Quanterra
Environmental Services

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ANALYTICAL REPORT

PROJECT NO. 768145.16000002

WVOW-Supplementary BGI

Lot #: H8K090120

Kim Napier

IT Corp - W. Virg. Ord. Works
312 Directors Drive,TN 37923

QUANTERRA INCORPORATED

Project Manager

December 18, 1998

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SAMPLE SUMMARY

H8K090120

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CN8QF	001	9300	11/07/98	11:3
CN8QH	002	9310	11/07/98	11:0

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

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ANALYTICAL METHODS SUMMARY

H8K090120

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitroaromatics and Nitramines by HPLC	SW846 8330
Organochlorine Pesticides	SW846 8081A
PCBs	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

PROJECT NARRATIVE
H8K090120

The results reported herein are applicable to the samples submitted for analysis only.

Sample Receipt

There were no problems with the condition of the samples received.

Sample 9310 was analyzed for percent chlorine (reported as chloride) by Galbraith Laboratories, Inc. in Knoxville, Tennessee, 37950. A coy of their report is included.

Quality Control

All holding times and QC criteria were met.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Quanterra Incorporated, Knoxville Laboratory maintains the following certifications, approvals and accreditations: California ELAP Cert. #2100, Connecticut DPH Cert. #PH-0233, Florida DOH SDWA Cert. #87293, Florida DOH Environmental Water Cert. #E87177, Florida DEP CompQAP #880566, Georgia EPD by US EPA Region IV, Hawaii DOH, Kentucky DEP Lab ID #90101, Maryland DHMH Cert. #277, Massachusetts Cert. #M-TN009, New York DOH Lab #10781, North Carolina DEHNR Cert. #64, North Dakota DOHCL Cert. #R-134, Ohio EPA VAP #CL0059, Oklahoma DEQ ID #9415, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Tennessee DEC UST, Utah DOH Cust. ID QUAN#, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, AALA Cert. #486.01, US Army Corps of Engineers, Naval Facilities Engineering Service Center, and USDA Soil Permit #S-3929. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9300

TCLP GC/MS Volatiles

Lot-Sample #...: H8K090120-001 Work Order #...: CN8QF103 Matrix.....: SOLID
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Leach Date.....: 11/12/98 Prep Date.....: 11/13/98 Analysis Date..: 11/13/98
Leach Batch #..: P831605 Prep Batch #...: 8317224
Dilution Factor: 1
% Moisture.....: Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.050	mg/L
Carbon tetrachloride	ND	0.050	mg/L
Chlorobenzene	ND	0.050	mg/L
Chloroform	ND	0.050	mg/L
1,2-Dichloroethane	ND	0.050	mg/L
1,1-Dichloroethylene	ND	0.050	mg/L
Methyl ethyl ketone	ND	0.20	mg/L
Tetrachloroethylene	ND	0.050	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.10	mg/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(70 - 130)
1,2-Dichloroethane-d4	85	(70 - 130)
Toluene-d8	102	(70 - 130)
Bromofluorobenzene	93	(70 - 130)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

GC/MS Volatiles

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH105 Matrix.....: WATER
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/13/98 Analysis Date..: 11/13/98
Prep Batch #...: 8317133
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.0	ug/L
Bromomethane	**0.14 J**	**2.0**	**ug/L**
Vinyl chloride	ND	2.0	ug/L
Chloroethane	ND	2.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	**8.4 J**	**10**	**ug/L**
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	**1.4 J**	**5.0**	**ug/L**
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
2-Hexanone	ND	5.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	**0.14 J**	**1.0**	**ug/L**
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	**0.37 J**	**1.0**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(67 - 130)
1,2-Dichloroethane-d4	92	(67 - 130)
Toluene-d8	100	(70 - 130)
Bromofluorobenzene	98	(70 - 130)

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

GC/MS Volatiles

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH105 Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 Work Order #...: CNEEK101 Matrix.....: WATER
MB Lot-Sample #: H8K130000-133

Prep Date.....: 11/13/98
Analysis Date..: 11/13/98 Prep Batch #...: 8317133
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(67 - 130)
1,2-Dichloroethane-d4	98	(67 - 130)
Toluene-d8	98	(70 - 130)
Bromofluorobenzene	96	(70 - 130)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 Work Order #...: CNEEK101 Matrix.....: WATER

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 **Work Order #...:** CNEEK102 **Matrix.....:** WATER
LCS Lot-Sample#: H8K130000-133
Prep Date.....: 11/13/98 **Analysis Date..:** 11/13/98
Prep Batch #...: 8317133
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.85**	**ug/L**	**99**	**SW846 8260B**
Benzene	**10.0**	**9.21**	**ug/L**	**92**	**SW846 8260B**
Trichloroethene	**10.0**	**9.35**	**ug/L**	**93**	**SW846 8260B**
Toluene	**10.0**	**9.13**	**ug/L**	**91**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.19**	**ug/L**	**92**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	94	(67 - 130)
Toluene-d8	99	(70 - 130)
Bromofluorobenzene	91	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 **Work Order #...:** CNEEK102 **Matrix.....:** WATER
LCS Lot-Sample#: H8K130000-133
Prep Date.....: 11/13/98 **Analysis Date..:** 11/13/98
Prep Batch #...: 8317133
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**99**	**(70 - 137)**	**SW846 8260B**
Benzene	**92**	**(70 - 130)**	**SW846 8260B**
Trichloroethene	**93**	**(70 - 130)**	**SW846 8260B**
Toluene	**91**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**92**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(67 - 130)
1,2-Dichloroethane-d4	94	(67 - 130)
Toluene-d8	99	(70 - 130)
Bromofluorobenzene	91	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 Work Order #...: CNEP0102 Matrix.....: SOLID
MB Lot-Sample #: H8K130000-224

Prep Date.....: 11/13/98
Analysis Date..: 11/13/98 Prep Batch #...: 8317224
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260B
Chlorobenzene	ND	0.050	mg/L	SW846 8260B
Chloroform	ND	0.050	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260B
Trichloroethylene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.10	mg/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(70 - 130)
1,2-Dichloroethane-d4	83	(70 - 130)
Toluene-d8	98	(70 - 130)
Bromofluorobenzene	93	(70 - 130)

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 Work Order #...: CNEP0101 Matrix.....: SOLID
LCS Lot-Sample#: H8K130000-224
Prep Date.....: 11/13/98 Analysis Date..: 11/13/98
Prep Batch #...: 8317224
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	**0.250**	**0.199**	**mg/L**	**80**	**SW846 8260B**
1,1-Dichloroethylene	**0.250**	**0.285**	**mg/L**	**114**	**SW846 8260B**
Chloroform	**0.250**	**0.243**	**mg/L**	**97**	**SW846 8260B**
1,2-Dichloroethane	**0.250**	**0.237**	**mg/L**	**95**	**SW846 8260B**
Methyl ethyl ketone	**0.500**	**0.574**	**mg/L**	**115**	**SW846 8260B**
Carbon tetrachloride	**0.250**	**0.232**	**mg/L**	**93**	**SW846 8260B**
Trichloroethylene	**0.250**	**0.282**	**mg/L**	**113**	**SW846 8260B**
Benzene	**0.250**	**0.256**	**mg/L**	**102**	**SW846 8260B**
Tetrachloroethylene	**0.250**	**0.284**	**mg/L**	**114**	**SW846 8260B**
Chlorobenzene	**0.250**	**0.271**	**mg/L**	**109**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(70 - 130)
1,2-Dichloroethane-d4	88	(70 - 130)
Toluene-d8	97	(70 - 130)
Bromofluorobenzene	93	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H8K090120 Work Order #...: CNEP0101 Matrix.....: SOLID
LCS Lot-Sample#: H8K130000-224
Prep Date.....: 11/13/98 Analysis Date..: 11/13/98
Prep Batch #...: 8317224
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	**80**	**(62 - 141)**	**SW846 8260B**
1,1-Dichloroethylene	**114**	**(70 - 130)**	**SW846 8260B**
Chloroform	**97**	**(70 - 130)**	**SW846 8260B**
1,2-Dichloroethane	**95**	**(70 - 130)**	**SW846 8260B**
Methyl ethyl ketone	**115**	**(41 - 135)**	**SW846 8260B**
Carbon tetrachloride	**93**	**(70 - 131)**	**SW846 8260B**
Trichloroethylene	**113**	**(70 - 130)**	**SW846 8260B**
Benzene	**102**	**(70 - 130)**	**SW846 8260B**
Tetrachloroethylene	**114**	**(70 - 130)**	**SW846 8260B**
Chlorobenzene	**109**	**(70 - 130)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(70 - 130)
1,2-Dichloroethane-d4	88	(70 - 130)
Toluene-d8	97	(70 - 130)
Bromofluorobenzene	93	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9300

