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INTERIM OFFSHORE MONITORING PROGRAM ROUND 11 DATA PACKAGE FOR OPERABLE UNIT 4 (OU 4) NSY PORTSMOUTH ME

09/01/2011

TETRA TECH NUS

Interim Offshore Monitoring Program Round 11 Data Package for Operable Unit 4

at

Portsmouth Naval Shipyard

Kittery, Maine

Engineering Field Activity Northeast
Naval Facilities Engineering Command

Contract Number N62470-08-D-1001

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INTERIM OFFSHORE MONITORING PROGRAM
ROUND 11 DATA PACKAGE

FOR

OPERABLE UNIT 4

PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

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ACRONYMS AND ABBREVIATIONS

µg/kg	microgram per kilogram
4,4-DDT	1,1'(2,2,2-trichloroethylidene)bis[4-chlorobenzene]
CD	compact disc
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
FS	Feasibility Study
GPS	Global Positioning System
mg/kg	milligram per kilogram
MS	Monitoring Station
NAVFAC	Naval Facilities Engineering Command
OU	Operable Unit
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PRG	Project Remediation Goals
PNS	Portsmouth Naval Shipyard
PSL	Project screening level
QAPP	Quality Assurance Project Plan
ROD	Record of Decision
SOP	Standard Operating Procedure
TCL	Target Compound List
Tetra Tech	Tetra Tech NUS, Inc.

1.0 INTRODUCTION

This Round 11 Interim Offshore Monitoring Program Data Package for Operable Unit (OU) 4 at Portsmouth Naval Shipyard (PNS) in Kittery, Maine was prepared for the Department of Navy, Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic by Tetra Tech NUS, Inc. (Tetra Tech) under the Comprehensive Long-Term Environmental Action Navy (CLEAN), Contract Number N62470-08-D-1001, Contract Task Order (CTO) WE29. This Data Package presents the results of the Round 11 sampling that was conducted in accordance with the Interim Offshore Monitoring Plan for OU4, Revision 1 (Tetra Tech, 2010).

The Interim Offshore Monitoring Program was initiated as required by the Interim Record of Decision (ROD) for OU4 (Navy, May 1999). The monitoring program was designed to provide offshore monitoring for the interim period before completion of the offshore Feasibility Study (FS) and the selection and implementation of the final remedy for OU4. At the time a final remedial action for OU4 is implemented, interim monitoring will be discontinued. However, the interim monitoring program was developed to provide a basis for any monitoring program that may be required as part of the final action. The Interim Offshore Monitoring Plan, Revision 1 (Tetra Tech, 2010) provides additional information on the monitoring program. Round 11 included all nine monitoring stations (MSs) that are currently in the Interim Offshore Monitoring Plan. The investigations conducted for the Round 11 sampling event are summarized below.

ROUND 11 SAMPLING

- Surface sediment samples were collected from MS-01 and analyzed for polycyclic aromatic hydrocarbons (PAHs).

- Surface sediment samples were collected from MS-03 and MS-04 for PAHs and copper.

- Surface sediment samples were collected from MS-05 for PAHs and select metals.

- Surface sediment samples were collected from MS-07, MS-08, and MS-09 and analyzed for the following parameters: select metals, PAHs, pesticides, dioxins/furans, and polychlorinated biphenyl (PCBs) congeners.

- One surface sediment sample was collected from MS-11 for copper, lead, and nickel.

- Six surface sediment samples were collected from MS-12. Three samples were analyzed for PAHs and lead and three were analyzed for lead only.

The sediment sampling was conducted by Aqua Survey of Flemington, New Jersey on April 19, 20, and 21, 2011, under the direction and supervision of Tetra Tech. The laboratory analysis was conducted by Katahdin Laboratory of Scarborough, Maine.

The rest of this data package provides the field and laboratory results for the Round 11 monitoring. The figures are presented after the reference section and consist of the following:

- Figure 1 shows an overview of PNS.
- Figure 2 shows the general locations of the monitoring stations that were monitored as part of Round 11.
- Figure 3 shows the locations of the sediment samples collected at MS-01
- Figure 4 shows the locations of the sediment samples collected at MS-03 and MS-04
- Figure 5 shows the locations of the sediment samples collected at MS-05.
- Figure 6 shows the locations of the sediment samples collect at MS-07, MS-08, and MS-09.
- Figure 7 shows the location of the sediment sample collected at MS-11.
- Figure 8 shows the locations of the sediment samples collected at MS-12.

2.0 SAMPLING INVESTIGATION

This section provides a summary of the sampling activities conducted during Round 11. Supporting documentation for the field activities is provided in appendices as follows: Appendix A contains copies of the Field Log Books; Appendix B contains Sample Log Sheets; Appendix C contains Chain of Custody Forms; and Appendix D contains the Data Quality Review, Data Validation Letters, and Database.

2.1 SAMPLING AND ANALYTICAL PROGRAM

The sampling program for Round 11 included collecting subtidal and intertidal sediment samples from nine MSs around PNS.

Table 2-1 provides a description of each sediment sample. Table 2-2 presents a summary of the analytical program for each sediment sample. Table 2-3 is a summary of the analytical program for the Quality Assurance/Quality Control samples that were collected (i.e., field duplicates, rinsate blanks, and source water blanks).

Sample collection methods and field activities are further discussed herein. Deviations from the monitoring program are discussed in Section 2.2. The laboratory analytical methods were in accordance with the Standard Operating Procedures (SOPs) provided in Appendix B of the Interim Offshore Monitoring Plan for OU4, Revision 1 (Tetra Tech, 2010)

2.1.1 Surface Sediment Sample Collection

For all samples at MS-01, MS-03, MS-04, MS-05, MS-07, MS-08, MS-09, MS-11, and MS-12, sediment grab samples were collected from 0 to 4 inches of the seafloor using a Ponar Dredge grab sampler (for those sample locations requiring a boat), or a stainless steel scoop (for those sample locations accessible by foot). Three grabs were collected from each sample location (and composited into one sample) when a Ponar Dredge was used. Figures 3 through 8 show the sampling locations at the MSs.

As each Ponar Dredge sample was retrieved, the water from the sampler was slowly drained immediately before collecting the sediment sample. Sediment in the grab (from 0 to 4 inches) was removed from the top of the sampler and placed in a chemically-cleaned, stainless steel mixing bowl. The sample bottles were filled after homogenization, as described below. For sample locations accessed by foot, the sample was collected using a stainless steel scoop. The sediment was placed in a stainless steel mixing bowl and homogenized.

For all sampling locations, when a sufficient volume of sediment from each sampling location was collected, it was mixed until homogenous and apportioned to the appropriate sample containers for shipment to the laboratory. Excess water in the sample jars was decanted after the sample was placed in the jar.

2.1.2 Surveying

Sediment sample locations were identified and mapped using a Global Positioning System (GPS) accurate to within 1 meter, in accordance with the Interim Offshore Monitoring Plan for OU4, Revision 1 (Tetra Tech, 2010).

2.2 SAMPLING PLAN DEVIATIONS/SIGNIFICANT NOTES

There was one minor deviation made during this sampling round. The only pesticide that was to be analyzed at MS-07, MS-08, and MS-09 was 4-4'-DDT; however, the entire Target Compound List (TCL) of pesticides was inadvertently reported. The results from this additional data were primarily nondetects; however, six pesticides besides 4,4-'DDT were detected. The detected results will be evaluated during the five-year review.

TABLE 2-1

STATION AND SAMPLE DESCRIPTIONS
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Location	Sample ID	Sampling Method	Sediment Description	Other Comments/Notes
Monitoring Station 01				
MS-1, Loc. 1	OU4-SD-M01-111B	Ponar Dredge	Brown/black, gravelly silt and sand	High tide, used boat to access location. 3 grabs
MS-1, Loc 2	OU4-SD-M01-211B	Ponar Dredge	Brown/black, gravelly silt and sand	High tide, used boat to access location. 3 grabs
MS-1, Loc 3	OU4-SD-M01-311B	Ponar Dredge	Brown/black, gravelly silt and sand	High tide, used boat to access location. 3 grabs
Monitoring Station 03				
MS-3, Loc. 1	OU4-SD-M03-111B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
MS-3, Loc. 2	OU4-SD-M03-211B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
MS-3, Loc. 3	OU4-SD-M03-311B	Ponar Dredge	Brown, silt and sand	High tide, used boat to access location. 3 grabs
Monitoring Station 04				
MS-4, Loc. 1	OU4-SD-M04-111B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
MS-4, Loc. 2	OU4-SD-M04-211B	Ponar Dredge	Brown, silt and sand	High tide, used boat to access location. 3 grabs
MS-4, Loc. 3	OU4-SD-M04-311B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
Monitoring Station 05				
MS-5, Loc. 1A	OU4-SD-M05-111B	Spoon/spatula	Brown/black, silt with little sand and trace gravel/shells	Low tide, walked to location
MS-5, Loc. 2A	OU4-SD-M05-211B	Spoon/spatula	Brown/black, silt with little sand	Low tide, walked to location
MS-5, Loc. 3	OU4-SD-M05-311B	Spoon/spatula	Brown/black, silt with little sand, trace gravel/shells	Low tide, walked to location
MS-5, Loc. 4	OU4-SD-M05-411B	Spoon/spatula	Brown/black, silt with little sand	Low tide, walked to location
Monitoring Station 07				
MS-7, Loc. 1	OU4-SD-M07-111B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
MS-7, Loc. 2	OU4-SD-M07-211B	Ponar Dredge	Brown/black, silt with some sand	High tide, used boat to access location. 3 grabs
MS-7, Loc. 3	OU4-SD-M07-311B	Ponar Dredge	Brown/black, silt with some sand	High tide, used boat to access location. 3 grabs
Monitoring Station 08				
MS-8, Loc. 1	OU4-SD-M08-111B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
MS-8, Loc. 2	OU4-SD-M08-211B	Ponar Dredge	Brown/black, silt with some sand	High tide, used boat to access location. 3 grabs
MS-8, Loc. 3	OU4-SD-M08-311B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
Monitoring Station 09				
MS-9, Loc. 1	OU4-SD-M09-111B	Spoon/spatula	Brown/black, silt and sand	Low tide, walked to location
MS-9, Loc. 2B	OU4-SD-M09-211B	Ponar Dredge	Brown/black, silt with some sand, organic material at surface	High tide, used boat to access location. 3 grabs
MS-9, Loc. 3	OU4-SD-M09-311B	Ponar Dredge	Brown/black, silt with some sand, organic material at surface	High tide, used boat to access location. 3 grabs
Monitoring Station 11				
MS-11, Loc. 3	OU4-SD-M11-311B	Spoon/spatula	Brown/black silt and sand, very gravelly location had to pick around rocks	Low tide, took boat to location
Monitoring Station 12				
MS-12, Loc. 1	OU4-SD-M12-111B	Spoon/spatula	Brown/black, silt and sand with some gravel	Low tide, walked to location
MS-12, Loc. 2	OU4-SD-M12-211B	Ponar Dredge	Brown/black, silt and sand with some gravel	High tide, used boat to access location. 3 grabs
MS-12, Loc. 3	OU4-SD-M12-311B	Ponar Dredge	Brown/black, sand and silt with gravel	High tide, used boat to access location. 3 grabs
MS-12, Loc. 4	OU4-SD-M12-411B	Ponar Dredge	Brown/black, sand and silt with gravel	High tide, used boat to access location. 3 grabs
MS-12, Loc. 5	OU4-SD-M12-511B	Ponar Dredge	Brown/black, sand and silt with gravel (first attempt was mostly gravel)	High tide, used boat to access location. 3 grabs
MS-12, Loc. 6	OU4-SD-M12-611B	Ponar Dredge	Brown/black, sand and silt with gravel	High tide, used boat to access location. 3 grabs

TABLE 2-2

SUMMARY OF ANALYTICAL PROGRAM FOR SEDIMENT SAMPLES
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Location	Sample ID	Depth (inches)	PAHs	Copper	Select Metals	Pesticides	PCB	Dioxin/ Furans	Lead	Nickel
Monitoring Station 01										
MS-1, Loc. 1	OU4-SD-M01-111B	0-4	X							
MS-1, Loc 2	OU4-SD-M01-211B	0-4	X							
MS-1, Loc 3	OU4-SD-M01-311B	0-4	X							
Monitoring Station 03										
MS-3, Loc. 1	OU4-SD-M03-111B	0-4	X	X						
MS-3, Loc. 2	OU4-SD-M03-211B	0-4	X	X						
MS-3, Loc. 3	OU4-SD-M03-311B	0-4	X	X						
Monitoring Station 04										
MS-4, Loc. 1	OU4-SD-M04-111B	0-4	X	X						
MS-4, Loc. 2	OU4-SD-M04-211B	0-4	X	X						
MS-4, Loc. 3	OU4-SD-M04-311B	0-4	X	X						
Monitoring Station 05										
MS-5, Loc. 1A	OU4-SD-M05-111B	0-4	X		X					
MS-5, Loc. 2A	OU4-SD-M05-211B	0-4	X		X					
MS-5, Loc. 3	OU4-SD-M05-311B	0-4	X		X					
MS-5, Loc. 4	OU4-SD-M05-411B	0-4	X		X					
Monitoring Station 07										
MS-7, Loc. 1	OU4-SD-M07-111B	0-4	X		X	X	X	X		
MS-7, Loc. 2	OU4-SD-M07-211B	0-4	X		X	X	X	X		
MS-7, Loc. 3	OU4-SD-M07-311B	0-4	X		X	X	X	X		
Monitoring Station 08										
MS-8, Loc. 1	OU4-SD-M08-111B	0-4	X		X	X	X	X		
MS-8, Loc. 2	OU4-SD-M08-211B	0-4	X		X	X	X	X		
MS-8, Loc. 3	OU4-SD-M08-311B	0-4	X		X	X	X	X		
Monitoring Station 09										
MS-9, Loc. 1	OU4-SD-M09-111B	0-4	X		X	X	X	X		
MS-9, Loc. 2B	OU4-SD-M09-211B	0-4	X		X	X	X	X		
MS-9, Loc. 3	OU4-SD-M09-311B	0-4	X		X	X	X	X		
Monitoring Station 11										
MS-11, Loc. 3	OU4-SD-M11-311B	0-4		X					X	X
Monitoring Station 12										
MS-12, Loc. 1	OU4-SD-M12-111B	0-4	X						X	
MS-12, Loc. 2	OU4-SD-M12-211B	0-4	X						X	
MS-12, Loc. 3	OU4-SD-M12-311B	0-4	X						X	
MS-12, Loc. 4	OU4-SD-M12-411B	0-4							X	
MS-12, Loc. 5	OU4-SD-M12-511B	0-4							X	
MS-12, Loc. 6	OU4-SD-M12-611B	0-4							X	

Notes:
PAHs - Polycyclic aromatic hydrocarbons
PCBs - Polychlorinated biphenyls
Select Metals includes: aluminum, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, silver, and zinc.

TABLE 2-3

SUMMARY OF ANALYTICAL PROGRAM FOR QA/QC SAMPLES
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Sample Number	Media	Select Metals	PAHs	Pesticides	PCBs	Dioxins/ Furans	Comment
Field Duplicates							
OU4-FD-041911-01	Sediment		X				Duplicate of OU4-SD-M01-111B
OU4-FD-041911-02	Sediment	X	X				Duplicate of OU4-SD-M05-111B
OU4-FD-041911-03	Sediment	X	X	X	X	X	Duplicate of OU4-SD-M07-111B
Rinsate Blanks							
OU4-RB-042011-01	Water	X	X	X	X	X	Stainless steel bowl
Source Water Blanks							
OU4-SB-042011-01	Water	X	X	X	X	X	

PAHs - Polycyclic aromatic hydrocarbons
PCBs - Polychlorinated biphenyls

3.0 RESULTS

The field results for the Round 11 Investigation are presented in this section. The analytical data were validated in accordance with the Interim Offshore Monitoring Plan for OU4, Revision 1 (Tetra Tech, 2010). Appendix D contains the data quality review, analytical database [on compact disc (CD)] and data validation letters (on CD).

3.1 FIELD RESULTS

Table 2-1 summarizes the field observations made at each sampling location, including the sediment description and other comments/notes. The sediment varied across the stations, consisting of silty clay at some stations and sandy silt at other stations. Figures 2 through 8 provide the monitoring station locations and sediment sample locations at PNS.

3.2 ANALYTICAL DATA

Tables 3-1 through 3-9 present the analytical data for the sediment samples that were collected at MSs-01, -03, -04, -05, -07, -08, -09, -11, and -12. Tables 3-10 through 3-18 present the descriptive statistics for the samples collected at MSs-01, -03, -04, -05, -07, -08, -09, -11, and -12. Appendix D contains the data quality review. No significant data quality concerns were identified and the data are considered acceptable for project use.

