0.38190	0.38201	0.38461	0.40746	0.41035	0.44886	0.40253	6.478	
86	Dibenzofuran	1.72579	1.75329	1.70627	1.84469	1.98057	2.11357	1.85403	8.760	
87	2,4-Dinitrotoluene	0.43883	0.42436	0.43152	0.46743	0.47173	0.52426	0.45969	8.052	
88	2,3,4,6-Tetrachlorophenol	0.39149	0.43073	0.43780	0.52983	0.55654	0.63042	0.49613	18.352	<-
89	1-Naphthylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
90	Zinophos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
91	2,3,5,6-Tetrachlorophenol	0.33483	0.40425	0.39276	0.49451	0.54642	0.63361	0.46773	23.757	<-
92	2-Naphthylamine	0.69675	0.67067	0.80611	0.59253	0.44331	0.38924	0.59977	26.453	<-
93	Diethylphthalate	1.47174	1.44266	1.41667	1.54458	1.59866	1.70892	1.53054	7.205	
94	Fluorene	1.44262	1.48943	1.47987	1.74136	1.94088	2.18480	1.71316	17.565	<-
95	4-Chlorophenyl-phenylether	0.86962	0.89279	0.88318	1.01591	1.12463	1.27777	1.01065	16.222	<-
96	4-Nitroaniline	0.32511	0.32715	0.33874	0.38464	0.41483	0.43388	0.37076	12.715	

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: C7E020142 WO #: JV37P1C3
BATCH: 7123048

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
gamma-BHC (Lindane)	40.9	0.69	27.4	65	60- 125	
Heptachlor	40.9	ND	37.5	92	50- 140	
Aldrin	40.9	ND	38.8	95	45- 140	
Dieldrin	40.9	10	44.2	83	65- 125	
Endrin	40.9	ND	43.5	106	60- 135	
4,4'-DDT	40.9	2.2	49.5	116	45- 140	
alpha-BHC	40.9	ND	28.7	70	60- 125	
beta-BHC	40.9	ND	36.2	88	60- 125	
delta-BHC	40.9	0.96	36.8	88	55- 130	
Heptachlor epoxide	40.9	1.5	37.4	88	65- 130	
Endosulfan I	40.9	ND	35.5	87	15- 135	
4,4'-DDE	40.9	2.4	53.2	124	70- 125	
Endosulfan II	40.9	ND	34.5	84	35- 140	
4,4'-DDD	40.9	0.47	33.0	79	30- 135	
Endosulfan sulfate	40.9	ND	7.48	18*	60- 135	a
Methoxychlor	40.9	1.0	36.5	87	55- 145	
Endrin ketone	40.9	ND	35.0	86	65- 135	
Endrin aldehyde	40.9	0.52	17.3	41	35- 145	
alpha-Chlordane	40.9	ND	36.3	89	65- 120	
gamma-Chlordane	40.9	1.2	37.7	89	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 20 outside limits

COMMENTS:

FORM III

SW846 8081A MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: Tetra Tech NUS, Inc

Lab Code: STLPIT SDG No:

Matrix Spike ID: LAB MS/MSD Level: (low/med) LOW

Lot #: C7E020142 WO #: JV37P1C4
BATCH: 7123048

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
gamma-BHC (Lindane)	40.9	27.3	65	0.40	36	60- 125	
Heptachlor	40.9	37.6	92	0.19	44	50- 140	
Aldrin	40.9	38.8	95	0.0	40	45- 140	
Dieldrin	40.9	44.5	84	0.85	33	65- 125	
Endrin	40.9	43.5	106	0.050	38	60- 135	
4,4'-DDT	40.9	48.7	114	1.8	42	45- 140	
alpha-BHC	40.9	28.8	70	0.42	40	60- 125	
beta-BHC	40.9	36.4	89	0.57	43	60- 125	
delta-BHC	40.9	36.5	87	0.77	34	55- 130	
Heptachlor epoxide	40.9	37.8	89	1.1	43	65- 130	
Endosulfan I	40.9	35.7	87	0.31	41	15- 135	
4,4'-DDE	40.9	53.2	124	0.040	39	70- 125	
Endosulfan II	40.9	34.6	85	0.24	27	35- 140	
4,4'-DDD	40.9	33.3	80	1.0	35	30- 135	
Endosulfan sulfate	40.9	7.36	18*	1.7	34	60- 135	a
Methoxychlor	40.9	35.7	85	2.3	41	55- 145	
Endrin ketone	40.9	34.6	85	1.3	32	65- 135	
Endrin aldehyde	40.9	17.7	42	2.1	29	35- 145	
alpha-Chlordane	40.9	36.4	89	0.16	65	65- 120	
gamma-Chlordane	40.9	37.8	89	0.090	36	65- 125	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 1 out of 20 outside limits

COMMENTS:

FORM III