TCLP GC/MS Semivolatiles

Lot-Sample #...: H8K090120-001 Work Order #...: CN8QF104 Matrix.....: SOLID
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Leach Date.....: 11/09/98 Prep Date.....: 11/11/98 Analysis Date..: 11/15/98
Leach Batch #..: P831304 Prep Batch #...: 8315188
Dilution Factor: 1
% Moisture.....: Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Cresol	ND	0.050	mg/L
m-Cresol & p-Cresol	ND	0.10	mg/L
1,4-Dichlorobenzene	ND	0.050	mg/L
2,4-Dinitrotoluene	ND	0.050	mg/L
Hexachlorobenzene	ND	0.050	mg/L
Hexachlorobutadiene	ND	0.050	mg/L
Hexachloroethane	ND	0.050	mg/L
Nitrobenzene	ND	0.050	mg/L
Pentachlorophenol	ND	0.25	mg/L
Pyridine	ND	0.10	mg/L
2,4,5-Trichlorophenol	ND	0.050	mg/L
2,4,6-Trichlorophenol	ND	0.050	mg/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(27 - 106)
Phenol-d5	87	(27 - 111)
Nitrobenzene-d5	97	(37 - 115)
2-Fluorobiphenyl	67	(43 - 116)
2,4,6-Tribromophenol	99	(27 - 127)
Terphenyl-d14	89	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

GC/MS Semivolatiles

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH101 Matrix.....: WATER
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/11/98 Analysis Date..: 11/15/98
Prep Batch #...: 8315191
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Phenol	**86 B**	**10**	**ug/L**
bis(2-Chloroethyl) ether	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
2-Methylphenol	**10**	**10**	**ug/L**
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Isophorone	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	10	ug/L
bis(2-Chloroethoxy) methane	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
1,2,4-Trichlorobenzene	ND	10	ug/L
Naphthalene	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	50	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Nitroaniline	ND	50	ug/L
Dimethyl phthalate	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
3-Nitroaniline	ND	50	ug/L
Acenaphthene	ND	10	ug/L
2,4-Dinitrophenol	ND	50	ug/L
4-Nitrophenol	ND	50	ug/L
Dibenzofuran	ND	10	ug/L
2,4-Dinitrotoluene	ND	10	ug/L

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

GC/MS Semivolatiles

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH101 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Diethyl phthalate	ND	10	ug/L
4-Chlorophenyl phenyl ether	ND	10	ug/L
Fluorene	ND	10	ug/L
4-Nitroaniline	ND	50	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
4-Bromophenyl phenyl ether	ND	10	ug/L
Hexachlorobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Anthracene	ND	10	ug/L
Carbazole	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	50	ug/L
Benzo(a)anthracene	ND	10	ug/L
Chrysene	ND	10	ug/L
bis(2-Ethylhexyl) phthalate	ND	10	ug/L
Di-n-octyl phthalate	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(27 - 106)
Phenol-d5	85	(27 - 111)
Nitrobenzene-d5	102	(37 - 115)
2-Fluorobiphenyl	73	(43 - 116)
2,4,6-Tribromophenol	104	(27 - 127)
Terphenyl-d14	53	(33 - 141)

NOTE(S):

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

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNATP101 **Matrix.....:** SOLID
MB Lot-Sample #: H8K110000-188

Prep Date.....: 11/11/98
Analysis Date..: 11/16/98 **Prep Batch #...:** 8315188
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270C
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270C
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270C
Hexachloroethane	ND	0.050	mg/L	SW846 8270C
Nitrobenzene	ND	0.050	mg/L	SW846 8270C
Pentachlorophenol	ND	0.25	mg/L	SW846 8270C
Pyridine	ND	0.10	mg/L	SW846 8270C
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270C
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(27 - 106)
Phenol-d5	82	(27 - 111)
Nitrobenzene-d5	94	(37 - 115)
2-Fluorobiphenyl	69	(43 - 116)
2,4,6-Tribromophenol	98	(27 - 127)
Terphenyl-d14	92	(33 - 141)

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CN8QF10W-MS Matrix.....: SOLID
MS Lot-Sample #: H8K090120-001 CN8QF10X-MSD
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Leach Date.....: 11/09/98 Prep Date.....: 11/11/98 Analysis Date..: 11/15/98
Leach Batch #..: P831304 Prep Batch #...: 8315188
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.250	0.203	mg/L	81		SW846 8270C
	ND	0.250	0.194	mg/L	78	4.5	SW846 8270C
m-Cresol & p-Cresol	ND	0.500	0.370	mg/L	74		SW846 8270C
	ND	0.500	0.456	mg/L	91	21	SW846 8270C
1,4-Dichlorobenzene	ND	0.250	0.179	mg/L	72		SW846 8270C
	ND	0.250	0.180	mg/L	72	0.55	SW846 8270C
2,4-Dinitrotoluene	ND	0.250	0.257	mg/L	103		SW846 8270C
	ND	0.250	0.249	mg/L	100	3.2	SW846 8270C
Hexachlorobenzene	ND	0.250	0.242	mg/L	97		SW846 8270C
	ND	0.250	0.247	mg/L	99	2.0	SW846 8270C
Hexachlorobutadiene	ND	0.250	0.176	mg/L	70		SW846 8270C
	ND	0.250	0.178	mg/L	71	1.1	SW846 8270C
Hexachloroethane	ND	0.250	0.202	mg/L	81		SW846 8270C
	ND	0.250	0.203	mg/L	81	0.49	SW846 8270C
Nitrobenzene	ND	0.250	0.252	mg/L	101		SW846 8270C
	ND	0.250	0.240	mg/L	96	4.9	SW846 8270C
Pentachlorophenol	ND	0.250	0.217	mg/L	87		SW846 8270C
	ND	0.250	0.218	mg/L	87	0.46	SW846 8270C
Pyridine	ND	0.250	0.216	mg/L	86		SW846 8270C
	ND	0.250	0.205	mg/L	82	5.2	SW846 8270C
2,4,5-Trichlorophenol	ND	0.250	0.210	mg/L	84		SW846 8270C
	ND	0.250	0.210	mg/L	84	0.0	SW846 8270C
2,4,6-Trichlorophenol	ND	0.250	0.197	mg/L	79		SW846 8270C
	ND	0.250	0.193	mg/L	77	2.0	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(27 - 106)
	68	(27 - 106)
Phenol-d5	91	(27 - 111)
	86	(27 - 111)
Nitrobenzene-d5	102	(37 - 115)
	98	(37 - 115)
2-Fluorobiphenyl	76	(43 - 116)
	75	(43 - 116)
2,4,6-Tribromophenol	100	(27 - 127)
	100	(27 - 127)
Terphenyl-d14	88	(33 - 141)
	90	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: H8K090120
MS Lot-Sample #: H8K090120-001
Date Sampled...: 11/07/98
Leach Date.....: 11/09/98
Leach Batch #..: P831304
Dilution Factor: 1

Work Order #...: CN8QF10W-MS
CN8QF10X-MSD
Date Received..: 11/09/98
Prep Date.....: 11/11/98
Prep Batch #...: 8315188

Matrix.....: SOLID
Analysis Date..: 11/15/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	81	(37 - 119)			SW846 8270C
	78	(37 - 119)	4.5	(0-37)	SW846 8270C
m-Cresol & p-Cresol	74	(28 - 116)			SW846 8270C
	91	(28 - 116)	21	(0-32)	SW846 8270C
1,4-Dichlorobenzene	72	(43 - 100)			SW846 8270C
	72	(43 - 100)	0.55	(0-37)	SW846 8270C
2,4-Dinitrotoluene	103	(34 - 129)			SW846 8270C
	100	(34 - 129)	3.2	(0-28)	SW846 8270C
Hexachlorobenzene	97	(44 - 129)			SW846 8270C
	99	(44 - 129)	2.0	(0-25)	SW846 8270C
Hexachlorobutadiene	70	(34 - 101)			SW846 8270C
	71	(34 - 101)	1.1	(0-24)	SW846 8270C
Hexachloroethane	81	(36 - 100)			SW846 8270C
	81	(36 - 100)	0.49	(0-39)	SW846 8270C
Nitrobenzene	101	(43 - 112)			SW846 8270C
	96	(43 - 112)	4.9	(0-26)	SW846 8270C
Pentachlorophenol	87	(10 - 138)			SW846 8270C
	87	(10 - 138)	0.46	(0-44)	SW846 8270C
Pyridine	86	(10 - 138)			SW846 8270C
	82	(10 - 138)	5.2	(0-61)	SW846 8270C
2,4,5-Trichlorophenol	84	(35 - 125)			SW846 8270C
	84	(35 - 125)	0.0	(0-47)	SW846 8270C
2,4,6-Trichlorophenol	79	(43 - 109)			SW846 8270C
	77	(43 - 109)	2.0	(0-29)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(27 - 106)
	68	(27 - 106)
Phenol-d5	91	(27 - 111)
	86	(27 - 111)
Nitrobenzene-d5	102	(37 - 115)
	98	(37 - 115)
2-Fluorobiphenyl	76	(43 - 116)
	75	(43 - 116)
2,4,6-Tribromophenol	100	(27 - 127)
	100	(27 - 127)
Terphenyl-d14	88	(33 - 141)
	90	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CNATP102 Matrix.....: SOLID
LCS Lot-Sample#: H8K110000-188
Prep Date.....: 11/11/98 Analysis Date..: 11/15/98
Prep Batch #...: 8315188
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,4-Dichlorobenzene	**0.250**	**0.174**	**mg/L**	**70**	**SW846 8270C**
2,4-Dinitrotoluene	**0.250**	**0.247**	**mg/L**	**99**	**SW846 8270C**
Hexachlorobenzene	**0.250**	**0.245**	**mg/L**	**98**	**SW846 8270C**
Hexachlorobutadiene	**0.250**	**0.160**	**mg/L**	**64**	**SW846 8270C**
Hexachloroethane	**0.250**	**0.192**	**mg/L**	**77**	**SW846 8270C**
Nitrobenzene	**0.250**	**0.242**	**mg/L**	**97**	**SW846 8270C**
Pentachlorophenol	**0.250**	**0.214**	**mg/L**	**86**	**SW846 8270C**
Pyridine	**0.250**	**0.211**	**mg/L**	**84**	**SW846 8270C**
2,4,5-Trichlorophenol	**0.250**	**0.199**	**mg/L**	**80**	**SW846 8270C**
2,4,6-Trichlorophenol	**0.250**	**0.193**	**mg/L**	**77**	**SW846 8270C**
o-Cresol	**0.250**	**0.191**	**mg/L**	**76**	**SW846 8270C**
m-Cresol & p-Cresol	**0.500**	**0.384**	**mg/L**	**77**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(27 - 106)
Phenol-d5	89	(27 - 111)
Nitrobenzene-d5	100	(37 - 115)
2-Fluorobiphenyl	78	(43 - 116)
2,4,6-Tribromophenol	99	(27 - 127)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CNATP102 Matrix.....: SOLID
LCS Lot-Sample#: H8K110000-188
Prep Date.....: 11/11/98 Analysis Date..: 11/15/98
Prep Batch #...: 8315188
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,4-Dichlorobenzene	**70**	**(43 - 100)**	**SW846 8270C**
2,4-Dinitrotoluene	**99**	**(34 - 129)**	**SW846 8270C**
Hexachlorobenzene	**98**	**(44 - 129)**	**SW846 8270C**
Hexachlorobutadiene	**64**	**(34 - 101)**	**SW846 8270C**
Hexachloroethane	**77**	**(36 - 100)**	**SW846 8270C**
Nitrobenzene	**97**	**(43 - 112)**	**SW846 8270C**
Pentachlorophenol	**86**	**(10 - 123)**	**SW846 8270C**
Pyridine	**84**	**(10 - 116)**	**SW846 8270C**
2,4,5-Trichlorophenol	**80**	**(35 - 125)**	**SW846 8270C**
2,4,6-Trichlorophenol	**77**	**(43 - 109)**	**SW846 8270C**
o-Cresol	**76**	**(37 - 119)**	**SW846 8270C**
m-Cresol & p-Cresol	**77**	**(28 - 116)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(27 - 106)
Phenol-d5	89	(27 - 111)
Nitrobenzene-d5	100	(37 - 115)
2-Fluorobiphenyl	78	(43 - 116)
2,4,6-Tribromophenol	99	(27 - 127)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNAV4101 **Matrix.....:** WATER
MB Lot-Sample #: H8K110000-191