TABLE 3-1

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES AT MONITORING STATION 01
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE

	Monitoring Station 1			
Parameter	**111B**	**111B-DUP**	**211B**	**311B**
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)				
1,1-BIPHENYL	5.5 J	5.9 J	9.5 J	12 J
ACENAPHTHENE	37	8.4 J	6.7 J	83
ACENAPHTHYLENE	12 J	21 J	23 J	34
ANTHRACENE	68 J	32 J	37	210
BENZO(A)ANTHRACENE	290	200	310	970
BENZO(A)PYRENE	320	290	460	1000
BENZO(B)FLUORANTHENE	380	300	460	1100
BENZO(G,H,I)PERYLENE	190	190	230	570
BENZO(K)FLUORANTHENE	120	80	140	350
CHRYSENE	330	260	380	1000
DIBENZO(A,H)ANTHRACENE	58	43	68	150
DIBENZOTHIOPHENE	11 U	12 U	13 U	50
FLUORANTHENE	510	310	360	1700
FLUORENE	52	31	15 J	110
INDENO(1,2,3-CD)PYRENE	200	160	230	700 J
NAPHTHALENE	57	33	50	87
PERYLENE	58	41	73	180
PHENANTHRENE	380	410	130	960
PYRENE	660	950	690	2100
MISCELLANEOUS				
TOTAL SOLIDS	85	79	69	62

Notes:

MS01 includes the following samples: OU4-SD-M01-111B
OU4-FD-041911-01 (Field Duplicate of OU4-SD-M01-111B)
OU4-SD-M01-211B
OU4-SD-M01-311B

ug/kg- microgram per kilogram

TABLE 3-2

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 03
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 3		
Parameter	**111B**	**211B**	**311B**
METALS (MG/KG)			
COPPER	127	551	23.3
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)			
1,1-BIPHENYL	4.9 J	8.3 J	2.8 J
ACENAPHTHENE	26 J	97	21 J
ACENAPHTHYLENE	16 J	22 J	12 J
ANTHRACENE	76	310	55
BENZO(A)ANTHRACENE	400	780	200
BENZO(A)PYRENE	440	870	200
BENZO(B)FLUORANTHENE	640	1100	270
BENZO(G,H,I)PERYLENE	240	490	99
BENZO(K)FLUORANTHENE	220	420	110
CHRYSENE	490	970	240
DIBENZO(A,H)ANTHRACENE	82	160	36 J
DIBENZOTHIOPHENE	19 U	61	20 U
FLUORANTHENE	840	1900	420
FLUORENE	38 J	120	26 J
INDENO(1,2,3-CD)PYRENE	330	680	130
NAPHTHALENE	32 J	66	24 J
PERYLENE	100	220	45
PHENANTHRENE	390	1200	200
PYRENE	1100	2100	410
MISCELLANEOUS			
TOTAL SOLIDS	49	57	45

Notes:

MS03 includes the following samples: OU4-SD-M03-111B
OU4-SD-M03-211B
OU4-SD-M03-311B

mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-3

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 04
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 4		
Parameter	**111B**	**211B**	**311B**
METALS (MG/KG)			
COPPER	331	36.2	76.5
MISCELLANEOUS			
TOTAL SOLIDS	49	45	79
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)			
1,1-BIPHENYL	5.4 J	2.6 J	12 U
ACENAPHTHENE	25 J	7.5 J	3.6 J
ACENAPHTHYLENE	14 J	10 J	2.4 J
ANTHRACENE	150	24 J	22 J
BENZO(A)ANTHRACENE	340	140	110
BENZO(A)PYRENE	370	160	120
BENZO(B)FLUORANTHENE	520	200	170
BENZO(G,H,I)PERYLENE	170	75	50
BENZO(K)FLUORANTHENE	180	80	62
CHRYSENE	360	170	120
DIBENZO(A,H)ANTHRACENE	61	27 J	19 J
DIBENZOTHIOPHENE	20 U	22 U	12 U
FLUORANTHENE	620	240	240
FLUORENE	56	14 J	5.2 J
INDENO(1,2,3-CD)PYRENE	230	99	71
NAPHTHALENE	34 J	17 J	12 U
PERYLENE	83	22 U	27
PHENANTHRENE	380	120	78
PYRENE	750	300	240

Notes:

MS04 includes the following samples: OU4-SD-M04-111B
OU4-SD-M04-211B
OU4-SD-M04-311B

mg/kg- milligram per kilogram

ug/kg- microgram per kilogram

TABLE 3-4

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 05
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 5				
Parameter	**111B**	**111B-DUP**	**211B**	**311B**	**411B**
METALS (MG/KG)					
ALUMINUM	14500	13700	14100	10200	13700
ARSENIC	28.4	26.4	16.2	8.2	13.8
CADMIUM	0.79 J	0.77 J	0.32 J	0.32 J	0.5 J
CHROMIUM	55.7	51.6	58.2	40.6	52.1
COPPER	296 J	272 J	72.1	13.1 J	57 J
IRON	27000	24400	23100	15000	20500
LEAD	270	250	78.1	21.6	57.5
MANGANESE	267 J	249 J	248	153 J	219 J
MERCURY	0.74	0.65	0.38	0.1	0.27
NICKEL	40.1	37.1	22.6	20.9	20.9
SILVER	0.94 J	0.89 J	0.34 J	0.26 J	0.3 J
ZINC	304 J	282 J	123	64.4 J	111 J
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)					
1,1-BIPHENYL	2.5 J	2.7 J	22 U	17 U	3.4 J
ACENAPHTHENE	62	13 J	12 J	6.4 J	51
ACENAPHTHYLENE	8.2 J	6.2 J	8.6 J	6.4 J	9.7 J
ANTHRACENE	130 J	42 J	40 J	17 J	140
BENZO(A)ANTHRACENE	410 J	170 J	200	100	390
BENZO(A)PYRENE	390 J	190 J	230	110	380
BENZO(B)FLUORANTHENE	480 J	250 J	340	150	500
BENZO(G,H,I)PERYLENE	180 J	98 J	130	47	190
BENZO(K)FLUORANTHENE	190 J	97 J	120	51	180
CHRYSENE	420 J	200 J	240	120	400
DIBENZO(A,H)ANTHRACENE	60	34 J	42 J	16 J	65
DIBENZOTHIOPHENE	42	18 U	22 U	17 U	24 U
FLUORANTHENE	960 J	350 J	470	170	880
FLUORENE	71	19 J	18 J	9 J	61
INDENO(1,2,3-CD)PYRENE	240 J	130 J	170	60	240 J
NAPHTHALENE	8.8 J	9 J	6.8 J	17 U	13 J
PERYLENE	87	44	50 J	17 U	82
PHENANTHRENE	700 J	170 J	210	90	580
PYRENE	1000 J	460 J	510	270	1100
MISCELLANEOUS					
TOTAL SOLIDS	48	54	40	51	40

Notes:

MS05 includes the following samples:
OU4-SD-M05-111B
OU4-FD-041911-02 (Field Duplicate of OU4-SD-M05-111B)
OU4-SD-M05-211B
OU4-SD-M05-311B
OU4-SD-M05-311B

mg/kg- milligram per kilogram

ug/kg- microgram per kilogram

TABLE 3-5

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 07
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 7			
Parameter	**111B**	**111B-DUP**	**211B**	**311B**
DIOXINS/FURANS (NG/KG)				
1,2,3,4,6,7,8,9-OCDD	239	266	325	675
1,2,3,4,6,7,8,9-OCDF	13.2	14.7	27	91.8
1,2,3,4,6,7,8-HPCDD	23.8	28.7	44.6	68.2
1,2,3,4,6,7,8-HPCDF	6.79	7.79	12.7	15.6
1,2,3,4,7,8,9-HPCDF	0.245 J	0.513 U	0.541 J	0.79 J
1,2,3,4,7,8-HXCDD	0.358 J	0.315 J	0.562 J	0.586 J
1,2,3,4,7,8-HXCDF	0.495 U	0.632 U	0.88 J	0.821 J
1,2,3,6,7,8-HXCDD	1.14 J	1.4 J	2.14 J	2.17 J
1,2,3,6,7,8-HXCDF	0.42 J	0.57 J	0.62 U	0.526 U
1,2,3,7,8,9-HXCDD	0.821 U	0.714 U	1.48 J	1.3 U
1,2,3,7,8,9-HXCDF	0.211 U	0.672 U	0.541 U	0.618 U
1,2,3,7,8-PECDD	0.241 U	0.686 U	0.425 J	0.477 J
1,2,3,7,8-PECDF	0.268 J	0.315 U	0.473 J	0.37 U
2,3,4,6,7,8-HXCDF	0.651 J	0.741 U	0.869 U	0.969 U
2,3,4,7,8-PECDF	0.5 J	0.679 J	1.02 U	0.868 U
2,3,7,8-TCDD	0.167 U	0.424 U	0.311 U	0.29 U
2,3,7,8-TCDF	0.812 U	0.869 U	1.3 U	1.42 U
TOTAL HPCDD	69.5	83.4	120	169
TOTAL HPCDF	20.5 J	21.4	44.3 J	67.5 J
TOTAL HXCDD	12.9 J	13 J	21.1 J	22.2 J
TOTAL HXCDF	8.02 U	7.99 U	13.9 U	13.6 U
TOTAL PECDD	2.75 J	3.14 J	4.41 J	4.76
TOTAL PECDF	4.09 J	5.11 J	6.84 J	6.49 J
TOTAL TCDD	1.52	1.59	1.61 J	3.08 J
TOTAL TCDF	3.34 U	1.9 U	4.23 U	5.07 U
METALS (MG/KG)				
ALUMINUM	9530	8800	14900	14700
ARSENIC	8.8	8.1	13.5	12.6
CADMIUM	0.23 J	0.18 J	0.79 J	0.63 J
CHROMIUM	31.9	32.8	72.6	57.5
COPPER	15.7 J	19.8 J	27.7	20.1
IRON	15200	13900	23400	20800
LEAD	17.3	18.2	41.7	31.5
MANGANESE	131 J	127 J	235	234
MERCURY	0.05	0.05	0.28	0.16
NICKEL	18.8	17.9	21	19.3
SILVER	0.16 J	0.16 J	0.64 J	0.57 J
ZINC	54.9 J	57 J	101	84.4
MISCELLANEOUS				
TOTAL SOLIDS	65	65	34	35
PCBs (UG/KG)				
PCB-101	1.5 U	0.76 U	1.4 U	1.4 U
PCB-105	3 U	1.5 U	2.8 U	2.7 U
PCB-114	1.5 U	0.76 U	1.4 U	1.2 J
PCB-118	1.5 U	0.76 U	1.4 J	0.71 J
PCB-123	1.5 U	0.76 U	1.4 U	1.4 U
PCB-126	1.5 U	0.76 U	1.4 U	1.4 U
PCB-128	1.5 U	0.76 U	1.4 U	1.4 U
PCB-138	1.5 U	0.76 U	1.4 U	1.4 U
PCB-153	1.5 U	0.76 U	1.9 U	1.5 U
PCB-156	1.5 U	0.76 U	1.4 U	1.4 U
PCB-157	1.5 U	0.76 U	1.4 U	1.4 U
PCB-167	1.5 U	0.76 U	1.4 U	1.4 U
PCB-169	1.5 U	0.76 U	1.4 U	1.4 U
PCB-170	1.5 U	0.76 U	0.74 U	0.75 U
PCB-18	6 U	3 U	5.6 U	5.4 U
PCB-180	1.5 U	0.76 U	1.9 J	1.8 J
PCB-187	1.5 U	0.76 U	1.4 U	1.4 U
PCB-189	1.5 UJ	0.76 UJ	1.4 UJ	1.4 UJ
PCB-195	1.5 U	0.76 U	1.4 U	1.4 U

TABLE 3-5

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 07
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 7			
Parameter	**111B**	**111B-DUP**	**211B**	**311B**
PCB-206	1.5 U	0.76 U	0.83 J	0.34 J
PCB-209	1.5 U	0.76 U	1.4 U	1.4 U
PCB-28	1.5 U	0.76 U	1.4 U	1.4 U
PCB-44	1.5 U	0.76 U	1.4 U	1.4 U
PCB-52	1.5 U	0.76 U	1.4 U	1.4 U
PCB-66	1.5 U	0.76 U	3 J	1.4 U
PCB-77	1.5 UJ	0.76 UJ	3.1 J	1.4 UJ
PCB-8	1.5 U	0.76 U	1.4 U	1.4 U
PCB-81	1.5 U	0.76 U	1.4 U	1.4 U
PESTICIDES (UG/KG)				
2,4'-DDD	2.2 U	2.3 U	4.8 U	4.6 U
2,4'-DDE	2.2 U	2.3 U	4.8 U	4.6 U
2,4'-DDT	2.2 U	0.61 J	4.8 U	4.6 U
4,4'-DDD	2.2 J	1.5 J	2.6 J	4.6 U
4,4'-DDE	1.9 J	1.6 J	4.8 U	4.6 U
4,4'-DDT	3.2 J	1.6 J	4.8 U	4.6 U
ALDRIN	1.1 U	1.2 U	2.5 U	2.4 U
ALPHA-BHC	1.1 U	1.2 U	2.5 U	2.4 U
ALPHA-CHLORDANE	1.1 U	1.2 U	2.5 U	2.4 U
BETA-BHC	1.1 U	1.2 U	2.5 U	2.4 U
CIS-NONACHLOR	2.2 U	2.3 U	4.8 U	4.6 U
DELTA-BHC	1.1 UJ	1.2 UJ	2.5 UJ	2.4 UJ
DIELDRIN	2.2 U	2.3 U	4.8 U	4.6 U
ENDOSULFAN II	2.2 U	2.3 U	4.8 U	4.6 U
ENDRIN	2.2 UJ	2.3 UJ	4.8 UJ	4.6 UJ
GAMMA-BHC (LINDANE)	1.1 U	1.2 U	2.5 U	2.4 U
GAMMA-CHLORDANE	1.1 U	1.2 U	2.5 U	2.4 U
HEPTACHLOR	1.1 U	1.2 U	2.5 U	2.4 U
HEPTACHLOR EPOXIDE	0.64 J	0.7 J	2.5 U	2.4 U
HEXACHLOROBENZENE	2.2 U	2.3 U	4.8 U	4.6 U
MIREX	2.2 U	2.3 U	4.8 U	4.6 U
OXYCHLORDANE	2.2 U	2.3 U	4.8 U	4.6 U
TRANS-NONACHLOR	2.2 U	2.3 U	4.8 U	4.6 U
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)				
1,1-BIPHENYL	14 U	14 U	28 U	25 U
ACENAPHTHENE	3 J	14 U	9.3 J	6 J
ACENAPHTHYLENE	2.4 J	1.9 J	17 J	12 J
ANTHRACENE	11 J	9.6 J	48 J	29 J
BENZO(A)ANTHRACENE	70	61	230	150
BENZO(A)PYRENE	83	74	250	170
BENZO(B)FLUORANTHENE	120	100	300	210
BENZO(G,H,I)PERYLENE	57	48	110	81
BENZO(K)FLUORANTHENE	40	35	100	76
CHRYSENE	90	80	240	160
DIBENZO(A,H)ANTHRACENE	18 J	15 J	42 J	28 J
DIBENZOTHIOPHENE	14 U	14 U	28 U	25 U
FLUORANTHENE	160	140	340	240
FLUORENE	5.8 J	14 U	17 J	13 J
INDENO(1,2,3-CD)PYRENE	70	60	140	100
NAPHTHALENE	14 U	14 U	20 J	16 J
PERYLENE	14 U	14 U	28 U	25 U
PHENANTHRENE	73	59	140	110
PYRENE	230	210	450	390

Notes:

MS07 includes the following samples:
OU4-SD-M07-111B
OU4-SD-FD-041911-03 (Field Duplicate of OU4-SD-M07-111B)
OU4-SD-M07-211B
OU4-SD-M07-311B

PCB-polychlorinated biphenyl
ng/kg-nanogram per kilogram
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-6

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 08
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 8		
Parameter	**111B**	**211B**	**311B**
DIOXINS/FURANS (NG/KG)			
1,2,3,4,6,7,8,9-OCDD	117	378	109
1,2,3,4,6,7,8,9-OCDF	7.99	30	7.22
1,2,3,4,6,7,8-HPCDD	15.7	56.9	13.6
1,2,3,4,6,7,8-HPCDF	5.28 J	22.3	4.45
1,2,3,4,7,8,9-HPCDF	0.519 U	1.52 J	0.256 J
1,2,3,4,7,8-HXCDD	0.622 U	1.04 J	0.21 J
1,2,3,4,7,8-HXCDF	0.49 U	3.32 U	0.408 J
1,2,3,6,7,8-HXCDD	0.659 U	3.11	0.777 J
1,2,3,6,7,8-HXCDF	0.503 J	2.76	0.352 U
1,2,3,7,8,9-HXCDD	0.669 U	1.68 J	0.527 J
1,2,3,7,8,9-HXCDF	0.591 U	0.926 J	0.204 U
1,2,3,7,8-PECDD	0.357 U	0.975 J	0.238 J
1,2,3,7,8-PECDF	0.517 U	1.47 J	0.222 J
2,3,4,6,7,8-HXCDF	0.63 J	3.53	0.674 J
2,3,4,7,8-PECDF	0.683 U	3.92	0.746 U
2,3,7,8-TCDD	0.415 U	0.231 U	0.166 U
2,3,7,8-TCDF	0.864 U	2.41 U	0.686 U
TOTAL HPCDD	47.6	157	37.5
TOTAL HPCDF	10.8 J	58.9 J	12.8
TOTAL HXCDD	6.39	34.4 J	8.06 J
TOTAL HXCDF	6.59 U	37.6 J	7.43 U
TOTAL PECDD	1.25 J	16.1 J	2.08 J
TOTAL PECDF	4.45 J	29.8 J	4.78 J
TOTAL TCDD	0.918	7.59 J	0.881 J
TOTAL TCDF	2.99 U	27.6 J	3.12 U
METALS (MG/KG)			
ALUMINUM	8330	12700	7250
ARSENIC	13.2	16.2	14.4
CADMIUM	0.19 J	0.35 J	0.1 J
CHROMIUM	28.9	52.3	22.2
COPPER	43.4 J	113	26.4 J
IRON	15200	21300	13800
LEAD	39.7	102	25.4
MANGANESE	129 J	197	123 J
MERCURY	0.09	0.33	0.06
NICKEL	15.2	26.9	10.1
SILVER	0.18 J	0.43 J	0.16 J
ZINC	86.3 J	139	47.7 J
MISCELLANEOUS			
TOTAL SOLIDS	68	53	69
PCBS (UG/KG)			
PCB-101	0.72 U	1.6 J	0.72 U
PCB-105	1.4 U	1.8 U	1.4 U
PCB-114	0.72 U	0.9 U	0.72 U
PCB-118	0.44 J	1.8 J	0.72 U
PCB-123	0.72 U	0.9 U	0.72 U
PCB-126	0.72 U	0.9 U	0.72 U
PCB-128	0.72 U	0.9 U	0.72 U
PCB-138	0.72 U	0.9 U	0.72 U
PCB-153	0.72 U	0.9 U	0.72 U
PCB-156	0.72 U	0.9 U	0.72 U
PCB-157	0.72 U	0.9 U	0.72 U
PCB-167	0.72 U	0.9 U	0.72 U
PCB-169	0.72 U	3.2 J	0.72 U
PCB-170	0.7 U	0.9 U	1.2 U
PCB-18	2.9 U	3.6 U	2.9 U
PCB-180	1.2 J	4.3 J	2.3 J
PCB-187	0.72 U	1.7 J	1.2 J
PCB-189	0.72 UJ	0.9 UJ	0.72 UJ
PCB-195	0.72 U	0.9 U	0.72 U