Prep Date.....: 11/11/98
Analysis Date..: 11/15/98 **Prep Batch #...:** 8315191
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	**15**	**10**	**ug/L**	**SW846 8270C**
bis(2-Chloroethyl) ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichlorobenzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CNAV4101 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Fluorene	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(27 - 106)
Phenol-d5	83	(27 - 111)
Nitrobenzene-d5	98	(37 - 115)
2-Fluorobiphenyl	67	(43 - 116)
2,4,6-Tribromophenol	93	(27 - 127)
Terphenyl-d14	89	(33 - 141)

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CNAV4102 Matrix.....: WATER
LCS Lot-Sample#: H8K110000-191
Prep Date.....: 11/11/98 Analysis Date..: 11/15/98
Prep Batch #...: 8315191
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**94.4**	**ug/L**	**94**	**SW846 8270C**
2-Chlorophenol	**100**	**68.9**	**ug/L**	**69**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**47.9**	**ug/L**	**48**	**SW846 8270C**
N-Nitrosodi-n-propylamine	**100**	**106**	**ug/L**	**106**	**SW846 8270C**
1,2,4-Trichlorobenzene	**100**	**64.3**	**ug/L**	**64**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**92.2**	**ug/L**	**92**	**SW846 8270C**
Acenaphthene	**100**	**86.6**	**ug/L**	**87**	**SW846 8270C**
4-Nitrophenol	**100**	**128**	**ug/L**	**128**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**105**	**ug/L**	**105**	**SW846 8270C**
Pentachlorophenol	**100**	**90.7**	**ug/L**	**91**	**SW846 8270C**
Pyrene	**100**	**79.8**	**ug/L**	**80**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(27 - 106)
Phenol-d5	84	(27 - 111)
Nitrobenzene-d5	94	(37 - 115)
2-Fluorobiphenyl	74	(43 - 116)
2,4,6-Tribromophenol	107	(27 - 127)
Terphenyl-d14	77	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNAV4102 **Matrix.....:** WATER
LCS Lot-Sample#: H8K110000-191
Prep Date.....: 11/11/98 **Analysis Date..:** 11/15/98
Prep Batch #...: 8315191
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**94**	**(28 - 113)**	**SW846 8270C**
2-Chlorophenol	**69**	**(52 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**48**	**(40 - 100)**	**SW846 8270C**
N-Nitrosodi-n-propylamine	**106**	**(22 - 125)**	**SW846 8270C**
1,2,4-Trichlorobenzene	**64**	**(49 - 100)**	**SW846 8270C**
4-Chloro-3-methylphenol	**92**	**(54 - 110)**	**SW846 8270C**
Acenaphthene	**87**	**(58 - 113)**	**SW846 8270C**
4-Nitrophenol	**128**	**(18 - 135)**	**SW846 8270C**
2,4-Dinitrotoluene	**105**	**(59 - 120)**	**SW846 8270C**
Pentachlorophenol	**91**	**(20 - 123)**	**SW846 8270C**
Pyrene	**80**	**(54 - 122)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	61	(27 - 106)
Phenol-d5	84	(27 - 111)
Nitrobenzene-d5	94	(37 - 115)
2-Fluorobiphenyl	74	(43 - 116)
2,4,6-Tribromophenol	107	(27 - 127)
Terphenyl-d14	77	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

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IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

GC Semivolatiles

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH102 Matrix.....: WATER
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/11/98 Analysis Date..: 11/17/98
Prep Batch #...: 8315183
Dilution Factor: 1 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	0.050	ug/L
beta-BHC	ND	0.050	ug/L
delta-BHC	ND	0.050	ug/L
gamma-BHC (Lindane)	ND	0.050	ug/L
Heptachlor	ND	0.050	ug/L
Aldrin	ND	0.050	ug/L
Heptachlor epoxide	ND	0.050	ug/L
Endosulfan I	ND	0.050	ug/L
Dieldrin	ND	0.050	ug/L
4,4'-DDE	ND	0.050	ug/L
Endrin	ND	0.050	ug/L
Endosulfan II	ND	0.050	ug/L
4,4'-DDD	ND	0.050	ug/L
Endosulfan sulfate	ND	0.050	ug/L
4,4'-DDT	ND	0.050	ug/L
Methoxychlor	ND	0.10	ug/L
Endrin ketone	ND	0.050	ug/L
Endrin aldehyde	ND	0.050	ug/L
alpha-Chlordane	ND	0.050	ug/L
gamma-Chlordane	ND	0.050	ug/L
Toxaphene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(40 - 139)
Decachlorobiphenyl	40	(30 - 152)

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METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CNAT2101 Matrix.....: WATER
MB Lot-Sample #: H8K110000-183

Prep Date.....: 11/11/98
Analysis Date..: 11/18/98 Prep Batch #...: 8315183
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Aldrin	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
Endrin ketone	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(40 - 139)
Decachlorobiphenyl	87	(30 - 152)

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNAT2102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8K110000-183 CNAT2103-LCSD
Prep Date.....: 11/11/98 **Analysis Date..:** 11/18/98
Prep Batch #...: 8315183
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
gamma-BHC (Lindane)	**0.500**	**0.510**	**ug/L**	**102**		**SW846 8081A**
	0.500	**0.475**	**ug/L**	**95**	**7.2**	**SW846 8081A**
Heptachlor	**0.500**	**0.458**	**ug/L**	**92**		**SW846 8081A**
	0.500	**0.379**	**ug/L**	**76**	**19**	**SW846 8081A**
Aldrin	**0.500**	**0.452**	**ug/L**	**90**		**SW846 8081A**
	0.500	**0.483**	**ug/L**	**97**	**6.6**	**SW846 8081A**
Dieldrin	**1.00**	**0.950**	**ug/L**	**95**		**SW846 8081A**
	1.00	**0.992**	**ug/L**	**99**	**4.3**	**SW846 8081A**
Endrin	**1.00**	**0.957**	**ug/L**	**96**		**SW846 8081A**
	1.00	**0.999**	**ug/L**	**100**	**4.3**	**SW846 8081A**
4,4'-DDT	**1.00**	**0.986**	**ug/L**	**99**		**SW846 8081A**
	1.00	**1.03**	**ug/L**	**103**	**4.0**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(40 - 139)
	95	(40 - 139)
Decachlorobiphenyl	77	(30 - 152)
	76	(30 - 152)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNAT2102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8K110000-183 CNAT2103-LCSD
Prep Date.....: 11/11/98 **Analysis Date..:** 11/18/98
Prep Batch #...: 8315183
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**102**	**(61 - 143)**			**SW846 8081A**
	95	**(61 - 143)**	**7.2**	**(0-20)**	**SW846 8081A**
Heptachlor	**92**	**(54 - 131)**			**SW846 8081A**
	76	**(54 - 131)**	**19**	**(0-25)**	**SW846 8081A**
Aldrin	**90**	**(61 - 115)**			**SW846 8081A**
	97	**(61 - 115)**	**6.6**	**(0-49)**	**SW846 8081A**
Dieldrin	**95**	**(62 - 129)**			**SW846 8081A**
	99	**(62 - 129)**	**4.3**	**(0-20)**	**SW846 8081A**
Endrin	**96**	**(47 - 137)**			**SW846 8081A**
	100	**(47 - 137)**	**4.3**	**(0-20)**	**SW846 8081A**
4,4'-DDT	**99**	**(60 - 121)**			**SW846 8081A**
	103	**(60 - 121)**	**4.0**	**(0-52)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(40 - 139)
	95	(40 - 139)
Decachlorobiphenyl	77	(30 - 152)
	76	(30 - 152)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

GC Semivolatiles

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH103 Matrix.....: WATER
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/11/98 Analysis Date..: 11/17/98
Prep Batch #...: 8315185
Dilution Factor: 1 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aroclor 1016	ND	1.0	ug/L
Aroclor 1221	ND	1.0	ug/L
Aroclor 1232	ND	1.0	ug/L
Aroclor 1242	ND	1.0	ug/L
Aroclor 1248	ND	1.0	ug/L
Aroclor 1254	ND	1.0	ug/L
Aroclor 1260	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	83	(30 - 133)
Decachlorobiphenyl	42	(30 - 139)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H8K090120 Work Order #...: CNATF101 Matrix.....: WATER
MB Lot-Sample #: H8K110000-185

Prep Date.....: 11/11/98
Analysis Date..: 11/17/98 Prep Batch #...: 8315185
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	1.0	ug/L	SW846 8082
Aroclor 1221	ND	1.0	ug/L	SW846 8082
Aroclor 1232	ND	1.0	ug/L	SW846 8082
Aroclor 1242	ND	1.0	ug/L	SW846 8082
Aroclor 1248	ND	1.0	ug/L	SW846 8082
Aroclor 1254	ND	1.0	ug/L	SW846 8082
Aroclor 1260	ND	1.0	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(30 - 133)
Decachlorobiphenyl	70	(30 - 139)

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNATF102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8K110000-185 CNATF103-LCSD
Prep Date.....: 11/11/98 **Analysis Date..:** 11/17/98
Prep Batch #...: 8315185
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Aroclor 1016	**10.0**	**8.53**	**ug/L**	**85**		**SW846 8082**
	10.0	**9.80**	**ug/L**	**98**	**14**	**SW846 8082**
Aroclor 1260	**10.0**	**8.18**	**ug/L**	**82**		**SW846 8082**
	10.0	**9.68**	**ug/L**	**97**	**17**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(30 - 133)
	87	(30 - 133)
Decachlorobiphenyl	85	(30 - 139)
	99	(30 - 139)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H8K090120 **Work Order #...:** CNATF102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8K110000-185 CNATF103-LCSD
Prep Date.....: 11/11/98 **Analysis Date..:** 11/17/98
Prep Batch #...: 8315185
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**85**	**(70 - 158)**			**SW846 8082**
	98	**(70 - 158)**	**14**	**(0-25)**	**SW846 8082**
Aroclor 1260	**82**	**(70 - 158)**			**SW846 8082**
	97	**(70 - 158)**	**17**	**(0-25)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(30 - 133)
	87	(30 - 133)
Decachlorobiphenyl	85	(30 - 139)
	99	(30 - 139)

NOTE(S):

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

Bold print denotes control parameters

IT CORP - W. Virg. Ord. Works

Client Sample ID: 9300

HPLC

Lot-Sample #...: H8K090120-001 Work Order #...: CN8QF10E Matrix.....: SOLID
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/12/98 Analysis Date..: 11/17/98
Prep Batch #...: 8316208
Dilution Factor: 1
% Moisture.....: Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.25	mg/kg
1,3-Dinitrobenzene	ND	0.25	mg/kg
2,4-Dinitrotoluene	ND	0.25	mg/kg
2,6-Dinitrotoluene	ND	0.25	mg/kg
HMX	ND	0.50	mg/kg
Nitrobenzene	ND	0.25	mg/kg
2-Nitrotoluene	ND	0.25	mg/kg
3-Nitrotoluene	ND	0.25	mg/kg
RDX	ND	0.50	mg/kg
Tetryl	ND	0.65	mg/kg
1,3,5-Trinitrobenzene	ND	0.25	mg/kg
2,4,6-Trinitrotoluene	ND	0.25	mg/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	97	(72 - 129)

Quanterra

IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

HPLC

Lot-Sample #...: H8K090120-002 Work Order #...: CN8QH104 Matrix.....: WATER
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/11/98 Analysis Date..: 11/16/98
Prep Batch #...: 8315150
Dilution Factor: 1 Method.....: SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L
1,3-Dinitrobenzene	ND	0.20	ug/L
2,4-Dinitrotoluene	ND	0.20	ug/L
2,6-Dinitrotoluene	ND	0.20	ug/L
HMX	ND	0.50	ug/L
Nitrobenzene	ND	0.20	ug/L
2-Nitrotoluene	ND	0.20	ug/L
3-Nitrotoluene	ND	0.20	ug/L
RDX	ND	0.50	ug/L
Tetryl	ND	0.20	ug/L
1,3,5-Trinitrobenzene	ND	0.20	ug/L
2,4,6-Trinitrotoluene	ND	0.20	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	76	(39 - 157)

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METHOD BLANK REPORT

HPLC

Client Lot #...: H8K090120
MB Lot-Sample #: H8K110000-150
Work Order #...: CNANT101
Matrix.....: WATER
Prep Date.....: 11/11/98
Analysis Date..: 11/13/98
Prep Batch #...: 8315150
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	96	(39 - 157)

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

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LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H8K090120 **Work Order #...:** CNANT102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H8K110000-150 CNANT103-LCSD
Prep Date.....: 11/11/98 **Analysis Date..:** 11/13/98
Prep Batch #...: 8315150
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
HMX	3.00	3.48	ug/L	116		SW846 8330
	3.00	3.63	ug/L	121	4.2	SW846 8330
RDX	3.00	3.48	ug/L	116		SW846 8330
	3.00	3.70	ug/L	123	6.1	SW846 8330
1,3,5-Trinitrobenzene	3.00	3.42	ug/L	114		SW846 8330
	3.00	3.55	ug/L	118	3.7	SW846 8330
1,3-Dinitrobenzene	3.00	3.44	ug/L	115		SW846 8330
	3.00	3.56	ug/L	119	3.3	SW846 8330
Tetryl	3.00	3.45	ug/L	115		SW846 8330
	3.00	3.65	ug/L	122	5.5	SW846 8330
Nitrobenzene	3.00	3.10	ug/L	103		SW846 8330
	3.00	3.20	ug/L	107	3.0	SW846 8330
2,4,6-Trinitrotoluene	3.00	3.49	ug/L	116		SW846 8330
	3.00	3.63	ug/L	121	4.0	SW846 8330
4-Amino-2,6-dinitrotoluene	3.00	3.16	ug/L	105		SW846 8330
	3.00	3.14	ug/L	105	0.48	SW846 8330
2,6-Dinitrotoluene	3.00	3.47	ug/L	116		SW846 8330
	3.00	3.56	ug/L	119	2.5	SW846 8330
2,4-Dinitrotoluene	3.00	3.44	ug/L	115		SW846 8330
	3.00	3.54	ug/L	118	2.9	SW846 8330
2-Nitrotoluene	3.00	2.90	ug/L	97		SW846 8330
	3.00	2.98	ug/L	99	2.5	SW846 8330
3-Nitrotoluene	3.00	3.07	ug/L	102		SW846 8330
	3.00	3.12	ug/L	104	1.5	SW846 8330
2-Amino-4,6-dinitrotoluene	3.00	3.23	ug/L	108		SW846 8330
	3.00	3.23	ug/L	108	0.090	SW846 8330
4-Nitrotoluene	3.00	3.08	ug/L	103		SW846 8330
	3.00	3.09	ug/L	103	0.29	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(39 - 157)
	97	(39 - 157)

NOTE(S):

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

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8K090120 Work Order #...: CNANT102-LCS Matrix.....: WATER
LCS Lot-Sample#: H8K110000-150 CNANT103-LCSD
Prep Date.....: 11/11/98 Analysis Date..: 11/13/98
Prep Batch #...: 8315150
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	116	(67 - 123)			SW846 8330
	121	(67 - 123)	4.2	(0-23)	SW846 8330
RDX	116	(85 - 157)			SW846 8330
	123	(85 - 157)	6.1	(0-30)	SW846 8330
1,3,5-Trinitrobenzene	114	(80 - 141)			SW846 8330
	118	(80 - 141)	3.7	(0-18)	SW846 8330
1,3-Dinitrobenzene	115	(81 - 142)			SW846 8330
	119	(81 - 142)	3.3	(0-25)	SW846 8330
Tetryl	115	(55 - 140)			SW846 8330
	122	(55 - 140)	5.5	(0-35)	SW846 8330
Nitrobenzene	103	(69 - 140)			SW846 8330
	107	(69 - 140)	3.0	(0-20)	SW846 8330
2,4,6-Trinitrotoluene	116	(69 - 146)			SW846 8330
	121	(69 - 146)	4.0	(0-24)	SW846 8330
4-Amino-2,6-dinitrotoluene	105	(75 - 130)			SW846 8330
	105	(75 - 130)	0.48	(0-23)	SW846 8330
2,6-Dinitrotoluene	116	(74 - 135)			SW846 8330
	119	(74 - 135)	2.5	(0-19)	SW846 8330
2,4-Dinitrotoluene	115	(77 - 135)			SW846 8330
	118	(77 - 135)	2.9	(0-19)	SW846 8330
2-Nitrotoluene	97	(58 - 136)			SW846 8330
	99	(58 - 136)	2.5	(0-24)	SW846 8330
3-Nitrotoluene	102	(64 - 126)			SW846 8330
	104	(64 - 126)	1.5	(0-23)	SW846 8330
2-Amino-4,6-dinitrotoluene	108	(80 - 131)			SW846 8330
	108	(80 - 131)	0.090	(0-21)	SW846 8330
4-Nitrotoluene	103	(69 - 122)			SW846 8330
	103	(69 - 122)	0.29	(0-25)	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	98	(39 - 157)
	97	(39 - 157)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