TABLE 3-6

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 08
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 8		
Parameter	**111B**	**211B**	**311B**
PCB-206	0.36 J	2.4 J	0.21 J
PCB-209	0.72 U	0.72 J	0.72 U
PCB-28	0.72 U	0.9 U	0.72 U
PCB-44	0.72 U	0.46 J	0.72 U
PCB-52	0.72 U	0.87 J	0.72 U
PCB-66	0.61 J	2.4	0.45 J
PCB-77	0.72 UJ	0.9 UJ	0.72 UJ
PCB-8	0.72 U	0.9 U	0.72 U
PCB-81	0.62 J	3.2 J	0.72 U
PESTICIDES (UG/KG)			
2,4'-DDD	6 J	3.1 U	2.3 U
2,4'-DDE	2.4 U	3.1 U	2.3 U
2,4'-DDT	2.4 U	3.1 U	2.3 U
4,4'-DDD	16	44	4.2 J
4,4'-DDE	2.8 J	7 J	0.92 J
4,4'-DDT	2.7 J	16	2.3 U
ALDRIN	1.2 U	1.6 U	1.2 U
ALPHA-BHC	1.2 U	1.6 U	1.2 U
ALPHA-CHLORDANE	1.2 U	1.6 U	1.2 U
BETA-BHC	1.2 U	1.6 U	1.2 U
CIS-NONACHLOR	2.4 U	3.1 U	2.3 U
DELTA-BHC	1.2 UJ	1.6 UJ	1.2 UJ
DIELDRIN	2.4 U	3.1 U	2.3 U
ENDOSULFAN II	2.4 U	3.1 U	2.3 U
ENDRIN	2.4 UJ	3.1 UJ	2.3 UJ
GAMMA-BHC (LINDANE)	1.2 U	1.6 U	1.2 U
GAMMA-CHLORDANE	1.2 U	1.6 U	1.2 U
HEPTACHLOR	1.2 U	1.6 U	1.2 U
HEPTACHLOR EPOXIDE	0.7 J	1.7 J	1.2 U
HEXACHLOROBENZENE	0.6 J	3.1 U	2.3 U
MIREX	2.4 U	3.1 U	2.3 U
OXYCHLORDANE	2.4 U	3.1 U	2.3 U
TRANS-NONACHLOR	2.4 U	3.1 U	2.3 U
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)			
1,1-BIPHENYL	14 U	3.4 J	13 U
ACENAPHTHENE	2.9 J	26 J	13 U
ACENAPHTHYLENE	2.8 J	7.1 J	13 U
ANTHRACENE	13 J	60	5 J
BENZO(A)ANTHRACENE	63	200	26 J
BENZO(A)PYRENE	73	210	30
BENZO(B)FLUORANTHENE	98	280	44
BENZO(G,H,I)PERYLENE	42	99	17 J
BENZO(K)FLUORANTHENE	32	94	17 J
CHRYSENE	81	220	34
DIBENZO(A,H)ANTHRACENE	13 J	38	5.5 J
DIBENZOTHIOPHENE	14 U	18 U	13 U
FLUORANTHENE	150 J	380	62
FLUORENE	4.7 J	35 J	13 U
INDENO(1,2,3-CD)PYRENE	50	120	23 J
NAPHTHALENE	14 U	16 J	13 U
PERYLENE	14 U	42	13 U
PHENANTHRENE	58	240	22 J
PYRENE	150	460	68

Notes:
MS08 includes the following samples: OU4-SD-M08-111B
OU4-SD-M08-211B
OU4-SD-M08-311B

PCB-polychlorinated biphenyl
ng/kg-nanogram per kilogram
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-7

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 09
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 9		
Parameter	**111B**	**211B**	**311B**
DIOXINS/FURANS (NG/KG)			
1,2,3,4,6,7,8,9-OCDD	475 J	1720 J	511 J
1,2,3,4,6,7,8,9-OCDF	34.2 J	106 J	32.4 J
1,2,3,4,6,7,8-HPCDD	62.1 J	218 J	67.4 J
1,2,3,4,6,7,8-HPCDF	20.2 J	72.9 J	22.4 J
1,2,3,4,7,8,9-HPCDF	1.56 J	5.33 J	1.32 J
1,2,3,4,7,8-HXCDD	1.08 UJ	4.76 J	1.22 J
1,2,3,4,7,8-HXCDF	2.94 U	7.36 J	3.14 J
1,2,3,6,7,8-HXCDD	3.43 J	9.31 J	3.87 J
1,2,3,6,7,8-HXCDF	2.18 J	6.09 J	2.38 J
1,2,3,7,8,9-HXCDD	1.81 J	5.86 J	2.4 U
1,2,3,7,8,9-HXCDF	0.914 UJ	2.13 J	1.02 J
1,2,3,7,8-PECDD	0.935 UJ	2.93 J	0.78 J
1,2,3,7,8-PECDF	1.85 J	3.57 U	2.43 UJ
2,3,4,6,7,8-HXCDF	3.16 J	8.61 J	3.48 J
2,3,4,7,8-PECDF	3.22 U	7.38 U	3.57 U
2,3,7,8-TCDD	0.791 UJ	0.607 J	0.679 UJ
2,3,7,8-TCDF	2.94 U	4.81 U	2.8 U
TOTAL HPCDD	225 J	611 J	197 J
TOTAL HPCDF	59.1 J	204 J	62.5 J
TOTAL HXCDD	33.6 J	119 J	42.2 J
TOTAL HXCDF	28.9 J	93.8 J	36.4 J
TOTAL PECDD	10.4 J	38.9 J	14.3 J
TOTAL PECDF	27 J	65.7 J	26.6 J
TOTAL TCDD	3.7 J	18.9 J	5.83 J
TOTAL TCDF	26.3 J	57.4 J	33 J
METALS (MG/KG)			
ALUMINUM	18400 J	16800 J	18400 J
ARSENIC	18 J	16.9 J	17.8 J
CADMIUM	0.53 J	0.85 J	0.75 J
CHROMIUM	79.6 J	86 J	88.8 J
COPPER	112 J	93.2 J	99 J
IRON	28000 J	27100 J	28500 J
LEAD	78.1 J	133 J	93.4 J
MANGANESE	284 J	284 J	301 J
MERCURY	0.28 J	0.45 J	0.46 J
NICKEL	34 J	31.8 J	35.1 J
SILVER	0.73 J	0.52 J	0.56 J
ZINC	149 J	173 J	162 J
MISCELLANEOUS			
TOTAL SOLIDS	28	28	26
PCBS (UG/KG)			
PCB-101	3.2 J	1.8 UJ	5 J
PCB-105	2.6 J	3.5 UJ	3.5 UJ
PCB-114	1.7 UJ	1.8 UJ	1.8 UJ
PCB-118	4.7 J	1.6 J	1.7 J
PCB-123	1.7 UJ	1.8 UJ	1.8 UJ
PCB-126	1.7 UJ	1.8 UJ	1.8 UJ
PCB-128	1.7 UJ	1.8 UJ	1.8 UJ
PCB-138	3.3 J	1.8 UJ	1.8 UJ
PCB-153	4.2 U	2.6 U	3.6 U
PCB-156	1.7 UJ	1.8 UJ	1.8 UJ
PCB-157	1.7 UJ	1.8 UJ	1.8 UJ
PCB-167	1.7 UJ	1.8 UJ	1.8 UJ
PCB-169	1.7 UJ	2.1 J	3.3 J
PCB-170	1.7 UJ	1.8 UJ	1.8 UJ
PCB-18	6.8 UJ	7.1 UJ	7 UJ
PCB-180	3.4 J	1.8 UJ	3.8 J
PCB-187	2.9 J	1.8 UJ	1.8 UJ
PCB-189	1.7 UJ	1.8 UJ	1.8 UJ
PCB-195	1.7 UJ	1.8 UJ	1.8 UJ
PCB-206	29 J	1.8 UJ	7.2 J

TABLE 3-7

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 09
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 9		
Parameter	**111B**	**211B**	**311B**
PCB-209	6.7 J	1.8 UJ	1.6 J
PCB-28	1.7 UJ	1.8 UJ	1.8 UJ
PCB-44	1.7 UJ	1.8 UJ	0.7 J
PCB-52	1.7 UJ	1.8 UJ	0.93 J
PCB-66	2.8 J	1.8 UJ	3 J
PCB-77	1.7 UJ	4.2 J	8.9 J
PCB-8	1.7 UJ	1.8 UJ	1.8 UJ
PCB-81	1.7 UJ	1.8 UJ	1.8 UJ
PESTICIDES (UG/KG)			
2,4'-DDD	5.6 UJ	5.9 UJ	6 UJ
2,4'-DDE	5.6 UJ	5.9 UJ	6 UJ
2,4'-DDT	5.6 UJ	5.9 UJ	6 UJ
4,4'-DDD	7 J	5.9 UJ	5 J
4,4'-DDE	3.9 J	5.9 UJ	3 J
4,4'-DDT	4.1 J	5.9 UJ	6 UJ
ALDRIN	2.9 UJ	3 UJ	3.1 UJ
ALPHA-BHC	2.9 UJ	3 UJ	3.1 UJ
ALPHA-CHLORDANE	2.9 UJ	3 UJ	3.1 UJ
BETA-BHC	2.9 UJ	3 UJ	3.1 UJ
CIS-NONACHLOR	5.6 UJ	5.9 UJ	6 UJ
DELTA-BHC	2.9 UJ	3 UJ	3.1 UJ
DIELDRIN	5.6 UJ	5.9 UJ	6 UJ
ENDOSULFAN II	5.6 UJ	5.9 UJ	6 UJ
ENDRIN	5.6 UJ	5.9 UJ	6 UJ
GAMMA-BHC (LINDANE)	2.9 UJ	3 UJ	3.1 UJ
GAMMA-CHLORDANE	2.9 UJ	3 UJ	3.1 UJ
HEPTACHLOR	2.9 UJ	3 UJ	3.1 UJ
HEPTACHLOR EPOXIDE	2.9 UJ	3 UJ	3.1 UJ
HEXACHLOROBENZENE	5.6 UJ	2.1 J	6 UJ
MIREX	5.6 UJ	5.9 UJ	6 UJ
OXYCHLORDANE	5.6 UJ	5.9 UJ	6 UJ
TRANS-NONACHLOR	5.6 UJ	5.9 UJ	6 UJ
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)			
1,1-BIPHENYL	34 UJ	5.8 J	5 J
ACENAPHTHENE	10 J	41 J	39 J
ACENAPHTHYLENE	5.8 J	16 J	21 J
ANTHRACENE	57 J	120 J	100 J
BENZO(A)ANTHRACENE	150 J	470 J	450 J
BENZO(A)PYRENE	160 J	470 J	450 J
BENZO(B)FLUORANTHENE	240 J	600 J	600 J
BENZO(G,H,I)PERYLENE	77 J	210 J	230 J
BENZO(K)FLUORANTHENE	88 J	240 J	220 J
CHRYSENE	200 J	480 J	430 J
DIBENZO(A,H)ANTHRACENE	26 J	74 J	76 J
DIBENZOTHIOPHENE	34 UJ	28 UJ	36 UJ
FLUORANTHENE	350 J	860 J	880 J
FLUORENE	17 J	53 J	48 J
INDENO(1,2,3-CD)PYRENE	110 J	290 J	300 J
NAPHTHALENE	34 UJ	34 J	35 J
PERYLENE	34 UJ	110 J	100 J
PHENANTHRENE	140 J	460 J	430 J
PYRENE	440 J	980 J	950 J

Notes:

MS09 includes the following samples: OU4-SD-M09-111B
OU4-SD-M09-211B
OU4-SD-M09-311B

PCB-polychlorinated biphenyl
ng/kg-nanogram per kilogram
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-8

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 11
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 11
Parameter	**311B**
METALS (MG/KG)	
COPPER	88.4 J
LEAD	56.5
NICKEL	34.9
MISCELLANEOUS	
TOTAL SOLIDS	69

Notes:

MS11 includes the following samples: OU4-SD-M11-311B

mg/kg-milligram per kilogram

TABLE 3-9

SUMMARY OF ANALYTICAL DATA FOR SEDIMENT SAMPLES
AT MONITORING STATION 12
ROUND 11 - INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

	Monitoring Station 12					
Parameter	**111B**	**211B**	**311B**	**411B**	**511B**	**611B**
METALS (MG/KG)						
LEAD	199	139	97	344	8730	346
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)						
1,1-BIPHENYL	27 J	9 J	26 J	NA	NA	NA
ACENAPHTHENE	660 J	220	560	NA	NA	NA
ACENAPHTHYLENE	17 U	20 J	23 U	NA	NA	NA
ANTHRACENE	860	250	800 J	NA	NA	NA
BENZO(A)ANTHRACENE	2400	900 J	2100	NA	NA	NA
BENZO(A)PYRENE	2300	920 J	2000	NA	NA	NA
BENZO(B)FLUORANTHENE	3000	1200 J	2400	NA	NA	NA
BENZO(G,H,I)PERYLENE	860	350	840 J	NA	NA	NA
BENZO(K)FLUORANTHENE	1600	490	330	NA	NA	NA
CHRYSENE	3000	1200 J	2700	NA	NA	NA
DIBENZO(A,H)ANTHRACENE	410	130	320	NA	NA	NA
DIBENZOTHIOPHENE	280	100	23 U	NA	NA	NA
FLUORANTHENE	6800	2500 J	5600	NA	NA	NA
FLUORENE	600 J	190	600	NA	NA	NA
INDENO(1,2,3-CD)PYRENE	1400 J	510	1300	NA	NA	NA
NAPHTHALENE	220	71	220	NA	NA	NA
PERYLENE	470 J	190	400	NA	NA	NA
PHENANTHRENE	4900	1600 J	4500	NA	NA	NA
PYRENE	6400	2300 J	5600	NA	NA	NA
MISCELLANEOUS						
TOTAL SOLIDS	56	32	36	56	55	50

Notes:
MS12 includes the following samples: OU4-SD-M12-111B
OU4-SD-M12-211B
OU4-SD-M12-311B
OU4-SD-M12-411B
OU4-SD-M12-511B
OU4-SD-M12-611B

mg/kg-milligram per kilogram
ug/kg-microgram per kilogram

TABLE 3-10

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 01
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
MISCELLANEOUS							
TOTAL SOLIDS	4/4	62	85	OU4-SD-M01-111B	73.75	10.24	0.14
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)							
1,1-BIPHENYL	4/4	5.5	12	OU4-SD-M01-311B	8.225	3.09	0.38
ACENAPHTHENE	4/4	6.7	83	OU4-SD-M01-311B	33.775	35.64	1.06
ACENAPHTHYLENE	4/4	12	34	OU4-SD-M01-311B	22.5	9.04	0.40
ANTHRACENE	4/4	32	210	OU4-SD-M01-311B	86.75	83.70	0.96
BENZO(A)ANTHRACENE	4/4	200	970	OU4-SD-M01-311B	442.5	354.91	0.80
BENZO(A)PYRENE	4/4	290	1000	OU4-SD-M01-311B	517.5	330.09	0.64
BENZO(B)FLUORANTHENE	4/4	300	1100	OU4-SD-M01-311B	560	365.88	0.65
BENZO(G,H,I)PERYLENE	4/4	190	570	OU4-SD-M01-311B	295	184.30	0.62
BENZO(K)FLUORANTHENE	4/4	80	350	OU4-SD-M01-311B	172.5	120.93	0.70
CHRYSENE	4/4	260	1000	OU4-SD-M01-311B	492.5	341.89	0.69
DIBENZO(A,H)ANTHRACENE	4/4	43	150	OU4-SD-M01-311B	79.75	47.95	0.60
DIBENZOTHIOPHENE	1/4	50	50	OU4-SD-M01-311B	17	22.00	1.29
FLUORANTHENE	4/4	310	1700	OU4-SD-M01-311B	720	658.84	0.92
FLUORENE	4/4	15	110	OU4-SD-M01-311B	52	41.53	0.80
INDENO(1,2,3-CD)PYRENE	4/4	160	700	OU4-SD-M01-311B	322.5	253.29	0.79
NAPHTHALENE	4/4	33	87	OU4-SD-M01-311B	56.75	22.54	0.40
PERYLENE	4/4	41	180	OU4-SD-M01-311B	88	62.71	0.71
PHENANTHRENE	4/4	130	960	OU4-SD-M01-311B	470	349.95	0.74
PYRENE	4/4	660	2100	OU4-SD-M01-311B	1100	679.26	0.62

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
ug/kg- microgram per kilogram

TABLE 3-11

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 03
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
METALS (mg/kg)							
COPPER	3/3	23.3	551	OU4-SD-M03-211B	233.77	279.58	1.20
MISCELLANEOUS							
TOTAL SOLIDS	3/3	45	57	OU4-SD-M03-211B	50.33	6.11	0.12
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)							
1,1-BIPHENYL	3/3	2.8	8.3	OU4-SD-M03-211B	5.33	2.78	0.52
ACENAPHTHENE	3/3	21	97	OU4-SD-M03-211B	48.00	42.51	0.89
ACENAPHTHYLENE	3/3	12	22	OU4-SD-M03-211B	16.67	5.03	0.30
ANTHRACENE	3/3	55	310	OU4-SD-M03-211B	147.00	141.55	0.96
BENZO(A)ANTHRACENE	3/3	200	780	OU4-SD-M03-211B	460.00	294.62	0.64
BENZO(A)PYRENE	3/3	200	870	OU4-SD-M03-211B	503.33	339.46	0.67
BENZO(B)FLUORANTHENE	3/3	270	1100	OU4-SD-M03-211B	670.00	415.81	0.62
BENZO(G,H,I)PERYLENE	3/3	99	490	OU4-SD-M03-211B	276.33	198.02	0.72
BENZO(K)FLUORANTHENE	3/3	110	420	OU4-SD-M03-211B	250.00	157.16	0.63
CHRYSENE	3/3	240	970	OU4-SD-M03-211B	566.67	370.99	0.65
DIBENZO(A,H)ANTHRACENE	3/3	36	160	OU4-SD-M03-211B	92.67	62.68	0.68
DIBENZOTHIOPHENE	1/3	61	61	OU4-SD-M03-211B	26.83	29.59	1.10
FLUORANTHENE	3/3	420	1900	OU4-SD-M03-211B	1053.33	762.71	0.72
FLUORENE	3/3	26	120	OU4-SD-M03-211B	61.33	51.16	0.83
INDENO(1,2,3-CD)PYRENE	3/3	130	680	OU4-SD-M03-211B	380.00	278.39	0.73
NAPHTHALENE	3/3	24	66	OU4-SD-M03-211B	40.67	22.30	0.55
PERYLENE	3/3	45	220	OU4-SD-M03-211B	121.67	89.49	0.74
PHENANTHRENE	3/3	200	1200	OU4-SD-M03-211B	596.67	531.07	0.89
PYRENE	3/3	410	2100	OU4-SD-M03-211B	1203.33	849.73	0.71

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
ug/kg- microgram per kilogram
mg/kg-milligram per kilogram

TABLE 3-12

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 04
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
METALS (mg/kg)							
COPPER	3/3	36.2	331	OU4-SD-M04-111B	147.90	159.84	1.08
MISCELLANEOUS							
TOTAL SOLIDS	3/3	45	79	OU4-SD-M04-311B	57.67	18.58	0.32
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)							
1,1-BIPHENYL	2/3	2.6	5.4	OU4-SD-M04-111B	4.67	1.81	0.39
ACENAPHTHENE	3/3	3.6	25	OU4-SD-M04-111B	12.03	11.40	0.95
ACENAPHTHYLENE	3/3	2.4	14	OU4-SD-M04-111B	8.80	5.89	0.67
ANTHRACENE	3/3	22	150	OU4-SD-M04-111B	65.33	73.33	1.12
BENZO(A)ANTHRACENE	3/3	110	340	OU4-SD-M04-111B	196.67	125.03	0.64
BENZO(A)PYRENE	3/3	120	370	OU4-SD-M04-111B	216.67	134.29	0.62
BENZO(B)FLUORANTHENE	3/3	170	520	OU4-SD-M04-111B	296.67	193.99	0.65
BENZO(G,H,I)PERYLENE	3/3	50	170	OU4-SD-M04-111B	98.33	63.31	0.64
BENZO(K)FLUORANTHENE	3/3	62	180	OU4-SD-M04-111B	107.33	63.57	0.59
CHRYSENE	3/3	120	360	OU4-SD-M04-111B	216.67	126.62	0.58
DIBENZO(A,H)ANTHRACENE	3/3	19	61	OU4-SD-M04-111B	35.67	22.30	0.63
DIBENZOTHIOPHENE	0/3				9.00	2.65	0.29
FLUORANTHENE	3/3	240	620	OU4-SD-M04-111B	366.67	219.39	0.60
FLUORENE	3/3	5.2	56	OU4-SD-M04-111B	25.07	27.15	1.08
INDENO(1,2,3-CD)PYRENE	3/3	71	230	OU4-SD-M04-111B	133.33	84.88	0.64
NAPHTHALENE	2/3	17	34	OU4-SD-M04-111B	19.00	14.11	0.74
PERYLENE	2/3	27	83	OU4-SD-M04-111B	40.33	37.81	0.94
PHENANTHRENE	3/3	78	380	OU4-SD-M04-111B	192.67	163.59	0.85
PYRENE	3/3	240	750	OU4-SD-M04-111B	430.00	278.75	0.65

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
ug/kg- microgram per kilogram
mg/kg-milligram per kilogram

TABLE 3-13

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 05
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
METALS (mg/kg)							
ALUMINUM	5/5	10200	14500	OU4-SD-M05-111B	13240.00	1731.47	0.13
ARSENIC	5/5	8.2	28.4	OU4-SD-M05-111B	18.60	8.57	0.46
CADMIUM	5/5	0.32	0.79	OU4-SD-M05-111B	0.54	0.23	0.43
CHROMIUM	5/5	40.6	58.2	OU4-SD-M05-211B	51.64	6.74	0.13
COPPER	5/5	13.1	296	OU4-SD-M05-111B	142.04	131.66	0.93
IRON	5/5	15000	27000	OU4-SD-M05-111B	22000.00	4561.25	0.21
LEAD	5/5	21.6	270	OU4-SD-M05-111B	135.44	115.71	0.85
MANGANESE	5/5	153	267	OU4-SD-M05-111B	227.20	44.90	0.20
MERCURY	5/5	0.1	0.74	OU4-SD-M05-111B	0.43	0.27	0.62
NICKEL	5/5	20.9	40.1	OU4-SD-M05-111B	28.32	9.47	0.33
SILVER	5/5	0.26	0.94	OU4-SD-M05-111B	0.55	0.34	0.62
ZINC	5/5	64.4	304	OU4-SD-M05-111B	176.88	108.52	0.61
MISCELLANEOUS							
TOTAL SOLIDS	5/5	40	54	OU4-SD-M05-111B-D	46.60	6.39	0.14
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)							
1,1-BIPHENYL	3/5	2.5	3.4	OU4-SD-M05-411B	5.62	3.89	0.69
ACENAPHTHENE	5/5	6.4	62	OU4-SD-M05-111B	28.88	25.64	0.89
ACENAPHTHYLENE	5/5	6.2	9.7	OU4-SD-M05-411B	7.82	1.49	0.19
ANTHRACENE	5/5	17	140	OU4-SD-M05-411B	73.80	56.83	0.77
BENZO(A)ANTHRACENE	5/5	100	410	OU4-SD-M05-111B	254.00	138.31	0.54
BENZO(A)PYRENE	5/5	110	390	OU4-SD-M05-111B	260.00	122.07	0.47
BENZO(B)FLUORANTHENE	5/5	150	500	OU4-SD-M05-411B	344.00	149.43	0.43
BENZO(G,H,I)PERYLENE	5/5	47	190	OU4-SD-M05-411B	129.00	59.18	0.46
BENZO(K)FLUORANTHENE	5/5	51	190	OU4-SD-M05-111B	127.60	58.10	0.46
CHRYSENE	5/5	120	420	OU4-SD-M05-111B	276.00	129.92	0.47
DIBENZO(A,H)ANTHRACENE	5/5	16	65	OU4-SD-M05-411B	43.40	19.89	0.46
DIBENZOTHIOPHENE	1/5	42	42	OU4-SD-M05-111B	16.50	14.33	0.87
FLUORANTHENE	5/5	170	960	OU4-SD-M05-111B	566.00	341.51	0.60
FLUORENE	5/5	9	71	OU4-SD-M05-111B	35.60	28.25	0.79
INDENO(1,2,3-CD)PYRENE	5/5	60	240	OU4-SD-M05-111B	168.00	76.62	0.46
INDENO(1,2,3-CD)PYRENE	5/5	60	240	OU4-SD-M05-411B	168.00	76.62	0.46
NAPHTHALENE	4/5	6.8	13	OU4-SD-M05-411B	9.22	2.29	0.25
PERYLENE	4/5	44	87	OU4-SD-M05-111B	54.30	31.85	0.59
PHENANTHRENE	5/5	90	700	OU4-SD-M05-111B	350.00	271.57	0.78
PYRENE	5/5	270	1100	OU4-SD-M05-411B	668.00	361.76	0.54

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
ug/kg- microgram per kilogram
mg/kg-milligram per kilogram

TABLE 3-14

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 07
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
DIOXINS/FURANS (NG/KG)							
1,2,3,4,6,7,8,9-OCDD	4/4	239	675	OU4-SD-M07-311B	376.25	202.38	0.54
1,2,3,4,6,7,8,9-OCDF	4/4	13.2	91.8	OU4-SD-M07-311B	36.68	37.27	1.02
1,2,3,4,6,7,8-HPCDD	4/4	23.8	68.2	OU4-SD-M07-311B	41.33	20.00	0.48
1,2,3,4,6,7,8-HPCDF	4/4	6.79	15.6	OU4-SD-M07-311B	10.72	4.15	0.39
1,2,3,4,7,8,9-HPCDF	3/4	0.245	0.79	OU4-SD-M07-311B	0.46	0.26	0.57
1,2,3,4,7,8-HXCDD	4/4	0.315	0.586	OU4-SD-M07-311B	0.46	0.14	0.30
1,2,3,4,7,8-HXCDF	2/4	0.821	0.88	OU4-SD-M07-211B	0.57	0.33	0.58
1,2,3,6,7,8-HXCDD	4/4	1.14	2.17	OU4-SD-M07-311B	1.71	0.52	0.30
1,2,3,6,7,8-HXCDF	2/4	0.42	0.57	OU4-SD-M07-111B-D	0.39	0.14	0.35
1,2,3,7,8,9-HXCDD	1/4	1.48	1.48	OU4-SD-M07-211B	0.72	0.52	0.72
1,2,3,7,8,9-HXCDF	0/4				0.26	0.10	0.41
1,2,3,7,8-PECDD	2/4	0.425	0.477	OU4-SD-M07-311B	0.34	0.16	0.46
1,2,3,7,8-PECDF	2/4	0.268	0.473	OU4-SD-M07-211B	0.27	0.14	0.53
2,3,4,6,7,8-HXCDF	1/4	0.651	0.651	OU4-SD-M07-111B	0.49	0.12	0.25
2,3,4,7,8-PECDF	2/4	0.5	0.679	OU4-SD-M07-111B-D	0.53	0.10	0.20
2,3,7,8-TCDD	0/4				0.15	0.05	0.35
2,3,7,8-TCDF	0/4				0.55	0.15	0.28
TOTAL HPCDD	4/4	69.5	169	OU4-SD-M07-311B	110.48	44.45	0.40
TOTAL HPCDF	4/4	20.5	67.5	OU4-SD-M07-311B	38.43	22.29	0.58
TOTAL HXCDD	4/4	12.9	22.2	OU4-SD-M07-311B	17.30	5.04	0.29
TOTAL HXCDF	0/4				5.44	1.66	0.31
TOTAL PECDD	4/4	2.75	4.76	OU4-SD-M07-311B	3.77	0.97	0.26
TOTAL PECDF	4/4	4.09	6.84	OU4-SD-M07-211B	5.63	1.27	0.23
TOTAL TCDD	4/4	1.52	3.08	OU4-SD-M07-311B	1.95	0.75	0.39
TOTAL TCDF	0/4				1.82	0.68	0.37
METALS (MG/KG)							
ALUMINUM	4/4	8800	14900	OU4-SD-M07-211B	11982.50	3268.01	0.27
ARSENIC	4/4	8.1	13.5	OU4-SD-M07-211B	10.75	2.70	0.25
CADMIUM	4/4	0.18	0.79	OU4-SD-M07-211B	0.46	0.30	0.65
CHROMIUM	4/4	31.9	72.6	OU4-SD-M07-211B	48.70	19.86	0.41
COPPER	4/4	15.7	27.7	OU4-SD-M07-211B	20.83	5.00	0.24
IRON	4/4	13900	23400	OU4-SD-M07-211B	18325.00	4517.65	0.25
LEAD	4/4	17.3	41.7	OU4-SD-M07-211B	27.18	11.66	0.43
MANGANESE	4/4	127	235	OU4-SD-M07-211B	181.75	60.93	0.34
MERCURY	4/4	0.05	0.28	OU4-SD-M07-211B	0.14	0.11	0.81
NICKEL	4/4	17.9	21	OU4-SD-M07-211B	19.25	1.30	0.07
SILVER	4/4	0.16	0.64	OU4-SD-M07-211B	0.38	0.26	0.68
ZINC	4/4	54.9	101	OU4-SD-M07-211B	74.33	22.29	0.30
MISCELLANEOUS							
TOTAL SOLIDS	4/4	34	65	OU4-SD-M07-111B-D	49.75	17.61	0.35
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)							
1,1-BIPHENYL	0/4				10.13	3.66	0.36
ACENAPHTHENE	3/4	3	9.3	OU4-SD-M07-211B	6.33	2.61	0.41
ACENAPHTHYLENE	4/4	1.9	17	OU4-SD-M07-211B	8.33	7.42	0.89

TABLE 3-14

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 07
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
ANTHRACENE	4/4	9.6	48	OU4-SD-M07-211B	24.40	18.04	0.74
BENZO(A)ANTHRACENE	4/4	61	230	OU4-SD-M07-211B	127.75	79.04	0.62
BENZO(A)PYRENE	4/4	74	250	OU4-SD-M07-211B	144.25	82.73	0.57
BENZO(B)FLUORANTHENE	4/4	100	300	OU4-SD-M07-211B	182.50	91.79	0.50
BENZO(G,H,I)PERYLENE	4/4	48	110	OU4-SD-M07-211B	74.00	27.75	0.37
BENZO(K)FLUORANTHENE	4/4	35	100	OU4-SD-M07-211B	62.75	30.83	0.49
CHRYSENE	4/4	80	240	OU4-SD-M07-211B	142.50	74.11	0.52
DIBENZO(A,H)ANTHRACENE	4/4	15	42	OU4-SD-M07-211B	25.75	12.18	0.47
DIBENZOTHIOPHENE	0/4				10.13	3.66	0.36
FLUORANTHENE	4/4	140	340	OU4-SD-M07-211B	220.00	90.92	0.41
FLUORENE	3/4	5.8	17	OU4-SD-M07-211B	10.70	5.25	0.49
INDENO(1,2,3-CD)PYRENE	4/4	60	140	OU4-SD-M07-211B	92.50	35.94	0.39
NAPHTHALENE	2/4	16	20	OU4-SD-M07-211B	12.50	6.56	0.52
PERYLENE	0/4				10.13	3.66	0.36
PHENANTHRENE	4/4	59	140	OU4-SD-M07-211B	95.50	36.65	0.38
PYRENE	4/4	210	450	OU4-SD-M07-211B	320.00	118.32	0.37
PCBS (UG/KG)							
PCB-101	0/4				0.63	0.17	0.27
PCB-105	0/4				1.25	0.34	0.27
PCB-114	1/4	1.2	1.2	OU4-SD-M07-311B	0.76	0.34	0.45
PCB-118	2/4	0.71	1.4	OU4-SD-M07-211B	0.81	0.43	0.53
PCB-123	0/4				0.63	0.17	0.27
PCB-126	0/4				0.63	0.17	0.27
PCB-128	0/4				0.63	0.17	0.27
PCB-138	0/4				0.63	0.17	0.27
PCB-153	0/4				0.71	0.24	0.34
PCB-156	0/4				0.63	0.17	0.27
PCB-157	0/4				0.63	0.17	0.27
PCB-167	0/4				0.63	0.17	0.27
PCB-169	0/4				0.63	0.17	0.27
PCB-170	0/4				0.47	0.19	0.40
PCB-18	0/4				2.50	0.68	0.27
PCB-180	2/4	1.8	1.9	OU4-SD-M07-211B	1.21	0.76	0.63
PCB-187	0/4				0.63	0.17	0.27
PCB-189	0/4				0.63	0.17	0.27
PCB-195	0/4				0.63	0.17	0.27
PCB-206	2/4	0.34	0.83	OU4-SD-M07-211B	0.58	0.25	0.44
PCB-209	0/4				0.63	0.17	0.27
PCB-28	0/4				0.63	0.17	0.27
PCB-44	0/4				0.63	0.17	0.27
PCB-52	0/4				0.63	0.17	0.27
PCB-66	1/4	3	3	OU4-SD-M07-211B	1.21	1.21	1.00
PCB-77	1/4	3.1	3.1	OU4-SD-M07-211B	1.23	1.26	1.02
PCB-8	0/4				0.63	0.17	0.27
PCB-81	0/4				0.63	0.17	0.27

TABLE 3-14

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 07
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
PESTICIDES (UG/KG)							
2,4'-DDD	0/4				1.74	0.71	0.41
2,4'-DDE	0/4				1.74	0.71	0.41
2,4'-DDT	1/4	0.61	0.61	OU4-SD-M07-111B-D	1.60	0.89	0.55
4,4'-DDD	3/4	1.5	2.6	OU4-SD-M07-211B	2.15	0.47	0.22
4,4'-DDE	2/4	1.6	1.9	OU4-SD-M07-111B	2.05	0.37	0.18
4,4'-DDT	2/4	1.6	3.2	OU4-SD-M07-111B	2.38	0.66	0.28
ALDRIN	0/4				0.90	0.38	0.42
ALPHA-BHC	0/4				0.90	0.38	0.42
ALPHA-CHLORDANE	0/4				0.90	0.38	0.42
BETA-BHC	0/4				0.90	0.38	0.42
CIS-NONACHLOR	0/4				1.74	0.71	0.41
DELTA-BHC	0/4				0.90	0.38	0.42
DIELDRIN	0/4				1.74	0.71	0.41
ENDOSULFAN II	0/4				1.74	0.71	0.41
ENDRIN	0/4				1.74	0.71	0.41
GAMMA-BHC (LINDANE)	0/4				0.90	0.38	0.42
GAMMA-CHLORDANE	0/4				0.90	0.38	0.42
HEPTACHLOR	0/4				0.90	0.38	0.42
HEPTACHLOR EPOXIDE	2/4	0.64	0.7	OU4-SD-M07-111B-D	0.95	0.32	0.34
HEXACHLOROBENZENE	0/4				1.74	0.71	0.41
MIREX	0/4				1.74	0.71	0.41
OXYCHLORDANE	0/4				1.74	0.71	0.41
TRANS-NONACHLOR	0/4				1.74	0.71	0.41

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
PCB-polychlorinated biphenyl
ng/kg-nanogram per kilogram
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-15

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 08
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
DIOXINS/FURANS (NG/KG)							
1,2,3,4,6,7,8,9-OCDD	3/3	109	378	OU4-SD-M08-211B	201.333	153.050	0.760
1,2,3,4,6,7,8,9-OCDF	3/3	7.22	30	OU4-SD-M08-211B	15.070	12.935	0.858
1,2,3,4,6,7,8-HPCDD	3/3	13.6	56.9	OU4-SD-M08-211B	28.733	24.416	0.850
1,2,3,4,6,7,8-HPCDF	3/3	4.45	22.3	OU4-SD-M08-211B	10.677	10.075	0.944
1,2,3,4,7,8,9-HPCDF	2/3	0.256	1.52	OU4-SD-M08-211B	0.679	0.729	1.074
1,2,3,4,7,8-HXCDD	2/3	0.21	1.04	OU4-SD-M08-211B	0.520	0.453	0.870
1,2,3,4,7,8-HXCDF	1/3	0.408	0.408	OU4-SD-M08-311B	0.771	0.774	1.004
1,2,3,6,7,8-HXCDD	2/3	0.777	3.11	OU4-SD-M08-211B	1.406	1.493	1.062
1,2,3,6,7,8-HXCDF	2/3	0.503	2.76	OU4-SD-M08-211B	1.146	1.407	1.227
1,2,3,7,8,9-HXCDD	2/3	0.527	1.68	OU4-SD-M08-211B	0.847	0.728	0.859
1,2,3,7,8,9-HXCDF	1/3	0.926	0.926	OU4-SD-M08-211B	0.441	0.431	0.977
1,2,3,7,8-PECDD	2/3	0.238	0.975	OU4-SD-M08-211B	0.464	0.444	0.957
1,2,3,7,8-PECDF	2/3	0.222	1.47	OU4-SD-M08-211B	0.650	0.710	1.092
2,3,4,6,7,8-HXCDF	3/3	0.63	3.53	OU4-SD-M08-211B	1.611	1.662	1.031
2,3,4,7,8-PECDF	1/3	3.92	3.92	OU4-SD-M08-211B	1.545	2.057	1.332
2,3,7,8-TCDD	0/0				0.135	0.065	0.477
2,3,7,8-TCDF	0/0				0.660	0.474	0.718
TOTAL HPCDD	3/3	37.5	157	OU4-SD-M08-211B	80.700	66.270	0.821
TOTAL HPCDF	3/3	10.8	58.9	OU4-SD-M08-211B	27.500	27.212	0.990
TOTAL HXCDD	3/3	6.39	34.4	OU4-SD-M08-211B	16.283	15.712	0.965
TOTAL HXCDF	1/3	37.6	37.6	OU4-SD-M08-211B	14.870	19.686	1.324
TOTAL PECDD	3/3	1.25	16.1	OU4-SD-M08-211B	6.477	8.344	1.288
TOTAL PECDF	3/3	4.45	29.8	OU4-SD-M08-211B	13.010	14.542	1.118
TOTAL TCDD	3/3	0.881	7.59	OU4-SD-M08-211B	3.130	3.863	1.234
TOTAL TCDF	1/3	27.6	27.6	OU4-SD-M08-211B	10.218	15.053	1.473
METALS (MG/KG)							
ALUMINUM	3/3	7250	12700	OU4-SD-M08-211B	9426.667	2885.764	0.306
ARSENIC	3/3	13.2	16.2	OU4-SD-M08-211B	14.600	1.510	0.103
CADMIUM	3/3	0.1	0.35	OU4-SD-M08-211B	0.213	0.127	0.594
CHROMIUM	3/3	22.2	52.3	OU4-SD-M08-211B	34.467	15.803	0.459
COPPER	3/3	26.4	113	OU4-SD-M08-211B	60.933	45.885	0.753
IRON	3/3	13800	21300	OU4-SD-M08-211B	16766.667	3987.898	0.238
LEAD	3/3	25.4	102	OU4-SD-M08-211B	55.700	40.729	0.731
MANGANESE	3/3	123	197	OU4-SD-M08-211B	149.667	41.102	0.275
MERCURY	3/3	0.06	0.33	OU4-SD-M08-211B	0.160	0.148	0.925
NICKEL	3/3	10.1	26.9	OU4-SD-M08-211B	17.400	8.613	0.495
SILVER	3/3	0.16	0.43	OU4-SD-M08-211B	0.257	0.150	0.586
ZINC	3/3	47.7	139	OU4-SD-M08-211B	91.000	45.831	0.504
MISCELLANEOUS							
TOTAL SOLIDS	3/3	53	69	OU4-SD-M08-311B	63.333	8.963	0.142
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)							
1,1-BIPHENYL	1/3	3.4	3.4	OU4-SD-M08-211B	5.633	1.950	0.346
ACENAPHTHENE	2/3	2.9	26	OU4-SD-M08-211B	11.800	12.429	1.053
ACENAPHTHYLENE	2/3	2.8	7.1	OU4-SD-M08-211B	5.467	2.329	0.426