HPLC

Client Lot #...: H8K090120 **Work Order #...:** CND82101 **Matrix.....:** SOLID
MB Lot-Sample #: H8K120000-208

Prep Date.....: 11/12/98
Analysis Date..: 11/17/98 **Prep Batch #...:** 8316208
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,3-Dinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
2,6-Dinitrotoluene	ND	0.25	mg/kg	SW846 8330
Nitrobenzene	ND	0.25	mg/kg	SW846 8330
1,3,5-Trinitrobenzene	ND	0.25	mg/kg	SW846 8330
2,4,6-Trinitrotoluene	ND	0.25	mg/kg	SW846 8330
HMX	ND	0.50	mg/kg	SW846 8330
RDX	ND	0.50	mg/kg	SW846 8330
Tetryl	ND	0.65	mg/kg	SW846 8330
2-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
3-Nitrotoluene	ND	0.25	mg/kg	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	0.25	mg/kg	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	96	(72 - 129)

NOTE(S):

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

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: H8K090120 Work Order #...: CN8QF110-MS Matrix.....: SOLID
MS Lot-Sample #: H8K090120-001 CN8QF111-MSD
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/12/98 Analysis Date..: 11/17/98
Prep Batch #...: 8316208
Dilution Factor: 1 % Moisture.....:

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2-Amino-4,6-dinitrotoluen	ND	3.00	2.89	mg/kg	96		SW846 8330
	ND	3.00	2.87	mg/kg	96	0.60	SW846 8330
4-Nitrotoluene	ND	3.00	2.80	mg/kg	93		SW846 8330
	ND	3.00	2.74	mg/kg	91	2.1	SW846 8330
HMX	ND	3.00	2.81	mg/kg	94		SW846 8330
	ND	3.00	2.74	mg/kg	91	2.7	SW846 8330
RDX	ND	3.00	2.75	mg/kg	92		SW846 8330
	ND	3.00	2.78	mg/kg	93	1.1	SW846 8330
1,3,5-Trinitrobenzene	ND	3.00	2.78	mg/kg	93		SW846 8330
	ND	3.00	2.76	mg/kg	92	0.72	SW846 8330
1,3-Dinitrobenzene	ND	3.00	2.80	mg/kg	93		SW846 8330
	ND	3.00	2.77	mg/kg	92	1.0	SW846 8330
Tetryl	ND	3.00	1.79	mg/kg	60		SW846 8330
	ND	3.00	1.76	mg/kg	59	1.5	SW846 8330
Nitrobenzene	ND	3.00	2.79	mg/kg	93		SW846 8330
	ND	3.00	2.78	mg/kg	93	0.39	SW846 8330
2,4,6-Trinitrotoluene	ND	3.00	2.54	mg/kg	85		SW846 8330
	ND	3.00	2.51	mg/kg	84	1.1	SW846 8330
4-Amino-2,6-dinitrotoluen	ND	3.00	2.78	mg/kg	93		SW846 8330
	ND	3.00	2.79	mg/kg	93	0.15	SW846 8330
2,6-Dinitrotoluene	ND	3.00	3.10	mg/kg	103		SW846 8330
	ND	3.00	3.07	mg/kg	102	1.1	SW846 8330
2,4-Dinitrotoluene	ND	3.00	2.81	mg/kg	94		SW846 8330
	ND	3.00	2.79	mg/kg	93	0.97	SW846 8330
2-Nitrotoluene	ND	3.00	2.79	mg/kg	93		SW846 8330
	ND	3.00	2.75	mg/kg	92	1.3	SW846 8330
3-Nitrotoluene	ND	3.00	2.84	mg/kg	95		SW846 8330
	ND	3.00	2.74	mg/kg	91	3.5	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(72 - 129)
	89	(72 - 129)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8K090120 Work Order #...: CN8QF110-MS Matrix.....: SOLID
MS Lot-Sample #: H8K090120-001 CN8QF111-MSD
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Prep Date.....: 11/12/98 Analysis Date..: 11/17/98
Prep Batch #...: 8316208
Dilution Factor: 1 % Moisture.....:

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Amino-4,6-dinitrotoluen	**96**	**(76 - 120)**			**SW846 8330**
	96	**(76 - 120)**	**0.60**	**(0-15)**	**SW846 8330**
4-Nitrotoluene	**93**	**(76 - 122)**			**SW846 8330**
	91	**(76 - 122)**	**2.1**	**(0-25)**	**SW846 8330**
HMX	**94**	**(48 - 125)**			**SW846 8330**
	91	**(48 - 125)**	**2.7**	**(0-15)**	**SW846 8330**
RDX	**92**	**(61 - 127)**			**SW846 8330**
	93	**(61 - 127)**	**1.1**	**(0-15)**	**SW846 8330**
1,3,5-Trinitrobenzene	**93**	**(74 - 126)**			**SW846 8330**
	92	**(74 - 126)**	**0.72**	**(0-15)**	**SW846 8330**
1,3-Dinitrobenzene	**93**	**(71 - 126)**			**SW846 8330**
	92	**(71 - 126)**	**1.0**	**(0-15)**	**SW846 8330**
Tetryl	**60**	**(32 - 143)**			**SW846 8330**
	59	**(32 - 143)**	**1.5**	**(0-26)**	**SW846 8330**
Nitrobenzene	**93**	**(76 - 122)**			**SW846 8330**
	93	**(76 - 122)**	**0.39**	**(0-15)**	**SW846 8330**
2,4,6-Trinitrotoluene	**85**	**(69 - 132)**			**SW846 8330**
	84	**(69 - 132)**	**1.1**	**(0-15)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**93**	**(67 - 127)**			**SW846 8330**
	93	**(67 - 127)**	**0.15**	**(0-15)**	**SW846 8330**
2,6-Dinitrotoluene	**103**	**(75 - 122)**			**SW846 8330**
	102	**(75 - 122)**	**1.1**	**(0-15)**	**SW846 8330**
2,4-Dinitrotoluene	**94**	**(75 - 124)**			**SW846 8330**
	93	**(75 - 124)**	**0.97**	**(0-15)**	**SW846 8330**
2-Nitrotoluene	**93**	**(77 - 125)**			**SW846 8330**
	92	**(77 - 125)**	**1.3**	**(0-15)**	**SW846 8330**
3-Nitrotoluene	**95**	**(76 - 121)**			**SW846 8330**
	91	**(76 - 121)**	**3.5**	**(0-15)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(72 - 129)
	89	(72 - 129)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H8K090120 Work Order #...: CND82102 Matrix.....: SOLID
LCS Lot-Sample#: H8K120000-208
Prep Date.....: 11/12/98 Analysis Date..: 11/17/98
Prep Batch #...: 8316208
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
HMX	3.00	2.84	mg/kg	95	SW846 8330
RDX	3.00	2.82	mg/kg	94	SW846 8330
1,3,5-Trinitrobenzene	3.00	2.84	mg/kg	95	SW846 8330
1,3-Dinitrobenzene	3.00	2.85	mg/kg	95	SW846 8330
Tetryl	3.00	2.58	mg/kg	86	SW846 8330
Nitrobenzene	3.00	2.81	mg/kg	94	SW846 8330
2,6-Dinitrotoluene	3.00	3.15	mg/kg	105	SW846 8330
2,4-Dinitrotoluene	3.00	2.84	mg/kg	95	SW846 8330
2,4,6-Trinitrotoluene	3.00	2.84	mg/kg	95	SW846 8330
4-Amino-2,6-dinitrotoluen	3.00	2.89	mg/kg	96	SW846 8330
2-Nitrotoluene	3.00	2.81	mg/kg	94	SW846 8330
3-Nitrotoluene	3.00	2.80	mg/kg	93	SW846 8330
2-Amino-4,6-dinitrotoluen	3.00	2.95	mg/kg	98	SW846 8330
4-Nitrotoluene	3.00	2.77	mg/kg	92	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H8K090120 Work Order #...: CND82102 Matrix.....: SOLID
LCS Lot-Sample#: H8K120000-208
Prep Date.....: 11/12/98 Analysis Date..: 11/17/98
Prep Batch #...: 8316208
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**95**	**(65 - 117)**	**SW846 8330**
RDX	**94**	**(75 - 124)**	**SW846 8330**
1,3,5-Trinitrobenzene	**95**	**(78 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**95**	**(75 - 123)**	**SW846 8330**
Tetryl	**86**	**(40 - 125)**	**SW846 8330**
Nitrobenzene	**94**	**(76 - 122)**	**SW846 8330**
2,6-Dinitrotoluene	**105**	**(75 - 122)**	**SW846 8330**
2,4-Dinitrotoluene	**95**	**(75 - 124)**	**SW846 8330**
2,4,6-Trinitrotoluene	**95**	**(71 - 132)**	**SW846 8330**
4-Amino-2,6-dinitrotoluen	**96**	**(75 - 127)**	**SW846 8330**
2-Nitrotoluene	**94**	**(77 - 125)**	**SW846 8330**
3-Nitrotoluene	**93**	**(78 - 121)**	**SW846 8330**
2-Amino-4,6-dinitrotoluen	**98**	**(76 - 120)**	**SW846 8330**
4-Nitrotoluene	**92**	**(76 - 122)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	94	(72 - 129)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