TABLE 3-15

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 08
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
ANTHRACENE	3/3	5	60	OU4-SD-M08-211B	26.000	29.715	1.143
BENZO(A)ANTHRACENE	3/3	26	200	OU4-SD-M08-211B	96.333	91.664	0.952
BENZO(A)PYRENE	3/3	30	210	OU4-SD-M08-211B	104.333	94.002	0.901
BENZO(B)FLUORANTHENE	3/3	44	280	OU4-SD-M08-211B	140.667	123.650	0.879
BENZO(G,H,I)PERYLENE	3/3	17	99	OU4-SD-M08-211B	52.667	42.028	0.798
BENZO(K)FLUORANTHENE	3/3	17	94	OU4-SD-M08-211B	47.667	40.821	0.856
CHRYSENE	3/3	34	220	OU4-SD-M08-211B	111.667	96.718	0.866
DIBENZO(A,H)ANTHRACENE	3/3	5.5	38	OU4-SD-M08-211B	18.833	17.017	0.904
DIBENZOTHIOPHENE	0/0				7.500	1.323	0.176
FLUORANTHENE	3/3	62	380	OU4-SD-M08-211B	197.333	164.199	0.832
FLUORENE	2/3	4.7	35	OU4-SD-M08-211B	15.400	16.998	1.104
INDENO(1,2,3-CD)PYRENE	3/3	23	120	OU4-SD-M08-211B	64.333	50.063	0.778
NAPHTHALENE	1/3	16	16	OU4-SD-M08-211B	9.833	5.346	0.544
PERYLENE	1/3	42	42	OU4-SD-M08-211B	18.500	20.353	1.100
PHENANTHRENE	3/3	22	240	OU4-SD-M08-211B	106.667	116.865	1.096
PYRENE	3/3	68	460	OU4-SD-M08-211B	226.000	206.756	0.915
PCBS (UG/KG)							
PCB-101	1/3	1.6	1.6	OU4-SD-M08-211B	0.773	0.716	0.926
PCB-105	0/0				0.767	0.115	0.151
PCB-114	0/0				0.390	0.052	0.133
PCB-118	2/3	0.44	1.8	OU4-SD-M08-211B	0.867	0.809	0.934
PCB-123	0/0				0.390	0.052	0.133
PCB-126	0/0				0.390	0.052	0.133
PCB-128	0/0				0.390	0.052	0.133
PCB-138	0/0				0.390	0.052	0.133
PCB-153	0/0				0.390	0.052	0.133
PCB-156	0/0				0.390	0.052	0.133
PCB-157	0/0				0.390	0.052	0.133
PCB-167	0/0				0.390	0.052	0.133
PCB-169	1/3	3.2	3.2	OU4-SD-M08-211B	1.307	1.640	1.255
PCB-170	0/0				0.467	0.126	0.270
PCB-18	0/0				1.567	0.202	0.129
PCB-180	3/3	1.2	4.3	OU4-SD-M08-211B	2.600	1.572	0.604
PCB-187	2/3	1.2	1.7	OU4-SD-M08-211B	1.087	0.677	0.623
PCB-189	0/0				0.390	0.052	0.133
PCB-195	0/0				0.390	0.052	0.133
PCB-206	3/3	0.21	2.4	OU4-SD-M08-211B	0.990	1.223	1.236
PCB-209	1/3	0.72	0.72	OU4-SD-M08-211B	0.480	0.208	0.433
PCB-28	0/0				0.390	0.052	0.133
PCB-44	1/3	0.46	0.46	OU4-SD-M08-211B	0.393	0.058	0.147
PCB-52	1/3	0.87	0.87	OU4-SD-M08-211B	0.530	0.294	0.556
PCB-66	3/3	0.45	2.4	OU4-SD-M08-211B	1.153	1.083	0.939
PCB-77	0/0				0.390	0.052	0.133
PCB-8	0/0				0.390	0.052	0.133
PCB-81	2/3	0.62	3.2	OU4-SD-M08-211B	1.393	1.570	1.127

TABLE 3-15

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 08
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
PESTICIDES (UG/KG)							
2,4'-DDD	1/3	6	6	OU4-SD-M08-111B	2.900	2.692	0.928
2,4'-DDE	0/0				1.300	0.218	0.168
2,4'-DDT	0/0				1.300	0.218	0.168
4,4'-DDD	3/3	4.2	44	OU4-SD-M08-211B	21.400	20.442	0.955
4,4'-DDE	3/3	0.92	7	OU4-SD-M08-211B	3.573	3.113	0.871
4,4'-DDT	2/3	2.7	16	OU4-SD-M08-211B	6.617	8.163	1.234
ALDRIN	0/0				0.667	0.115	0.173
ALPHA-BHC	0/0				0.667	0.115	0.173
ALPHA-CHLORDANE	0/0				0.667	0.115	0.173
BETA-BHC	0/0				0.667	0.115	0.173
CIS-NONACHLOR	0/0				1.300	0.218	0.168
DELTA-BHC	0/0				0.667	0.115	0.173
DIELDRIN	0/0				1.300	0.218	0.168
ENDOSULFAN II	0/0				1.300	0.218	0.168
ENDRIN	0/0				1.300	0.218	0.168
GAMMA-BHC (LINDANE)	0/0				0.667	0.115	0.173
GAMMA-CHLORDANE	0/0				0.667	0.115	0.173
HEPTACHLOR	0/0				0.667	0.115	0.173
HEPTACHLOR EPOXIDE	2/3	0.7	1.7	OU4-SD-M08-211B	1.000	0.608	0.608
HEXACHLOROBENZENE	1/3	0.6	0.6	OU4-SD-M08-111B	1.100	0.477	0.434
MIREX	0/0				1.300	0.218	0.168
OXYCHLORDANE	0/0				1.300	0.218	0.168
TRANS-NONACHLOR	0/0				1.300	0.218	0.168

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
PCB-polychlorinated biphenyl
ng/kg-nanogram per kilogram
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-16

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 09
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
DIOXINS/FURANS (NG/KG)							
1,2,3,4,6,7,8,9-OCDD	3/3	475	1720	OU4-SD-M09-211B	902.000	708.637	0.786
1,2,3,4,6,7,8,9-OCDF	3/3	32.4	106	OU4-SD-M09-211B	57.533	41.983	0.730
1,2,3,4,6,7,8-HPCDD	3/3	62.1	218	OU4-SD-M09-211B	115.833	88.519	0.764
1,2,3,4,6,7,8-HPCDF	3/3	20.2	72.9	OU4-SD-M09-211B	38.500	29.812	0.774
1,2,3,4,7,8,9-HPCDF	3/3	1.32	5.33	OU4-SD-M09-211B	2.737	2.249	0.822
1,2,3,4,7,8-HXCDD	2/3	1.22	4.76	OU4-SD-M09-211B	2.173	2.266	1.043
1,2,3,4,7,8-HXCDF	2/3	3.14	7.36	OU4-SD-M09-211B	3.990	3.036	0.761
1,2,3,6,7,8-HXCDD	3/3	3.43	9.31	OU4-SD-M09-211B	5.537	3.275	0.592
1,2,3,6,7,8-HXCDF	3/3	2.18	6.09	OU4-SD-M09-211B	3.550	2.202	0.620
1,2,3,7,8,9-HXCDD	2/3	1.81	5.86	OU4-SD-M09-211B	2.957	2.533	0.857
1,2,3,7,8,9-HXCDF	2/3	1.02	2.13	OU4-SD-M09-211B	1.202	0.851	0.708
1,2,3,7,8-PECDD	2/3	0.78	2.93	OU4-SD-M09-211B	1.393	1.341	0.963
1,2,3,7,8-PECDF	1/3	1.85	1.85	OU4-SD-M09-111B	1.617	0.349	0.216
2,3,4,6,7,8-HXCDF	3/3	3.16	8.61	OU4-SD-M09-211B	5.083	3.058	0.602
2,3,4,7,8-PECDF	0/3				2.362	1.154	0.489
2,3,7,8-TCDD	1/3	0.607	0.607	OU4-SD-M09-211B	0.447	0.141	0.315
2,3,7,8-TCDF	0/3				1.758	0.561	0.319
TOTAL HPCDD	3/3	197	611	OU4-SD-M09-211B	344.333	231.364	0.672
TOTAL HPCDF	3/3	59.1	204	OU4-SD-M09-211B	108.533	82.694	0.762
TOTAL HXCDD	3/3	33.6	119	OU4-SD-M09-211B	64.933	47.020	0.724
TOTAL HXCDF	3/3	28.9	93.8	OU4-SD-M09-211B	53.033	35.504	0.669
TOTAL PECDD	3/3	10.4	38.9	OU4-SD-M09-211B	21.200	15.452	0.729
TOTAL PECDF	3/3	26.6	65.7	OU4-SD-M09-211B	39.767	22.460	0.565
TOTAL TCDD	3/3	3.7	18.9	OU4-SD-M09-211B	9.477	8.230	0.868
TOTAL TCDF	3/3	26.3	57.4	OU4-SD-M09-211B	38.900	16.368	0.421
METALS (MG/KG)							
ALUMINUM	3/3	16800	18400	OU4-SD-M09-111B	17866.667	923.760	0.052
ALUMINUM	3/3	16800	18400	OU4-SD-M09-311B	17866.667	923.760	0.052
ARSENIC	3/3	16.9	18	OU4-SD-M09-111B	17.567	0.586	0.033
CADMIUM	3/3	0.53	0.85	OU4-SD-M09-211B	0.710	0.164	0.231
CHROMIUM	3/3	79.6	88.8	OU4-SD-M09-311B	84.800	4.716	0.056
COPPER	3/3	93.2	112	OU4-SD-M09-111B	101.400	9.627	0.095
IRON	3/3	27100	28500	OU4-SD-M09-311B	27866.667	709.460	0.025
LEAD	3/3	78.1	133	OU4-SD-M09-211B	101.500	28.332	0.279
MANGANESE	3/3	284	301	OU4-SD-M09-311B	289.667	9.815	0.034
MERCURY	3/3	0.28	0.46	OU4-SD-M09-311B	0.397	0.101	0.255
NICKEL	3/3	31.8	35.1	OU4-SD-M09-311B	33.633	1.680	0.050
SILVER	3/3	0.52	0.73	OU4-SD-M09-111B	0.603	0.112	0.185
ZINC	3/3	149	173	OU4-SD-M09-211B	161.333	12.014	0.074
MISCELLANEOUS							
TOTAL SOLIDS	3/3	26	28	OU4-SD-M09-211B	27.333	1.155	0.042

TABLE 3-16

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 09
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)							
1,1-BIPHENYL	2/3	5	5.8	OU4-SD-M09-211B	9.267	6.709	0.724
ACENAPHTHENE	3/3	10	41	OU4-SD-M09-211B	30.000	17.349	0.578
ACENAPHTHYLENE	3/3	5.8	21	OU4-SD-M09-311B	14.267	7.747	0.543
ANTHRACENE	3/3	57	120	OU4-SD-M09-211B	92.333	32.192	0.349
BENZO(A)ANTHRACENE	3/3	150	470	OU4-SD-M09-211B	356.667	179.258	0.503
BENZO(A)PYRENE	3/3	160	470	OU4-SD-M09-211B	360.000	173.494	0.482
BENZO(B)FLUORANTHENE	3/3	240	600	OU4-SD-M09-311B	480.000	207.846	0.433
BENZO(B)FLUORANTHENE	3/3	240	600	OU4-SD-M09-211B	480.000	207.846	0.433
BENZO(G,H,I)PERYLENE	3/3	77	230	OU4-SD-M09-311B	172.333	83.164	0.483
BENZO(K)FLUORANTHENE	3/3	88	240	OU4-SD-M09-211B	182.667	82.591	0.452
CHRYSENE	3/3	200	480	OU4-SD-M09-211B	370.000	149.332	0.404
DIBENZO(A,H)ANTHRACENE	3/3	26	76	OU4-SD-M09-311B	58.667	28.308	0.483
DIBENZOTHIOPHENE	0/3				16.333	2.082	0.127
FLUORANTHENE	3/3	350	880	OU4-SD-M09-311B	696.667	300.389	0.431
FLUORENE	3/3	17	53	OU4-SD-M09-211B	39.333	19.502	0.496
INDENO(1,2,3-CD)PYRENE	3/3	110	300	OU4-SD-M09-311B	233.333	106.927	0.458
NAPHTHALENE	2/3	34	35	OU4-SD-M09-311B	28.667	10.116	0.353
PERYLENE	2/3	100	110	OU4-SD-M09-211B	75.667	51.052	0.675
PHENANTHRENE	3/3	140	460	OU4-SD-M09-211B	343.333	176.730	0.515
PYRENE	3/3	440	980	OU4-SD-M09-211B	790.000	303.480	0.384
PCBS (UG/KG)							
PCB-101	2/3	3.2	5	OU4-SD-M09-311B	3.033	2.055	0.677
PCB-105	1/3	2.6	2.6	OU4-SD-M09-111B	2.033	0.491	0.241
PCB-114	0/3				0.883	0.029	0.033
PCB-118	3/3	1.6	4.7	OU4-SD-M09-111B	2.667	1.762	0.661
PCB-123	0/3				0.883	0.029	0.033
PCB-126	0/3				0.883	0.029	0.033
PCB-128	0/3				0.883	0.029	0.033
PCB-138	1/3	3.3	3.3	OU4-SD-M09-111B	1.700	1.386	0.815
PCB-153	0/3				1.733	0.404	0.233
PCB-156	0/3				0.883	0.029	0.033
PCB-157	0/3				0.883	0.029	0.033
PCB-167	0/3				0.883	0.029	0.033
PCB-169	2/3	2.1	3.3	OU4-SD-M09-311B	2.083	1.225	0.588
PCB-170	0/3				0.883	0.029	0.033
PCB-18	0/3				3.483	0.076	0.022
PCB-180	2/3	3.4	3.8	OU4-SD-M09-311B	2.700	1.572	0.582
PCB-187	1/3	2.9	2.9	OU4-SD-M09-111B	1.567	1.155	0.737
PCB-189	0/3				0.883	0.029	0.033
PCB-195	0/3				0.883	0.029	0.033
PCB-206	2/3	7.2	29	OU4-SD-M09-111B	12.367	14.745	1.192
PCB-209	2/3	1.6	6.7	OU4-SD-M09-111B	3.067	3.166	1.032
PCB-28	0/3				0.883	0.029	0.033

TABLE 3-16

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 09
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Deviation	Coefficient
PCB-44	1/3	0.7	0.7	OU4-SD-M09-311B	0.817	0.104	0.127
PCB-52	1/3	0.93	0.93	OU4-SD-M09-311B	0.893	0.040	0.045
PCB-66	2/3	2.8	3	OU4-SD-M09-311B	2.233	1.159	0.519
PCB-77	2/3	4.2	8.9	OU4-SD-M09-311B	4.650	4.044	0.870
PCB-8	0/3				0.883	0.029	0.033
PCB-81	0/3				0.883	0.029	0.033
PESTICIDES (UG/KG)							
2,4'-DDD	0/3				2.917	0.104	0.036
2,4'-DDE	0/3				2.917	0.104	0.036
2,4'-DDT	0/3				2.917	0.104	0.036
4,4'-DDD	2/3	5	7	OU4-SD-M09-111B	4.983	2.025	0.406
4,4'-DDE	2/3	3	3.9	OU4-SD-M09-111B	3.283	0.535	0.163
4,4'-DDT	1/3	4.1	4.1	OU4-SD-M09-111B	3.350	0.650	0.194
ALDRIN	0/3				1.500	0.050	0.033
ALPHA-BHC	0/3				1.500	0.050	0.033
ALPHA-CHLORDANE	0/3				1.500	0.050	0.033
BETA-BHC	0/3				1.500	0.050	0.033
CIS-NONACHLOR	0/3				2.917	0.104	0.036
DELTA-BHC	0/3				1.500	0.050	0.033
DIELDRIN	0/3				2.917	0.104	0.036
ENDOSULFAN II	0/3				2.917	0.104	0.036
ENDRIN	0/3				2.917	0.104	0.036
GAMMA-BHC (LINDANE)	0/3				1.500	0.050	0.033
GAMMA-CHLORDANE	0/3				1.500	0.050	0.033
HEPTACHLOR	0/3				1.500	0.050	0.033
HEPTACHLOR EPOXIDE	0/3				1.500	0.050	0.033
HEXACHLOROBENZENE	1/3	2.1	2.1	OU4-SD-M09-211B	2.633	0.473	0.179
MIREX	0/3				2.917	0.104	0.036
OXYCHLORDANE	0/3				2.917	0.104	0.036
TRANS-NONACHLOR	0/3				2.917	0.104	0.036

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
PCB-polychlorinated biphenyl
ng/kg-nanogram per kilogram
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

TABLE 3-17

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 11
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Devation	Coefficient
METALS (MG/KG)							
COPPER	1/1	88.4	88.4	OU4-SD-M11-311B	88.4	NA	NA
LEAD	1/1	56.5	56.5	OU4-SD-M11-311B	56.5	NA	NA
NICKEL	1/1	34.9	34.9	OU4-SD-M11-311B	34.9	NA	NA
MISCELLANEOUS							
TOTAL SOLIDS	1/1	69	69	OU4-SD-M11-311B	69	NA	NA

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
mg/kg- milligram per kilogram

TABLE 3-18

DESCRIPTIVE STATISTICS FOR THE SEDIMENT DATA FOR MONITORING STATION 12
ROUND 11-INTERIM OFFSHORE MONITORING PROGRAM
PORTSMOUTH NAVAL SHIPYARD
KITTERY, MAINE

Parameter	Frequency of Detection	Min result	Max results	Sample of Max results	Mean	Standard Devation	Coefficient
METALS (MG/KG)							
LEAD	6/6	97	8730	OU4-SD-M12-511B	1642.50	3473.69	2.11
MISCELLANEOUS							
TOTAL SOLIDS	6/6	32	56	OU4-SD-M12-111B	47.50	10.77	0.23
POLYCYCLIC AROMATIC HYDROCARBONS (UG/KG)							
1,1-BIPHENYL	3/6	9	27	OU4-SD-M12-111B	20.67	10.12	0.49
ACENAPHTHENE	3/6	220	660	OU4-SD-M12-111B	480.00	230.65	0.48
ACENAPHTHYLENE	1/6	20	20	OU4-SD-M12-211B	13.33	5.97	0.45
ANTHRACENE	3/6	250	860	OU4-SD-M12-111B	636.67	336.20	0.53
BENZO(A)ANTHRACENE	3/6	900	2400	OU4-SD-M12-111B	1800.00	793.73	0.44
BENZO(A)PYRENE	3/6	920	2300	OU4-SD-M12-111B	1740.00	725.81	0.42
BENZO(B)FLUORANTHENE	3/6	1200	3000	OU4-SD-M12-111B	2200.00	916.52	0.42
BENZO(G,H,I)PERYLENE	3/6	350	860	OU4-SD-M12-111B	683.33	288.85	0.42
BENZO(K)FLUORANTHENE	3/6	330	1600	OU4-SD-M12-111B	806.67	691.69	0.86
CHRYSENE	3/6	1200	3000	OU4-SD-M12-111B	2300.00	964.37	0.42
DIBENZO(A,H)ANTHRACENE	3/6	130	410	OU4-SD-M12-111B	286.67	142.95	0.50
DIBENZOTHIOPHENE	2/6	100	280	OU4-SD-M12-111B	130.50	136.82	1.05
FLUORANTHENE	3/6	2500	6800	OU4-SD-M12-111B	4966.67	2218.86	0.45
FLUORENE	3/6	190	600	OU4-SD-M12-311B	463.33	236.71	0.51
FLUORENE	3/6	190	600	OU4-SD-M12-111B	463.33	236.71	0.51
INDENO(1,2,3-CD)PYRENE	3/6	510	1400	OU4-SD-M12-111B	1070.00	487.54	0.46
NAPHTHALENE	3/6	71	220	OU4-SD-M12-111B	170.33	86.03	0.51
NAPHTHALENE	3/6	71	220	OU4-SD-M12-311B	170.33	86.03	0.51
PERYLENE	3/6	190	470	OU4-SD-M12-111B	266.67	115.90	0.43
PHENANTHRENE	3/6	1600	4900	OU4-SD-M12-111B	3666.67	1800.93	0.49
PYRENE	3/6	2300	6400	OU4-SD-M12-111B	4766.67	2173.32	0.46

Note:
The mean and standard deviation were calculated using 1/2 the detection limit for non-detects and the average of the duplicate samples.
The sample and duplicate were counted as two separate samples when determining he minimum and maximum.
mg/kg- milligram per kilogram
ug/kg- microgram per kilogram

4.0 DATA QUALITY SUMMARY

A DQR was conducted for the analytical laboratory data collected during the OU4 Round 11 Interim Offshore Monitoring Program. The DQR reviewed the processes used to determine whether analytical laboratory data were of acceptable technical quality for use in decision making. The DQR (Appendix D) also evaluated the measures of data completeness, sensitivity, comparability, and representativeness. The following provides a summary of the data quality issues to be considered prior to data use.

No data were rejected during evaluation of sample results for Round 11 of the Interim Offshore Monitoring Plan and there were no non-detect values greater than Project Screening Levels (PSLs) and Project Remediation Goals (PRGs). The Round 11 data set is complete and comparable to previous rounds. The samples represent that the intended populations, and accuracy and precision of the data are consistent with data of past OU4 investigations and typical environmental investigations in general; therefore, the data set for Round 11 is considered to be acceptable for project use.

REFERENCES

Navy (Department of Navy), May 1999. Interim Record of Decision for Operable Unit 4, Portsmouth Naval Shipyard, Kittery, Maine.

Tetra Tech (Tetra Tech NUS, Inc.), June 2009. Interim Offshore Monitoring Program Round 10 Data Package for Operable Unit 4 for Portsmouth Naval Shipyard, Kittery, Maine. King of Prussia, PA.

Tetra Tech, November 2010. Interim Offshore Monitoring Plan for Operable Unit 4 Revision 1 for Portsmouth Naval Shipyard, Kittery, Maine. King of Prussia, PA.

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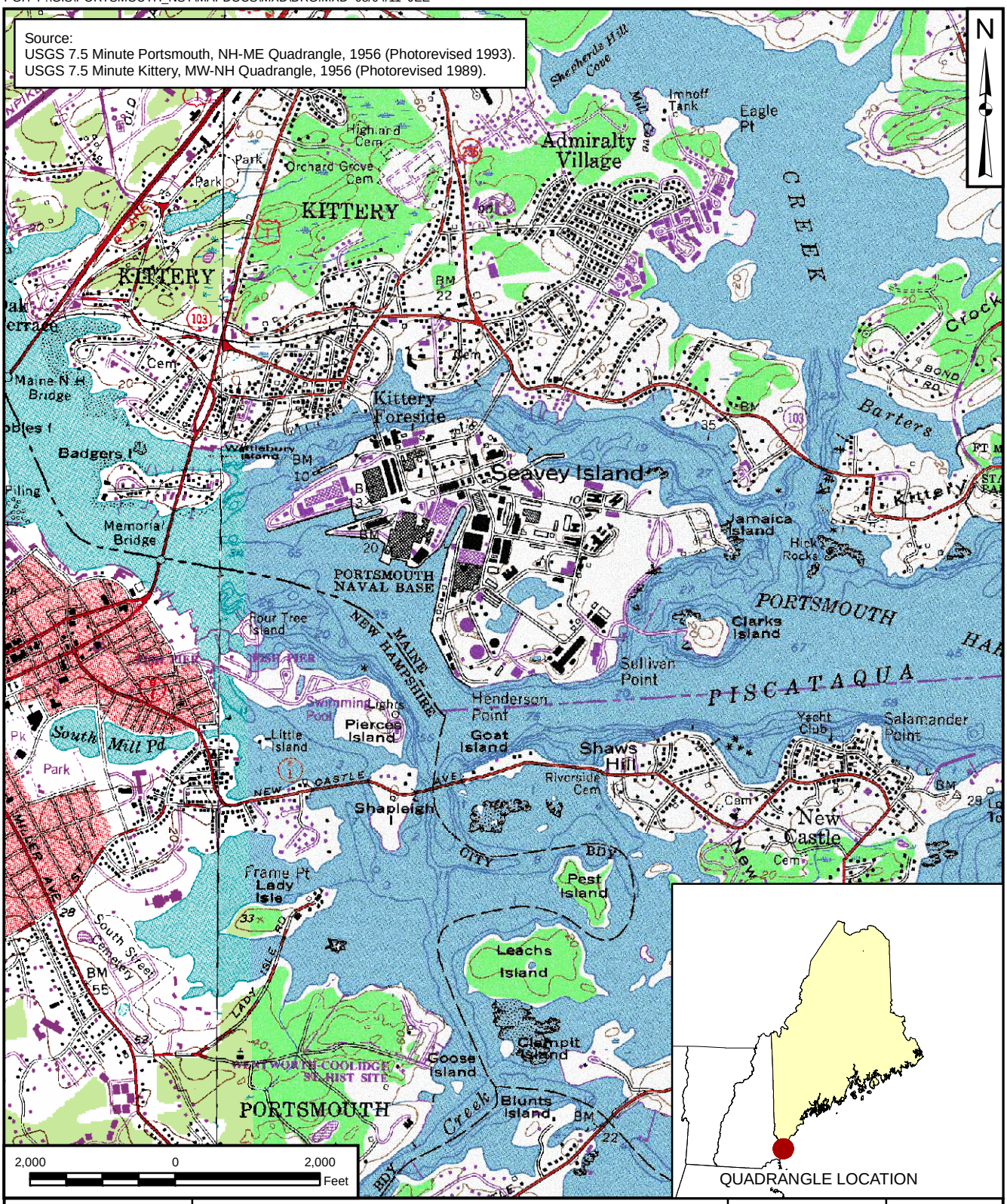

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J. ENGLISH	06/17/11		2225	WE29
CHECKED BY	DATE	PORTSMOUTH NAVAL SHIPYARD VICINITY MAP PORTSMOUTH NAVAL SHIPYARD KITTERY, MAINE	APPROVED BY	DATE
M. CARSON	08/04/11		___	___
REVISED BY	DATE		APPROVED BY	DATE
___	___		___	___
SCALE			FIGURE NO.	REV
AS NOTED			FIGURE 1	0

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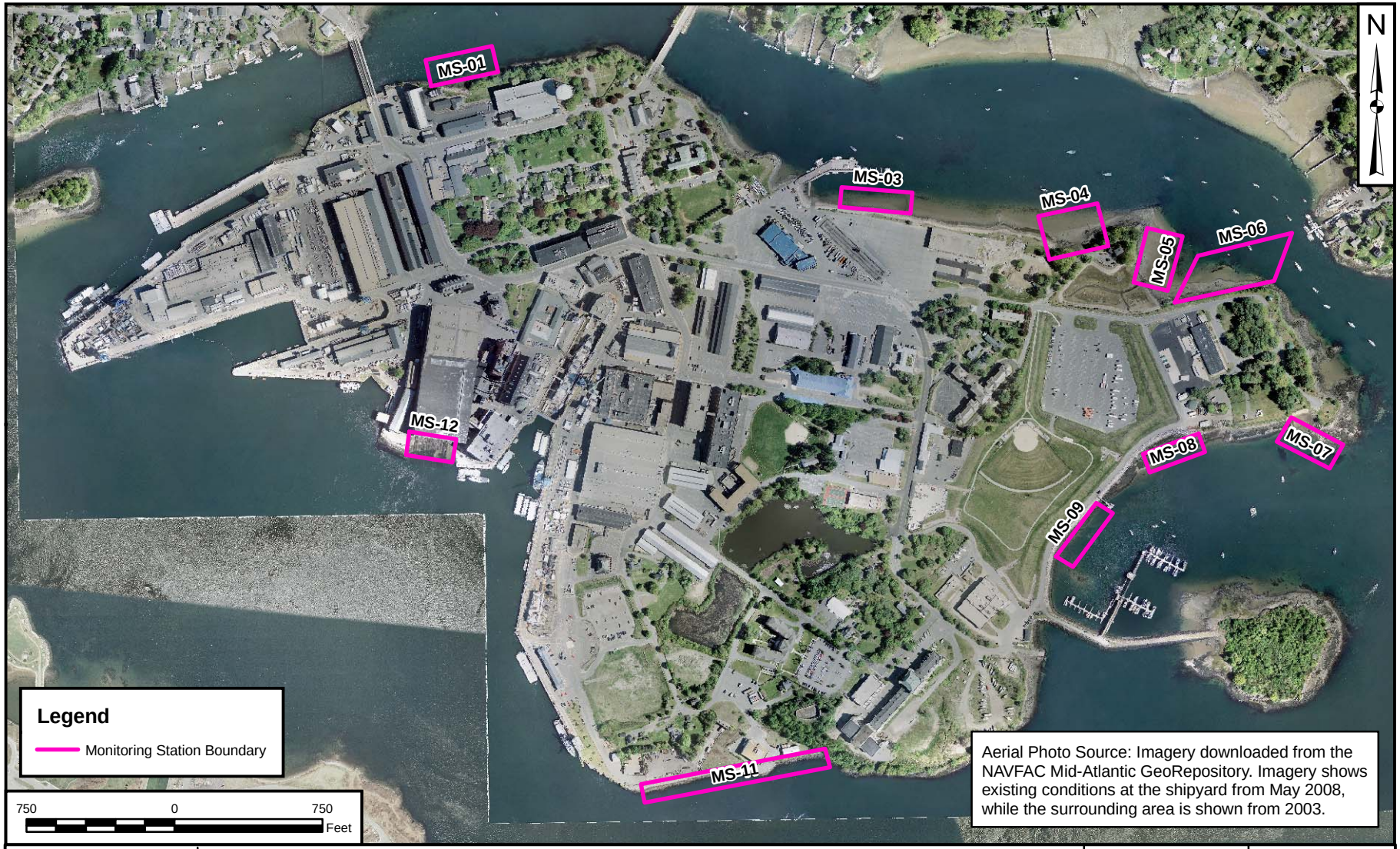

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CHECKED BY M. CARSON	DATE 08/04/11	OVERVIEW OF MONITORING STATION LOCATIONS ROUND 11 INTERIM OFFSHORE MONITORING PROGRAM OPERABLE UNIT 4 PORTSMOUTH NAVAL SHIPYARD KITTERY, MAINE	APPROVED BY — / DATE —
REVISED BY —	DATE —		APPROVED BY — / DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 2 / REV 0

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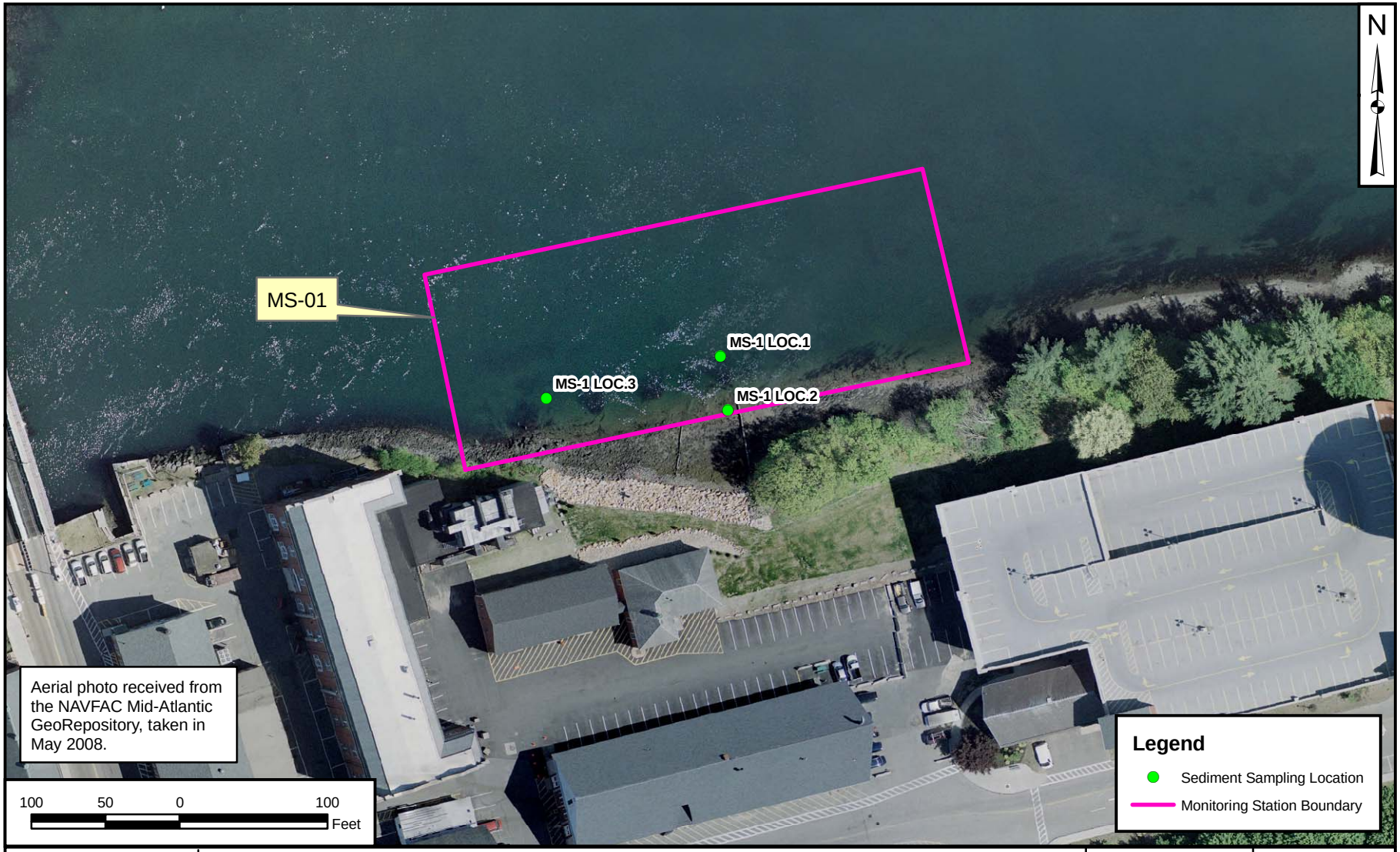

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K. MOORE	07/26/11		2225	WE29
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M. CARSON	09/15/11	ROUND 11 INTERIM OFFSHORE MONITORING PROGRAM	—	—
REVISED BY	DATE	PORTSMOUTH NAVAL SHIPYARD	APPROVED BY	DATE
—	—	KITTERY, MAINE	—	—
SCALE			FIGURE NO.	REV
AS NOTED			FIGURE 3	0