IT CORP - W. Virg. Ord. Works

Client Sample ID: 9300

TCLP Metals

Lot-Sample #...: H8K090120-001 Matrix.....: SOLID
Date Sampled...: 11/07/98 Date Received..: 11/09/98
Leach Date.....: 11/09/98 Leach Batch #..: P831304

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8314177						
Arsenic	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8QF105
		Dilution Factor: 1		Analysis Time..: 12:15		
Barium	ND	10.0	mg/L	SW846 6010B	11/10-11/11/98	CN8QF106
		Dilution Factor: 1		Analysis Time..: 12:15		
Cadmium	ND	0.10	mg/L	SW846 6010B	11/10-11/11/98	CN8QF107
		Dilution Factor: 1		Analysis Time..: 12:15		
Chromium	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8QF108
		Dilution Factor: 1		Analysis Time..: 12:15		
Lead	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8QF109
		Dilution Factor: 1		Analysis Time..: 12:15		
Selenium	ND	0.25	mg/L	SW846 6010B	11/10-11/11/98	CN8QF10A
		Dilution Factor: 1		Analysis Time..: 12:15		
Silver	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8QF10C
		Dilution Factor: 1		Analysis Time..: 12:15		
Prep Batch #...: 8321145						
Mercury	ND	0.0020	mg/L	SW846 7470A	11/17/98	CN8QF10I
		Dilution Factor: 1		Analysis Time..: 17:36		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra

IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

TOTAL Metals

Lot-Sample #...: H8K090120-002 Matrix.....: WATER
Date Sampled...: 11/07/98 Date Received..: 11/09/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8320122						
Aluminum	**2.1**	**0.20**	**mg/L**	**SW846 6010B**	**11/16-11/17/98**	**CN8QH106**
		Dilution Factor: 1		Analysis Time..: 18:50		
Arsenic	ND	0.010	mg/L	SW846 6010B	11/16-11/18/98	CN8QH10R
		Dilution Factor: 1		Analysis Time..: 00:16		
Lead	ND	0.0030	mg/L	SW846 6010B	11/16-11/18/98	CN8QH10T
		Dilution Factor: 1		Analysis Time..: 00:16		
Antimony	ND	0.060	mg/L	SW846 6010B	11/16-11/17/98	CN8QH107
		Dilution Factor: 1		Analysis Time..: 18:50		
Selenium	ND	0.0050	mg/L	SW846 6010B	11/16-11/18/98	CN8QH10U
		Dilution Factor: 1		Analysis Time..: 00:16		
Barium	ND	0.20	mg/L	SW846 6010B	11/16-11/17/98	CN8QH108
		Dilution Factor: 1		Analysis Time..: 18:50		
Thallium	ND	0.010	mg/L	SW846 6010B	11/16-11/18/98	CN8QH10V
		Dilution Factor: 1		Analysis Time..: 00:16		
Beryllium	ND	0.0050	mg/L	SW846 6010B	11/16-11/17/98	CN8QH109
		Dilution Factor: 1		Analysis Time..: 18:50		
Cadmium	ND	0.0050	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10A
		Dilution Factor: 1		Analysis Time..: 18:50		
Calcium	**19.9**	**5.0**	**mg/L**	**SW846 6010B**	**11/16-11/17/98**	**CN8QH10C**
		Dilution Factor: 1		Analysis Time..: 18:50		
Chromium	ND	0.010	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10D
		Dilution Factor: 1		Analysis Time..: 18:50		
Cobalt	ND	0.050	mg/L	SW846 6010B	11/16-11/18/98	CN8QH10E
		Dilution Factor: 1		Analysis Time..: 00:16		
Copper	ND	0.025	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10F
		Dilution Factor: 1		Analysis Time..: 18:50		
Iron	**5.2**	**0.10**	**mg/L**	**SW846 6010B**	**11/16-11/17/98**	**CN8QH10C**
		Dilution Factor: 1		Analysis Time..: 18:50		

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Quanterra

IT CORP - W. Virg. Ord. Works

Client Sample ID: 9310

TOTAL Metals

Lot-Sample #...: H8K090120-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	ND	5.0	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10H
		Dilution Factor: 1		Analysis Time..: 18:50		
Manganese	0.068	0.015	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10J
		Dilution Factor: 1		Analysis Time..: 18:50		
Nickel	ND	0.040	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10K
		Dilution Factor: 1		Analysis Time..: 18:50		
Potassium	6.5	5.0	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10L
		Dilution Factor: 1		Analysis Time..: 18:50		
Silver	ND	0.010	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10M
		Dilution Factor: 1		Analysis Time..: 18:50		
Sodium	14.2	5.0	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10N
		Dilution Factor: 1		Analysis Time..: 18:50		
Vanadium	ND	0.050	mg/L	SW846 6010B	11/16-11/18/98	CN8QH10P
		Dilution Factor: 1		Analysis Time..: 00:16		
Zinc	0.030	0.020	mg/L	SW846 6010B	11/16-11/17/98	CN8QH10Q
		Dilution Factor: 1		Analysis Time..: 18:50		

Prep Batch #...: 8321130

Mercury	ND	0.00020	mg/L	SW846 7470A	11/17/98	CN8QH10W
		Dilution Factor: 1		Analysis Time..: 16:48		

Quanterra

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: H8K090120 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8K090000-251 **Prep Batch #...:** 8314177						
Leach Date.....: 11/09/98 **Leach Batch #..:** P831304						
Arsenic	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8V610D
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Barium	ND	10.0	mg/L	SW846 6010B	11/10-11/11/98	CN8V610E
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cadmium	ND	0.10	mg/L	SW846 6010B	11/10-11/11/98	CN8V610F
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Chromium	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8V610G
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Lead	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8V610H
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Selenium	ND	0.25	mg/L	SW846 6010B	11/10-11/11/98	CN8V610A
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Silver	ND	0.50	mg/L	SW846 6010B	11/10-11/11/98	CN8V610C
		Dilution Factor: 1				
		Analysis Time..: 11:59				
MB Lot-Sample #: H8K090000-251 **Prep Batch #...:** 8321145						
Leach Date.....: 11/09/98 **Leach Batch #..:** P831304						
Mercury	ND	0.0020	mg/L	SW846 7470A	11/17/98	CN8V6103
		Dilution Factor: 1				
		Analysis Time..: 17:30				

NOTE(S):

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

Quanterra

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8K160000-122 **Prep Batch #...:** 8320122						
Aluminum	ND	0.20	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10G
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Arsenic	ND	0.010	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10C
		Dilution Factor: 1				
		Analysis Time..: 23:42				
Antimony	ND	0.060	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10H
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Lead	ND	0.0030	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10D
		Dilution Factor: 1				
		Analysis Time..: 23:42				
Barium	ND	0.20	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10J
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Selenium	ND	0.0050	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10E
		Dilution Factor: 1				
		Analysis Time..: 23:42				
Beryllium	ND	0.0050	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10K
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Thallium	ND	0.010	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10F
		Dilution Factor: 1				
		Analysis Time..: 23:42				
Cadmium	ND	0.0050	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10I
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Calcium	ND	5.0	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10I
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Chromium	ND	0.010	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10
		Dilution Factor: 1				
		Analysis Time..: 18:11				

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Quanterra

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	0.050	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10P
		Dilution Factor: 1				
		Analysis Time..: 23:42				
Copper	ND	0.025	mg/L	SW846 6010B	11/16-11/17/98	CNGHG101
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Iron	ND	0.10	mg/L	SW846 6010B	11/16-11/17/98	CNGHG102
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Magnesium	ND	5.0	mg/L	SW846 6010B	11/16-11/17/98	CNGHG103
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Manganese	ND	0.015	mg/L	SW846 6010B	11/16-11/17/98	CNGHG104
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Nickel	ND	0.040	mg/L	SW846 6010B	11/16-11/17/98	CNGHG105
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Potassium	ND	5.0	mg/L	SW846 6010B	11/16-11/17/98	CNGHG106
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Silver	ND	0.010	mg/L	SW846 6010B	11/16-11/17/98	CNGHG107
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Sodium	ND	5.0	mg/L	SW846 6010B	11/16-11/17/98	CNGHG108
		Dilution Factor: 1				
		Analysis Time..: 18:11				
Vanadium	ND	0.050	mg/L	SW846 6010B	11/16-11/17/98	CNGHG109
		Dilution Factor: 1				
		Analysis Time..: 23:42				
Zinc	ND	0.020	mg/L	SW846 6010B	11/16-11/17/98	CNGHG10A
		Dilution Factor: 1				
		Analysis Time..: 18:11				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H8K170000-130 **Prep Batch #...:** 8321130						
Mercury	ND	0.00020	mg/L	SW846 7470A	11/17/98	CNH7P101
		Dilution Factor: 1				
		Analysis Time..: 16:35				