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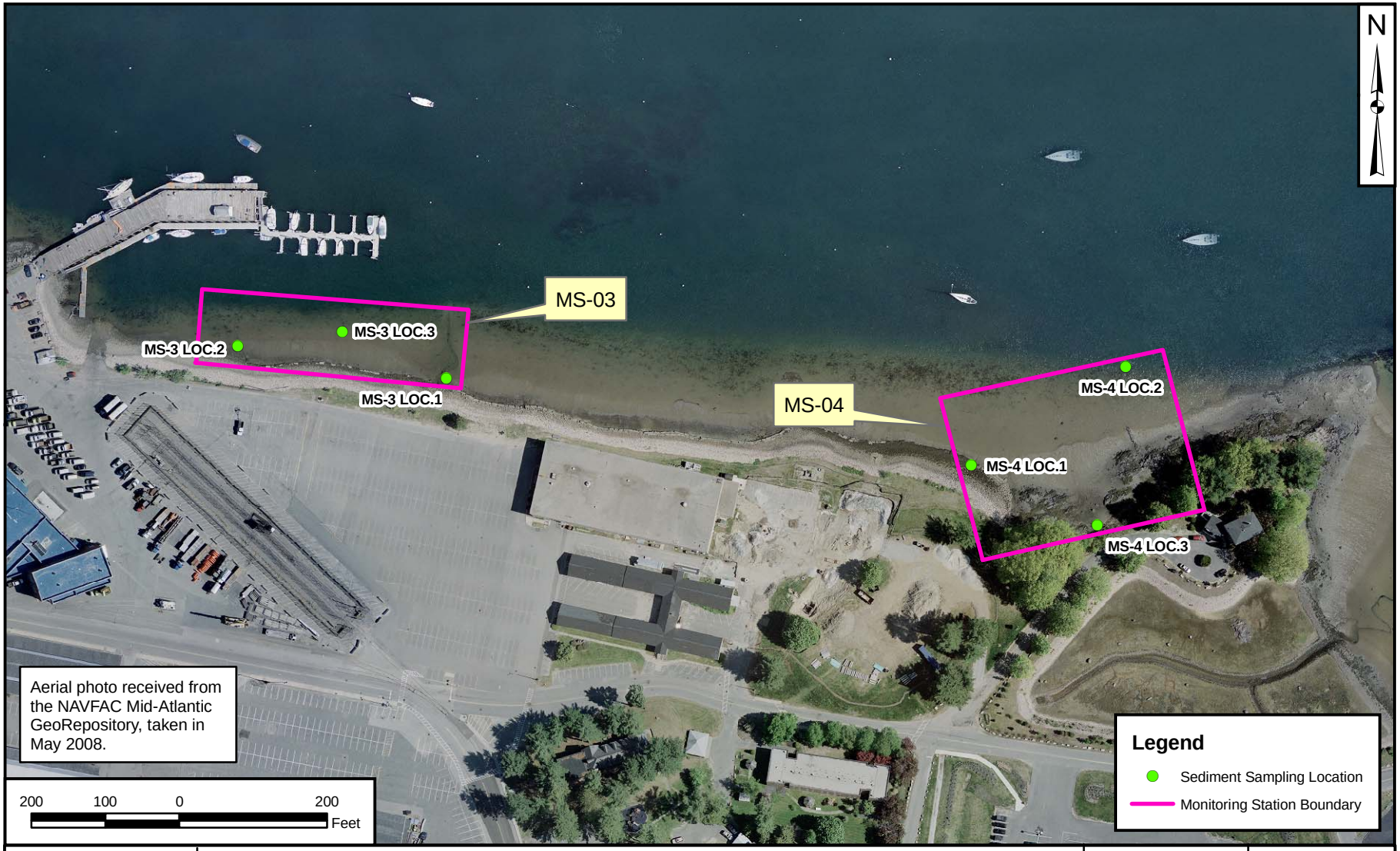

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REVISED BY —	DATE —		APPROVED BY — / DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 4 / REV 0

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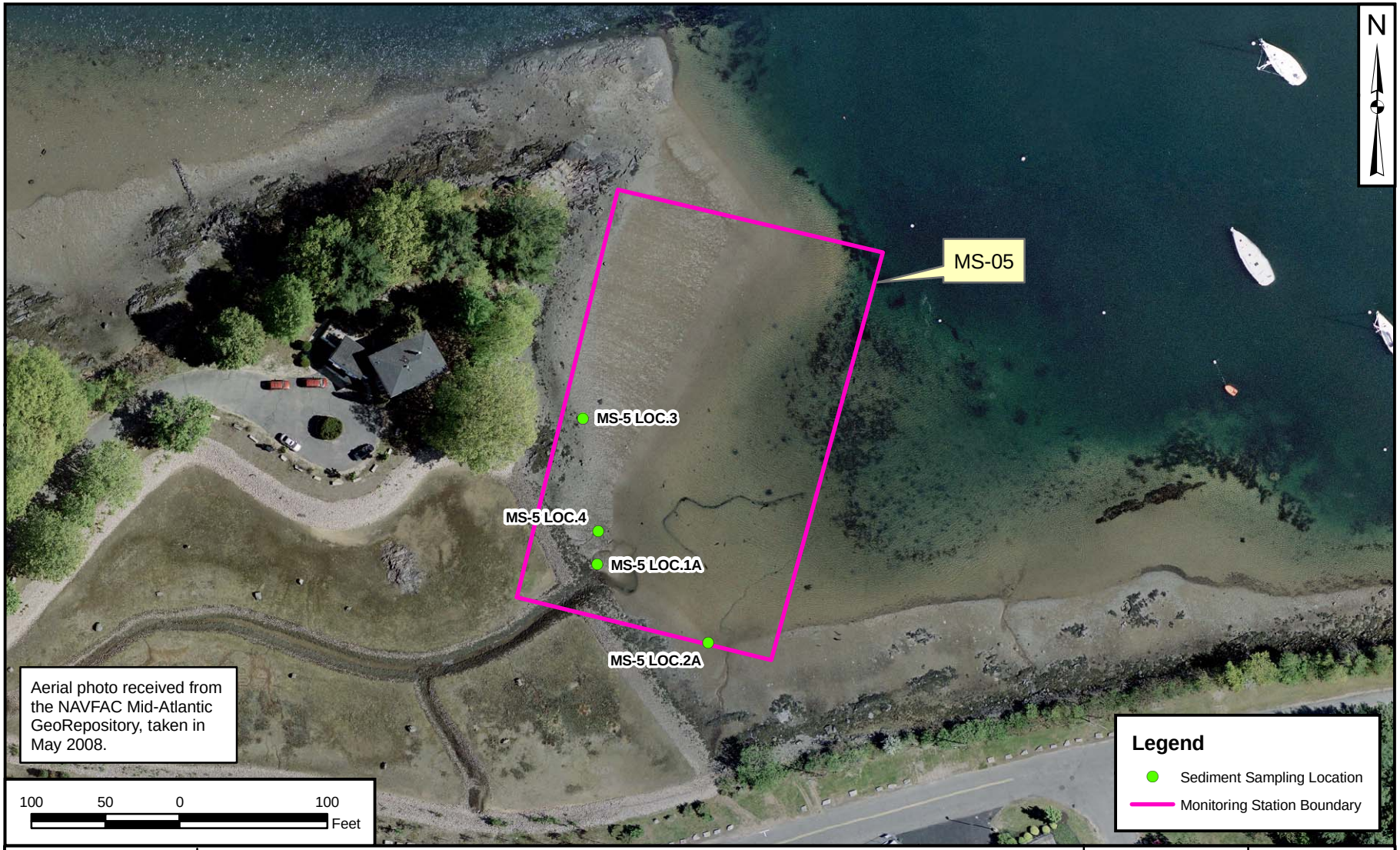

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REVISED BY —	DATE —		APPROVED BY — / DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 5 / REV 0

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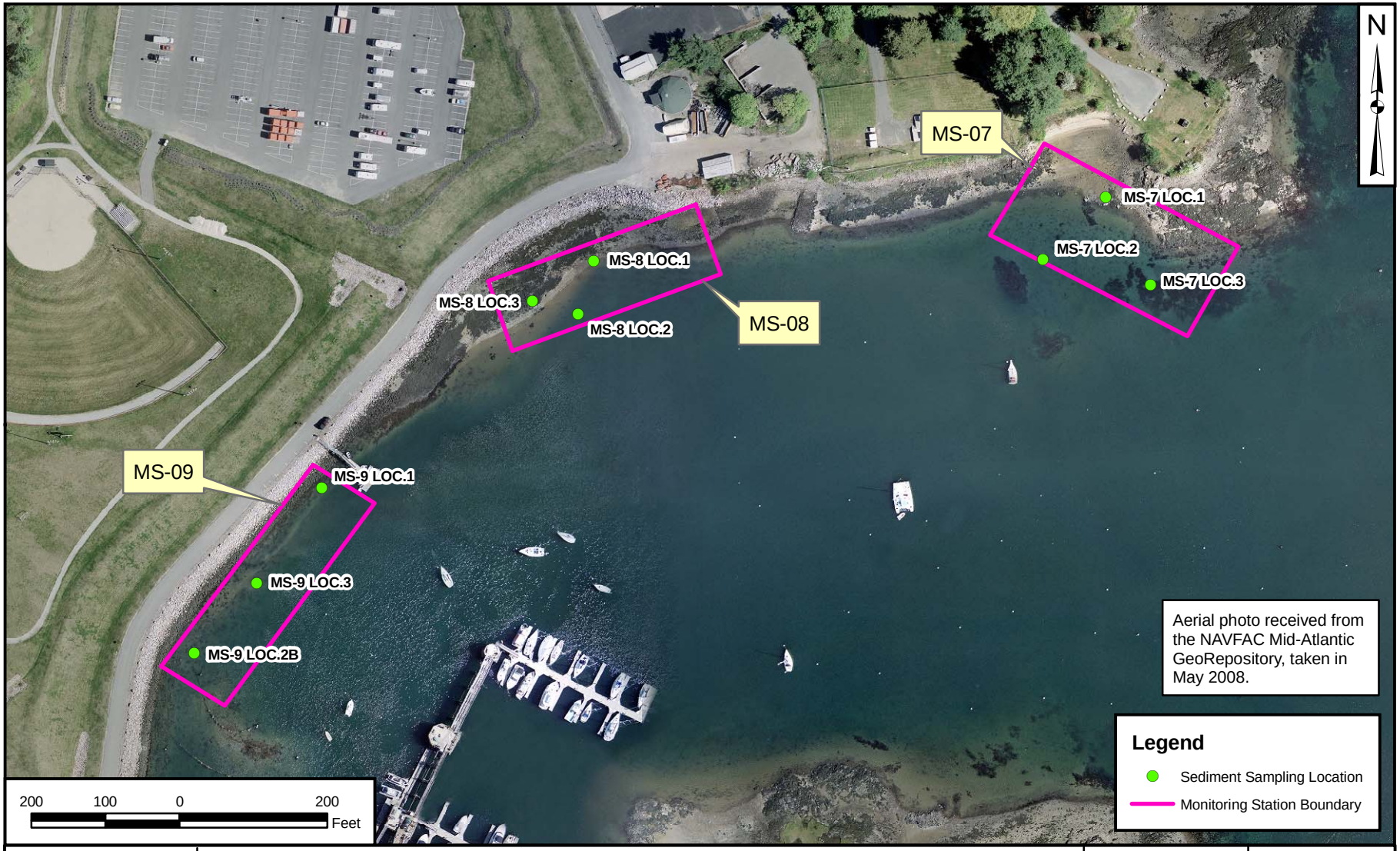
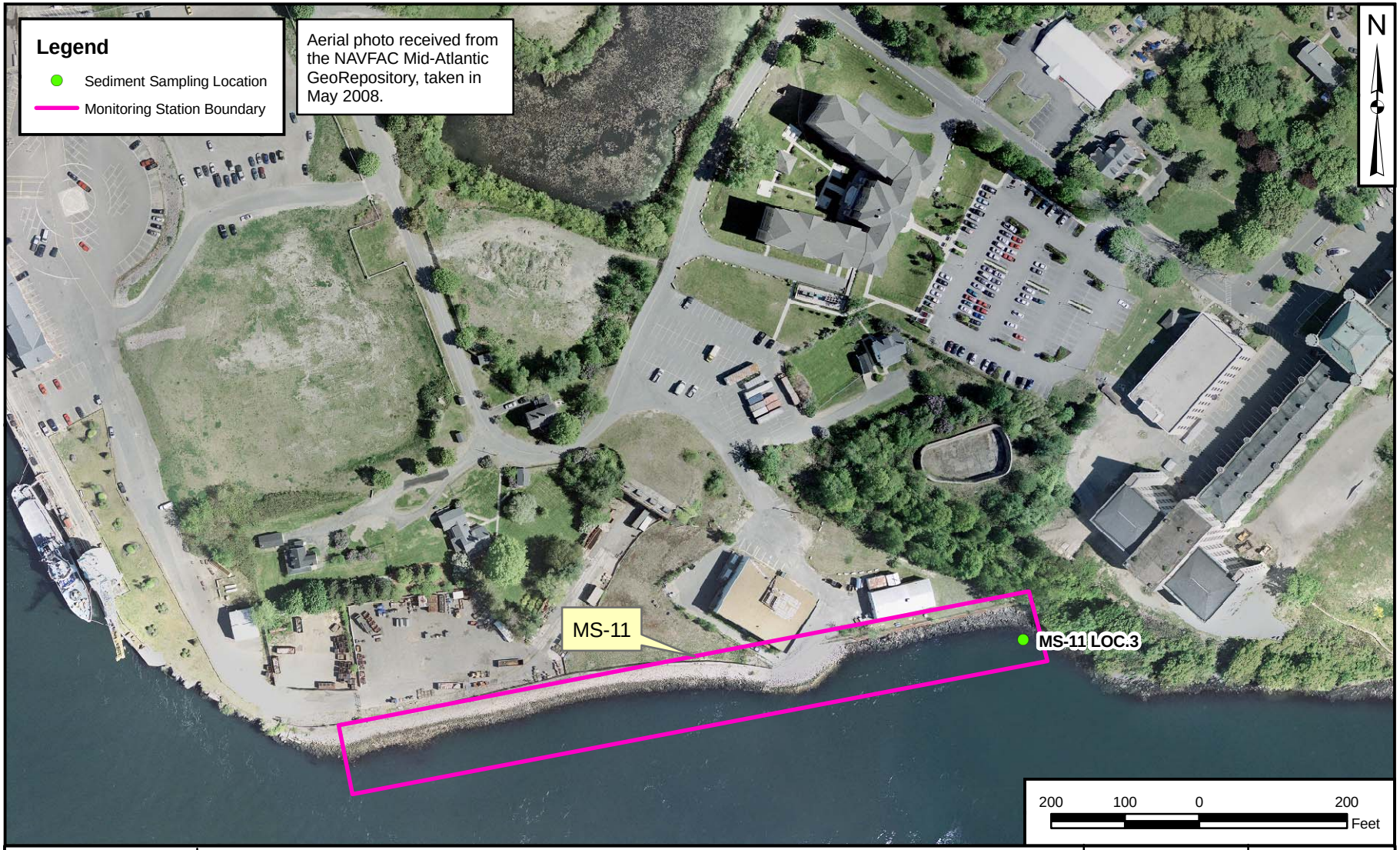


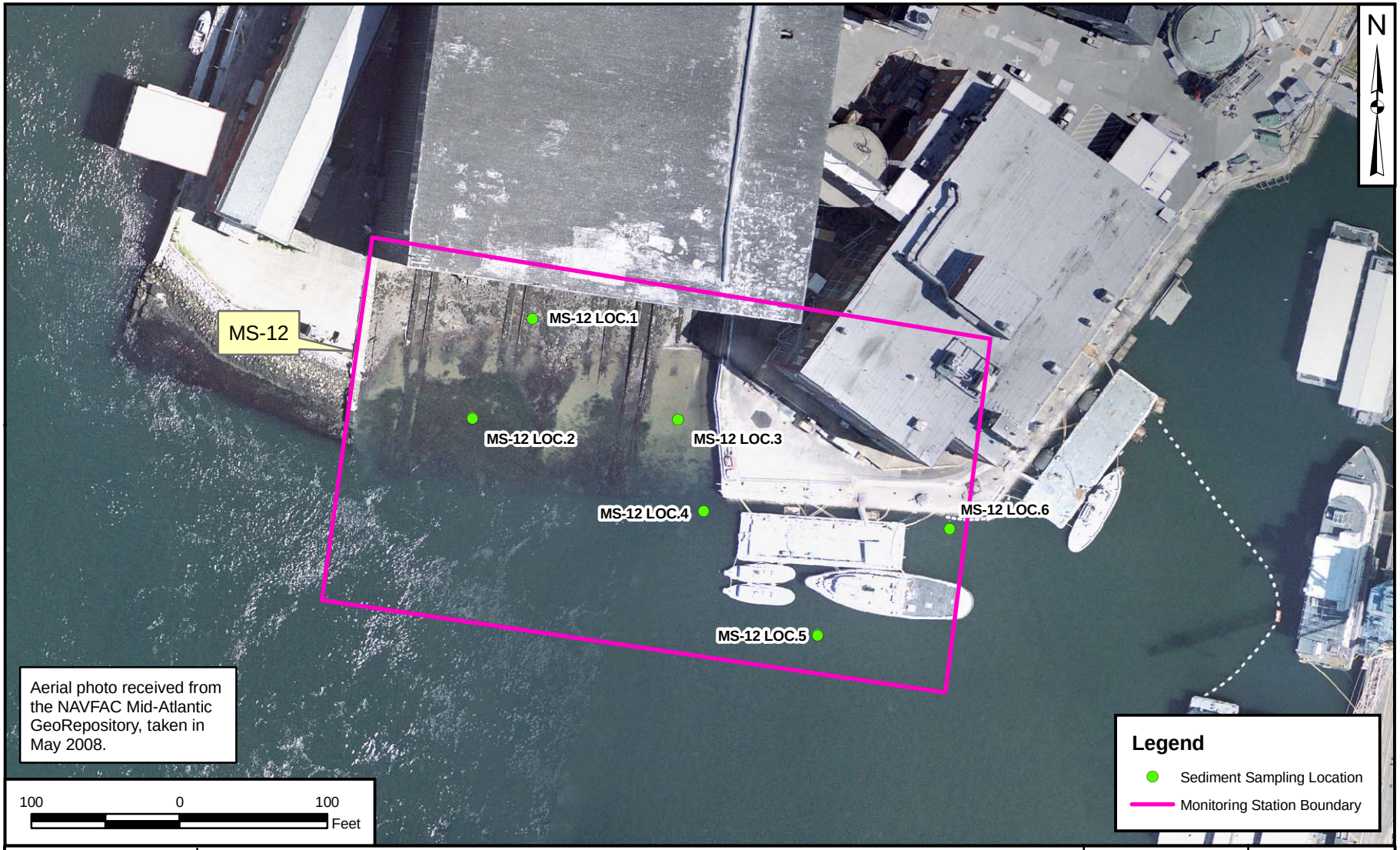
DRAWN BY K. MOORE	DATE 07/26/11	TETRA TECH	CONTRACT NUMBER 2225 / CTO NUMBER WE29
CHECKED BY M. CARSON	DATE 09/16/11	SEDIMENT SAMPLING LOCATIONS AT MS-07, 08, AND 09 ROUND 11 INTERIM OFFSHORE MONITORING PROGRAM PORTSMOUTH NAVAL SHIPYARD KITTERY, MAINE	APPROVED BY — DATE —
REVISED BY —	DATE —		APPROVED BY — DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 6 / REV 0

PGH P:\GIS\PORTSMOUTH_NSY\MXD\MONITORING_SITE_MAPS\OU4_MS11_SD_SAMPLING_ROUND11.MXD 09/15/11 JEE



DRAWN BY K. MOORE	DATE 07/26/11	TETRA TECH	CONTRACT NUMBER 2225 / CTO NUMBER WE29
CHECKED BY M. CARSON	DATE 09/15/11	SEDIMENT SAMPLING LOCATION AT MS-11 ROUND 11 INTERIM OFFSHORE MONITORING PROGRAM PORTSMOUTH NAVAL SHIPYARD KITTERY, MAINE	APPROVED BY — / DATE —
REVISED BY —	DATE —		APPROVED BY — / DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 7 / REV 0