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: H8K090120 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8K100000-177 **Prep Batch #...:** 8314177							
Selenium	1.00	1.09	mg/L	109	SW846 6010B	11/10-11/11/98	CN9G2101
			Dilution Factor: 1				
			Analysis Time..: 12:05				
Silver	1.00	1.04	mg/L	104	SW846 6010B	11/10-11/11/98	CN9G2102
			Dilution Factor: 1				
			Analysis Time..: 12:05				
Arsenic	5.00	5.13	mg/L	103	SW846 6010B	11/10-11/11/98	CN9G2103
			Dilution Factor: 1				
			Analysis Time..: 12:05				
Barium	50.0	53.5	mg/L	107	SW846 6010B	11/10-11/11/98	CN9G2104
			Dilution Factor: 1				
			Analysis Time..: 12:05				
Cadmium	1.00	1.02	mg/L	102	SW846 6010B	11/10-11/11/98	CN9G2105
			Dilution Factor: 1				
			Analysis Time..: 12:05				
Chromium	5.00	5.12	mg/L	102	SW846 6010B	11/10-11/11/98	CN9G2106
			Dilution Factor: 1				
			Analysis Time..: 12:05				
Lead	5.00	5.06	mg/L	101	SW846 6010B	11/10-11/11/98	CN9G2107
			Dilution Factor: 1				
			Analysis Time..: 12:05				
LCS Lot-Sample#: H8K170000-145 **Prep Batch #...:** 8321145							
Mercury	0.00500	0.00519	mg/L	104	SW846 7470A	11/17/98	CNH88101
			Dilution Factor: 1				
			Analysis Time..: 17:33				

NOTE(S):

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

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8K160000-122 **Prep Batch #...:** 8320122							
Copper	0.250	0.266	mg/L	106	SW846 6010B	11/16-11/17/98	CNGHG10Q
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Iron	1.00	1.18	mg/L	118	SW846 6010B	11/16-11/17/98	CNGHG10R
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Magnesium	50.0	53.0	mg/L	106	SW846 6010B	11/16-11/17/98	CNGHG10T
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Manganese	0.500	0.567	mg/L	113	SW846 6010B	11/16-11/17/98	CNGHG10U
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Nickel	0.500	0.589	mg/L	118	SW846 6010B	11/16-11/17/98	CNGHG10V
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Potassium	50.0	50.9	mg/L	102	SW846 6010B	11/16-11/17/98	CNGHG10W
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Silver	0.0500	0.0580	mg/L	116	SW846 6010B	11/16-11/17/98	CNGHG10X
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Beryllium	0.0500	0.0550	mg/L	110	SW846 6010B	11/16-11/17/98	CNGHG11A
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Cadmium	0.0500	0.0567	mg/L	113	SW846 6010B	11/16-11/17/98	CNGHG11C
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Calcium	50.0	56.3	mg/L	113	SW846 6010B	11/16-11/17/98	CNGHG11D
			Dilution Factor: 1				
			Analysis Time..: 18:26				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H8K090120 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	0.200	0.232	mg/L	116	SW846 6010B	11/16-11/17/98	CNGHG11E
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Cobalt	0.500	0.537	mg/L	107	SW846 6010B	11/16-11/17/98	CNGHG11F
			Dilution Factor: 1				
			Analysis Time..: 23:48				
Sodium	50.0	49.2	mg/L	98	SW846 6010B	11/16-11/17/98	CNGHG110
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Vanadium	0.500	0.482	mg/L	96	SW846 6010B	11/16-11/17/98	CNGHG111
			Dilution Factor: 1				
			Analysis Time..: 23:48				
Zinc	0.500	0.583	mg/L	117	SW846 6010B	11/16-11/17/98	CNGHG112
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Arsenic	2.00	2.21	mg/L	110	SW846 6010B	11/16-11/17/98	CNGHG113
			Dilution Factor: 1				
			Analysis Time..: 23:48				
Lead	0.500	0.548	mg/L	110	SW846 6010B	11/16-11/17/98	CNGHG114
			Dilution Factor: 1				
			Analysis Time..: 23:48				
Selenium	2.00	2.37 N	mg/L	118	SW846 6010B	11/16-11/17/98	CNGHG115
			Dilution Factor: 1				
			Analysis Time..: 23:48				
Thallium	2.00	2.23 N	mg/L	111	SW846 6010B	11/16-11/17/98	CNGHG116
			Dilution Factor: 1				
			Analysis Time..: 23:48				
Aluminum	2.00	2.15	mg/L	108	SW846 6010B	11/16-11/17/98	CNGHG117
			Dilution Factor: 1				
			Analysis Time..: 18:26				
Antimony	0.500	0.590	mg/L	118	SW846 6010B	11/16-11/17/98	CNGHG118
			Dilution Factor: 1				
			Analysis Time..: 18:26				

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	2.00	2.12	mg/L	106	SW846 6010B	11/16-11/17/98	CNGHG119
			Dilution Factor: 1				
			Analysis Time..: 18:26				

LCS Lot-Sample#: H8K170000-130 **Prep Batch #...:** 8321130

Mercury	0.00500	0.00489	mg/L	98	SW846 7470A	11/17/98	CNH7P102
			Dilution Factor: 1				
			Analysis Time..: 16:38				

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: H8K090120 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8K100000-177 **Prep Batch #...:** 8314177					
Selenium	109	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2101
Silver	104	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2102
Arsenic	103	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2103
Barium	107	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2104
Cadmium	102	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2105
Chromium	102	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2106
Lead	101	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 12:05	11/10-11/11/98	CN9G2107
LCS Lot-Sample#: H8K170000-145 **Prep Batch #...:** 8321145					
Mercury	104	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 17:33	11/17/98	CNH88101

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H8K160000-122 **Prep Batch #...:** 8320122					
Copper	106	(82 - 116)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10Q
Iron	118	(87 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10R
Magnesium	106	(82 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10T
Manganese	113	(86 - 116)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10U
Nickel	118	(83 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10V
Potassium	102	(81 - 115)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10W
Silver	116	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG10X
Beryllium	110	(80 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG11A
Cadmium	113	(81 - 118)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG11C
Calcium	113	(82 - 120)	SW846 6010B Dilution Factor: 1 Analysis Time..: 18:26	11/16-11/17/98	CNGHG11D

(Continued on next page)

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	116	(80 - 120)	SW846 6010B	11/16-11/17/98	CNGHG11E
		Dilution Factor: 1			
		Analysis Time..: 18:26			
Cobalt	107	(83 - 115)	SW846 6010B	11/16-11/17/98	CNGHG11F
		Dilution Factor: 1			
		Analysis Time..: 23:48			
Sodium	98	(82 - 114)	SW846 6010B	11/16-11/17/98	CNGHG110
		Dilution Factor: 1			
		Analysis Time..: 18:26			
Vanadium	96	(88 - 117)	SW846 6010B	11/16-11/17/98	CNGHG111
		Dilution Factor: 1			
		Analysis Time..: 23:48			
Zinc	117	(85 - 120)	SW846 6010B	11/16-11/17/98	CNGHG112
		Dilution Factor: 1			
		Analysis Time..: 18:26			
Arsenic	110	(82 - 110)	SW846 6010B	11/16-11/17/98	CNGHG113
		Dilution Factor: 1			
		Analysis Time..: 23:48			
Lead	110	(81 - 111)	SW846 6010B	11/16-11/17/98	CNGHG114
		Dilution Factor: 1			
		Analysis Time..: 23:48			
Selenium	118 N	(81 - 113)	SW846 6010B	11/16-11/17/98	CNGHG115
		Dilution Factor: 1			
		Analysis Time..: 23:48			
Thallium	111 N	(80 - 110)	SW846 6010B	11/16-11/17/98	CNGHG116
		Dilution Factor: 1			
		Analysis Time..: 23:48			
Aluminum	108	(83 - 117)	SW846 6010B	11/16-11/17/98	CNGHG117
		Dilution Factor: 1			
		Analysis Time..: 18:26			
Antimony	118	(87 - 120)	SW846 6010B	11/16-11/17/98	CNGHG118
		Dilution Factor: 1			
		Analysis Time..: 18:26			

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Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H8K090120 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	106	(82 - 112)	SW846 6010B	11/16-11/17/98	CNGHG119
		Dilution Factor: 1			
		Analysis Time..: 18:26			

LCS Lot-Sample#: H8K170000-130 **Prep Batch #...:** 8321130

Mercury	98	(80 - 120)	SW846 7470A	11/17/98	CNH7P102
		Dilution Factor: 1			
		Analysis Time..: 16:38			

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

GALBRAITH® LABORATORIES, INC.

Accuracy with speed - since 1950

LABORATORY REPORT

John Reynolds
Quanterra Inc
5815 Middlebrook Pike
Knoxville TN 37921

Report Date: 11/12/98
Sample Received: 11/11/98
Purchase Order #: 608825
Fax Number: 423-584-4315

SAMPLE ID	LAB ID	ANALYSIS	RESULT(S)	
9310 Proj#768145/WVOW	A-0283	Chloride	7	ppm

AL:yd F3

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U.S. Mail: P.O. Box 51610 · Knoxville, TN 37950-1610
Other Carriers: 2323 Sycamore Drive · Knoxville, TN 37921-1750
Tel: (423) 546-1335 · Fax: (423) 546-7209

GALBRAITH® LABORATORIES, INC.
Accuracy with speed - since 1950

LABORATORY REPORT

John Reynolds
Quanterra Env. Svc.

Report Date: 11/12/98
Lab I.D.: A-0283

Preparation Confirmation

As requested, Sample ID#9310 was refrigerated @ 4°C prior to analysis.

AL:yd

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H8K09020

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 47283
Page 1 of 1

Project Name/No. 1 WVDW/768145.16000003
Samples Shipment Date 7 ~~8087986 99780 DKK~~ 11-7-98
Bill to: 5 IT Corporation, 312 Directors Drive, Knoxville, TN 37923

Sample Team Members 2 David Kessler
Lab Destination 8 Quantera

Profit Center No. 3 3489210
Lab Contact 9 John Reynolds

Project Manager 4 Mike Spangberg
Project Contact/Phone 12 Mike Spangberg/(423) 690-3211
Report to: 10 Mike Spangberg, IT Corporation, 312 Directors Drive, Knoxville, TN 37923

Purchase Order No. 6 verbal
Carrier/Waybill No. 13 8087986 99780

Required Report Date 11 7 days

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Preservative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
9300	Composite Soil / IDW	11-7-98 1130	clear glass ~~3@125ml~~	3@125ml	ICE	TCLP Volatiles (8260A)		
9300	" / "	11-7-98 1130	clear glass	2@250ml	ICE	TCLP Semis/Nitros (8270B/8330)	FOR LAB USE ONLY	
9300	" / "	11-7-98 1130	clear glass	2@250ml	ICE	TCLP Metals (6010/7470)		
9310	Composite Water / IDW	11-7-98 1100	voa vial	3@40ml	HCL	Volatiles (8260B)		
9310	" / "	11-7-98 1100	amber glass	2@1l	ICE	Semivolatiles (8270B)		
9310	" / "	11-7-98 1100	amber glass	2@1l	ICE	Pest/Herb/~~PCB~~ DKK	FOR LAB USE ONLY	
9310	" / "	11-7-98 1100	amber glass	2@1l	ICE	Nitroaromatic explosives	Need at [illegible] No Custody Seals. JW 11-9-98	
9310	" / "	11-7-98 1100	poly	1@1l	~~ICE~~ HNO_3	Percent chlorine pH<2		
9310	" / "	11-7-98 1100	poly	1@1l	HNO_3	Metals		

Special Instructions: 23 Contact Mike Spangberg to make sure the water sample get analysis for both Pesticides/Herbicides ?

Possible Hazard Identification: 24
Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☒

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☒ Archive _____ (mos.)

Turnaround Time Required: 26
Normal ☐ Rush ☐ 7 Days

QC Level: 27
I. ☐ II. ☐ III. ☒ Project Specific (specify):

1. Relinquished by 28 (Signature/Affiliation) David Kessler IT Corp	Date: 11-7-98 Time: 1300	1. Received by 28 (Signature/Affiliation) [illegible]	Date: 11-9-98 Time: 8:30
2. Relinquished by (Signature/Affiliation)	Date: Time:	2. Received by (Signature/Affiliation)	Date: Time:
3. Relinquished by (Signature/Affiliation)	Date: Time:	3. Received by (Signature/Affiliation)	Date: Time:

Comments: 29

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Quanterra Environmental Services
5815 Middlebrook Pike
Knoxville, Tennessee 37921
(423) 588-6401

P.O.# 608825

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 4647
Page 1 of ____

Project Name/No. 1: 768145/WVOW
Sample Team Members 2:
Profit Center No. 3:
Project Manager 4: K. Reynolds
Purchase Order No. 6: IN PROGRESS
Required Report Date 11: FAX 1.4 11/16 (1-587-4315)

Samples Shipment Date 7: 11/10/98
Lab Destination 8: CALCRAIGH
Lab Contact 9: JINA PROFIT
Project Contact/Phone 12:
Carrier/Waybill No. 13: HAND DELIVERED

Bill to: 5 QUANTERRA, INC.
5815 MIDDLEBROOK PIKE
KNOXVILLE, TN 37921
ATTN: JULIE REYNOLDS

Report to: 10 QUANTERRA, INC.
5815 MIDDLEBROOK PIKE
KNOXVILLE TN 37921
ATTN: JULIE REYNOLDS

ONE CONTAINER PER LINE

Sample Number 14	Sample Description/Type 15	Date/Time Collected 16	Container Type 17	Sample Volume 18	Pre-servative 19	Requested Testing Program 20	Condition on Receipt 21	Disposal Record No. 22
9310	JOW AQUEOUS	11/7/98 11:00	1L Poly	—	ICE	PERCENT CHLORINE		
							FOR LAB USE ONLY	
							FOR LAB USE ONLY	

Special Instructions: 23

Possible Hazard Identification: 24
Non-hazard ☑ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal: 25
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

Turnaround Time Required: 26
Normal ☐ Rush ☑ FAX TO QUANTERRA 1-587-4315

QC Level: 27
I. ☑ II. ☐ III. ☐ Project Specific (specify):

1. Relinquished by 28 (Signature/Affiliation): K. Woodcock QK — Date: 11/10/98 Time: 1630
1. Received by 28 (Signature/Affiliation): David R. Vance — Date: 11/10/98 Time: 1630
2. Relinquished by (Signature/Affiliation) — Date: Time:
2. Received by (Signature/Affiliation) — Date: Time:
3. Relinquished by (Signature/Affiliation) — Date: Time:
3. Received by (Signature/Affiliation) — Date: Time:

Comments: 29

QUANTERRA KNOXVILLE LABORATORY
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

CLIENT: IT Corp PROJECT: WVOW Lot No.: 148KM0120

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:

		YES	NO	NA
a.	Do sample container labels match COC? (IDs, Dates, Times)	✓		
b.	Is the cooler temperature within acceptance limits?	✓		
c.	Were samples received with correct preservative (excluding Encore)?	✓		
d.	Were custody seals present/intact on cooler and/or containers?	✓		
e.	Were all of the samples listed on the COC received?	✓		
f.	Were all of the sample containers received intact?	✓		
g.	Were containers received for VOAs received without headspace?	✓		
h.	Were samples received in the appropriate containers?	✓		
i.	Did you check for residual chlorine, if necessary?			✓
j.	Were samples received within 1/2 of the (QAMP) holding time?	✓		
k.	Were samples screened for radioactivity?			✓
l.	Were client's sample documents (RFA/COC) received?	✓		
m.	Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n.	Are test/parameters listed for each sample?	✓		
o.	Is the matrix of the samples noted?	✓		
p.	Is the date/time of sample collection noted?	✓		
q.	Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 11-9-98

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":

		YES	NO	NA
a.	Quote number to be logged-in under 23872			
b.	Informed Login associates of special instructions? FAX due 11/16 (COA ONLY!!) (NO HERBICIDES REQUIRED PER MIKE SPANGBERG/LT) PROCESS FOR PEST/PCBs	✓		

x % CHLORINE ON MOD

2. If custody seals were missing/not intact, was client notified? ✓

PROJECT MANAGER : [signature] DATE: 11/9/98

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

QUANTERRA KNOXVILLE LABORATORY

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: IT CORP PROJECT: WVOW/768145 Lot No.: H8K 090120

TO BE COMPETED BY PROJECT MANAGER:

1. Client Documents (Request for Analysis/Chain of Custody):	YES	NO	NA
a. Was QuanTIMS lot number documented on all paperwork?	✓		
b. Was RFA/COC signed upon receipt, including date/time?	✓		
c. Is preservative check (pH) noted on RFA/COC?	✓		
d. Is cooler temperature & custody seal condition noted on COC?	✓		

2. Log-in (Lot Folder) Review:	YES	NO	NA
a. Do client IDs on Client Summaries match RFA/COC?	✓		
b. Were tests/parameters assigned correctly?	✓		
c. Were correct analytical and report due dates assigned?	✓		
d. Has the correct fax due date been assigned to the lot?	✓		
e. Is the correct report format noted in the lot summary?	✓		
f. Is percent moisture logged for samples requiring this analysis?			✓
g. Are client assigned QC samples properly defined?			✓

3. Contract/Subcontract Review:	YES	NO	NA
a. Is there a contract number or PO for this work?	✓		
b If the purchase order number is given, is it noted in Lot header?		✓	
c. If samples were subcontracted, was copy of COC in folder?			✓

4. SDG Review:	YES	NO	NA
a. If SDG is required, is SDG form in Lot folder?			✓
b Is SDG number noted in Lot header & sample comments?			✓
c. If SDG is complete, has the due date been revised & marked closed?			✓

5. Checklist Review:	YES	NO	NA
a. Has Sample Receipt Checklist been filled-out?	✓		
b. Was there a CUR?		✓	
c. Were all issues resolved?			✓

LOT FOLDER REVIEWED BY: K. Woodcock DATE: 10/9/98

* Ship container for percent chlorine determination to Saltzman lab in KNX 11/10/98

QA016R7.doc, 01/29/98