PGH P:\GIS\PORTSMOUTH_NSY\MXD\MONITORING_SITE_MAPS\OU4_MS12_SD_SAMPLING_ROUND11.MXD 09/15/11 JEE



DRAWN BY J. ENGLISH	DATE 07/26/11	TETRA TECH	CONTRACT NUMBER 2225 / CTO NUMBER WE29
CHECKED BY M. CARSON	DATE 09/15/11	SEDIMENT SAMPLING LOCATIONS AT MS-12 ROUND 11 INTERIM OFFSHORE MONITORING PROGRAM PORTSMOUTH NAVAL SHIPYARD KITTERY, MAINE	APPROVED BY — / DATE —
REVISED BY —	DATE —		APPROVED BY — / DATE —
SCALE AS NOTED			FIGURE NO. FIGURE 8 / REV 0

APPENDIX A

FIELD LOG BOOKS

"Rite in the Rain"®

ALL-WEATHER

JOURNAL

No. 391

PL- 219

4/18/11 overcast - cool
0730 Meet Aqua Survey in Hotel
head to base
0900 Through security
0930 Meet with Joe & Matt
and conduct HR & Briefing
1130 Lunch
1200 launch boat head to MS03
loc 3 - subtidal
1315 collect composite sample for
~~MS~~ OU4-SD-M03-311B - PAHs & Cu
Coordinates: E = 2801800.37
N: 91494.16
1330 ~~Arrive~~ arrive at MS04 loc 2
coords: E = 2802854.85
N = 91449.91
1335 collect sample OU4-SD-M04-211B
for PAHs & ~~Metals~~ SEH Cu
1400 S. Hill sorts bottleware and
gets sampling supplies; subs move
~~1700~~ boat and run off site
1700 meet at dock area to
collect MS03 and MS04 intertidal
locations
1804 collect OU4-SD-M03-211B
PAHs & ~~metals~~ Cu + addimal
volume for stn limits
coordinants:
N: 2801966.5
E: 91348.95
1815 collect OU4-SD-M03-111B
PAHs & Cu
coordinats:
N: 2801940.42
E: 91429.57
1830 collect OU4-SD-M04-111B
PAHs & Cu
N = 2802646.43
E = 91318.45
1835 collect OU4-SD-M04-311B
PAHs & Cu
N = 2802819.2
E = 91228.105
1900 all off site

JEH

4/19/11 Rain - cool

0600 head to site to get boat and head up to MS01

0700 collect [OU4-SD-M01-111B] for PAHs + Dup [OU4-FD-041911-01]

see logsheets for further details

0740 collect [OU4-SD-M01-211B] for PAHs

0755 collect [OU4-SD-M01-311B] for PAHs

1057 collect [OU4-SD-M09-211B] for PAHs, Metals, DDT, PCBs, D/F

1125 collect [OU4-SD-M09-311B] for PAHs, Metals, DDT, PCB, D/F

1142 collect [OU4-SD-M08-211B] for PAHs, Metals, DDT, PCB, D/F

1210 collect [OU4-SD-M07-211B] for PAHs, Metals, DDT, PCB, D/F

1225 collect [OU4-SD-M07-311B] for PAHs, Metals, DDT, PCB, D/F

1340 collect [OU4-SD-M12-511B] for Lead

1350 collect [OU4-SD-M12-411B] for Lead

1405 collect [OU4-SD-M12-611B] for Lead

4/19/11 cont.

1412 collect [OU4-SD-M12-311B] for PAHs & Lead

1425 collect [OU4-SD-M12-211B] for PAHs & Lead

1440 Dock boat Aqua Survey offsite S. Hill completing paperwork and processing

1700 meet back up and set up for intertidal sampling

1740 collect [OU4-SD-M05-211B] for PAHs & Metals + MS/MSD

1750 collect [OU4-SD-M05-111B] for PAHs & metals + Dup [OU4-FD-041911-02]

1800 [OU4-SD-M05-411B] for PAHs & metals

1810 collect [OU4-SD-M05-311B] for PAHs & metals

1820 collect [OU4-SD-M07-111B] for PAHs, metals, DDT/PCB, D/F + Dup [OU4-FD-041911-03]

1850 collect [OU4-SD-M08-311B] for PAH, Metals, DDT, PCB, D/F

1900 collect [OU4-SD-M08-111B] for PAHs, metals, DDT, PCB, D/F + MS/MSD

4/19/11

1910 collect OU4-SD-M09-111B for PAHs, metals, DDT, PCB, D/F.

2000 S. Hill off site

4/20/11 Cold + mist

0630 meet at Shed then over to badging to get CIA access badges.

0700 Badging office informs us that we need our escort to come to office

0800 S. Lavoi signs us out head over to CIA

0830 collect OU4-SD M12-111B for PAHs + Lead

0900 head to Dock wait for camera

0930 get camera from Joe reevaluate tide. missed our window will have to sample tomorrow

1045 return camera to Joe's office (it can't go off site)

Lunch

1130 S. Hill works on paperwork and sample management. Aqua survey off site

1350 collect OU4-RB-042011-01

1400 collect OU4-SB-042011-01 Both for all parameters

1600 meet lab

4/21/11

0715 S. Hill onsite - wait for J. Lavoy for camera to take photos at MS11 and outside of OU2

0820 collect OU4-SO-MI1-3113 for Cu, Pb, Ni

Took a few photos - current still pretty rough. Head back to Shore.

0845 meet Katahdin for pickup

0900 head back to staging area can't access b/c they are running a drill. Will run off site to get shipping supplies.

1000 finally have access to site pack coolers and head to FedEx

1300 head to airport

APPENDIX B

SAMPLE COLLECTION LOG SHEETS

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS01-loc 1
Sample Location: 044-SD-MDL-111B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	0717	0-10cm	~~rock~~ Brown	~~rock~~ Gravelly SAND
Method: Ponar grab	0719	" "	Brown/Blk	SILT & SAND
	0720	" "	Brown	" "
Monitor Readings (Range in ppm): N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

12' to floor

MAP:

E 2799695.5
N 92139.33

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: 044-FD-041911-01

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS01 - Loc 2
Sample Location: OU4-SD-M01-21B
Sampled By: STH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/19/11	0730	0 - 10cm	Brown/Blk	SILT and SAND
Method:	0734	" "	↓	more gravel @ Surface
	0740	" "		
Monitor Readings (Range in ppm):	0740	→ sample	Time	
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	Y/S	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, NI	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

3.8

MAP:

E 2799701.10
N 92104.8

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS01- Loc 3
Sample Location: OU4- SD- MOL-301B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	0745	0 - 10cm	Brown/BLK	SAND + SILT gravel
Method: Ponar	0750	↓	↓	on surface
	0755			
Monitor Readings				
(Range in ppm):				
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

10'

MAP:

E = 2799580.24
N = 92112.10

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS03-10C1
Sample Location: OU4-SD-M03-11B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 4/18/11
Time: 815
Method: Grab
Monitor Reading (ppm):

Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-10cm	Brn/Blk	Silty SAND

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz		
Cu	4oz	yes	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, NI	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

Near Stream from runoff

MAP:

N: 2801940.42
E: 9429.57

Circle if Applicable:

MS/MSD —
Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS03-Loc 2
Sample Location: DUH-SD-M03-2UB
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/18/11 Time: 1804 Method: Grab Monitor Reading (ppm):	0-10 cm	Brown/Black	SILT & SAND

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz		
Cu	4oz	yes	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, NI	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

Faint marker
also collected location for school research

MAP:

N: 2801966.5
E: 91348.95

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 044-SD-MS03 Loc 3
Sample Location: 044-SD-MS03-3113
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:		~~Brown~~	Silt & Sand's Sediment
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
4/18/11	1308	0-	Brown	Silt & Sand
Method: Ponar grab	1310			
	1312			
Monitor Readings (Range in ppm):				
N/A	1315 = Sample Time			

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	—	
Cu	4oz	yes	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

water @ 15' above river bottom

MAP:

Coords:
E: 2801800.37
N: 91494.16

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page___ of ___

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS04-Loc 1
Sample Location: OU4-SD-M04-11B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/18/11			
Time: 1030	0-10 cm	Brown/Black	Silt + SAND
Method: Grab			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	YES	
Metals	4oz	—	
Cu	4oz	YES	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

Coordinates in GPS Took us in rocky/rip rap area

MAP:

N 2802646.43
E 9138.45

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS04 - Loc 02
Sample Location: OU4 - SD - MD4 - 21B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/18/11	1330		Brown	Silt + Sand
Method: Ponar Grab	1335			
	1335			
Monitor Readings (Range in ppm):	↳ Sample Time			
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz		
Cu	4oz	yes	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

Coords:
E = 280 2854.85
N = 91449.91

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS04-Loc 3
Sample Location: OU4-SD-MO4-311B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/18/11 Time: 1835 Method: Grab Monitor Reading (ppm): N/A	0-10cm	Brown/Black	SILT & SAND

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	—	
Cu	4oz	yes	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

found marks

MAP:

N: 2802819.2
E: 91228.65

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS05-01A
Sample Location: 044-SD-MS05-1113
Sampled By: SFH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: ~~1750~~ 4/19/11 Time: 1750 Method: Grab Monitor Reading (ppm): N/A	0-10cm	Brown/Blk	SILT w/ little sand & T- gravel/shells

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

E 2803148.34
N 91089.12

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: 044-FD-041911-02

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Page 1 of 1

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS05-Loc 2A
Sample Location: BAY4-SD-MOS-2 MB
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/19/11 Time: 1740 Method: Grab Monitor Reading (ppm): N/A	0-10cm	Brom/Blk	SILT w/ little sand

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Nl	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

E 2803223.83
N 91036.86

Circle if Applicable:

MS/MSD	Duplicate ID No.:
yes	~~yes~~

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS05-GOC.3
Sample Location: OU4-SD-MOS-311B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/11/11 Time: 1810 Method: Grab Monitor Reading (ppm): N/A	0-10cm	Brown/Blk	SILT + little sand T- gravel/shells

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

2803138.74
91188.16

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS05 - Loc 4
Sample Location: OU4-SD-MS05-4LB
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/19/11	0-10 cm	Brown/BLK	SILT w/little silt
Time: 1800			
Method: Grab			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

E 2803148.745
N 91110.39

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MB07- LOC 1
Sample Location: OU4-SD-MD7-111B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/19/11 Time: 1820 Method: Grab Monitor Reading (ppm): N/A	0-10 cm	Brn/Blk	SILT & SAND

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	yes	
Dioxin/furans	8oz	yes	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

found marker

MAP:

2803976.88
90306.89

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	OU4-FD-041911-03

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS07 - loc 2
Sample Location: 044-SD-M07-211B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
4/19/11	1155	0-10cm	Brown/BLK	SILT w/some Sand
Method:	1200	↓	↓	↓
Ponargrab	1200	collect sample		
Monitor Readings				
(Range in ppm):				
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	yes	
Dioxin/furans	8oz	yes	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

1410

MAP:

2803892.75
90223.66

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS07-Loc 3
Sample Location: OU4-SD-M07-311B
Sampled By: SFH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1215	0-10cm	Brown/BLK	SILT w/ some Sand
Method: ponar grab	1220	↓	↓	↓
	1225	Scollect Sample		
Monitor Readings (Range in ppm): N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	YES	
Metals	4oz	YES	
Cu	4oz	—	
4,4'-DDT/PCB	4oz	YES	
Dioxin/furans	8oz	YES	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

15'

MAP:

2804036.86
90188.41

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS08-LOC1
Sample Location: OU4-SD-MS08-111B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 9/19/11	0-10cm	Brown/Blk	SILT & SAND
Time: ~~1850~~ 1900			
Method: Grab			
Monitor Reading (ppm): N/A			

COMPOSITE SAMPLE DATA:

	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:				
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	Yes	
Metals	4oz	Yes	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	Yes	
Dioxin/furans	8oz	Yes	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

2803284.27
90220.42

Circle if Applicable:

MS/MSD: YES

Duplicate ID No.: ~~[illegible]~~

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MD8 - Loc 2
Sample Location: OU4-SD-MD8-2 11B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
4/19/11	1132	0-10cm	Brown/Blk	SAND w/some silt
Method:	1140	↓	↓	↓
poner grab	1142	collect sample		
Monitor Readings				
(Range in ppm):				
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT PBC	4oz	yes	
Dioxin/furans	8oz	yes	
~~PCB Congeners~~	~~4oz~~		
Cu, Pb, Ni	~~4oz~~		
Pb	4oz	—	

OBSERVATIONS / NOTES:

11.3

MAP:

2803259.48
901512

Circle if Applicable:

MS/MSD —

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS08- Loc 3
Sample Location: OU4-SD-MO8-311B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/19/11 Time: 1850 Method: Grab Monitor Reading (ppm): N/A	0-10cm	Brown/BLK	SILT & SAND

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	YES	
Metals	4oz	YES	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	YES	
Dioxin/furans	8oz	~~YES~~	
PCB Congeners	4oz	—	
Cu, Pb, NI	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

MAP:

28032 01.18
901 Cole .34

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS09-LOC1
Sample Location: OU4-SD-M09-111B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/19/11 Time: 1910 Method: Grab Monitor Reading (ppm): 0.0	0-10cm	Brown/BLK	SILT, SAND

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	yes	
Dioxin/furans	8oz	yes	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

Rocks at location moved ~2 ft.

MAP:

280 2922.06
89942.03

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS09 - Loc 2B
Sample Location: OU4-SD-MO9-21B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1053	0-10cm	Brown/Blk	SILT w/some sand
Method: Ponar grab	1055	↓	↓	very organic at surface
	1057	collect sample		
Monitor Readings (Range in ppm): N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	yes	
Dioxin/furans	8oz	yes	
~~PCB Congeners~~	~~4oz~~	~~yes~~	
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	

OBSERVATIONS / NOTES:

14' to bottom.

MAP:

E = 2802742.7
N = 89687.56

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS09-Loc 3
Sample Location: OU4-SD-MO9-3118
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1106	0-10cm	Brown/Blk	SILT w/some Sand
Method: Ponar grab	1119	↓	↓	organic material at surface
	1125	collect sample	↓	
Monitor Readings (Range in ppm):				
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	yes	
Cu	4oz	—	
4,4'-DDT / PCB	4oz	yes	
Dioxin/furans	8oz	yes	
~~PCB Congeners~~	~~4oz~~		
Cu, Pb, Ni	4oz	—	
Pb	4oz	—	
		—	

OBSERVATIONS / NOTES:

15'

MAP:

2802827.1
89786.0

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Yard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 044-SD-M11-3 11B
Sample Location: 044-MSD1-Loc3
Sampled By:
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/21/11 Time: 0820 Method: Grab Monitor Reading (ppm): 0.0	0-10cm	Brn/Blk	Silty SAND w/ gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
Cu, Pb, Ni	4oz glass	YES	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS12 - SOC 1
Sample Location: OU4-SD- MS2- 111B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 4/20/11 Time: 0930 Method: Grab Monitor Reading (ppm): 0.0	0-10cm	Brown/BLK	Silt & SAND w/ some gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	YES	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	YES	
Pb	4oz		

OBSERVATIONS / NOTES:

MAP:

~~N 90121.01~~ N 902516.58
E 2799524.59
DWG ADDED 5/3/11

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS12-Loc 2
Sample Location: OU4-SD-M12-2 1LB
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1435	0-10cm	Brown/BLK	SILT + SAND w/ gravel
Method:	1420	↓	↓	at Surface
	1435	Filled sample		
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	YES	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	~~YES~~	
Pb	4oz	Yes MMC	8/11/11

OBSERVATIONS / NOTES:

MAP:

N 90184.79 ADDED DCW 8/31/11
E 2799484.09

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MD12 - loc 3
Sample Location: OU4-SD-M12-3 1B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date:			
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 6/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1407	0-10 cm	Brown/Blk	SAND + SILT w/ gravel at
Method:	1410	↓	↓	surface
	1412	Collect Sample		
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	yes	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	yes	

OBSERVATIONS / NOTES:

MAP:

N 90185.50
E 2799623.35

QCW 5/3/11

Circle if Applicable:

MS/MSD —

Duplicate ID No.: ~~OU4-MD-MP-1~~

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS12 - Loc 4
Sample Location: 044-SD-M12-411B
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
4/19/11	1345	0-10cm	Brown/BLK	SILT & SAND w/gravel
Method:	1347	0-10cm	↓	at surface
ponar grab	1350	0-10cm	↓	
Monitor Readings		Collect sample		
(Range in ppm):				
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	—	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	4CS	

OBSERVATIONS / NOTES:

53'

MAP:

N 90121.01
E 2799640.84

ADDED DCW 5/3/11

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS12- Loc 5
Sample Location: OU4-SP-M12-5
Sampled By: SEH
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1330	0-10cm	Brown	Gravel
Method: ponore grab	1335	↓	Brown/Blk	Silt + Sand
	1340	collect sample	↓	↓
Monitor Readings				
(Range in ppm):				
N/A				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	~~[illegible]~~ SEH	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, NI	4oz	—	
Pb	4oz	yes	

OBSERVATIONS / NOTES:

~~[illegible]~~ 60'

MAP:

E: 2799718.16
N: 90037.17

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: Portsmouth Naval Shipyard
Project No.: 112G02225 LT.SB

[] Surface Soil
[] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: MS12 - Loc C
Sample Location: OU4-SD-M12-C
Sampled By:
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 4/19/11	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	1355	0-10cm	Brown/Blk	SILT + SAND w/ some
Method:	1400	↓	↓	gravel at surface
	1405	collect sample		↓
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PAHs	4oz	—	
Metals	4oz	—	
Cu	4oz	—	
4,4'-DDT	4oz	—	
Dioxin/furans	8oz	—	
PCB Congeners	4oz	—	
Cu, Pb, Ni	4oz	—	
Pb	4oz	Yes	

OBSERVATIONS / NOTES:

481

MAP:

N 90109.39
E 2799807.34

ADDED DCW 5/3/11

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

APPENDIX C

CHAIN OF CUSTODY FORMS

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 2 OF 6

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Wilt 412-921-7090	Kyle Perkins / Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	TAL Metals	4,4'-DDT/DDE/DDD	Dioxin/Furans	Lead				COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	G	G	G				
		PRESERVATIVE USED				4°C	4°C	4°C	4°C	4°C				
4/19	1210	OU4-SD-M07-211B	Sed	C	4	1	1	1	1	—				*
	1225	OU4-SD-M07-311B			4	1	1	1	1	—				*
	~~1340~~	~~OU4-SD-M12-511B~~			~~4~~	~~1~~	~~1~~	~~1~~	~~1~~					~~*~~ SU
	1340	OU4-SD-M12-511B			1	1	—	—	—	1				
	1350	OU4-SD-M12-411B			1	—	—	—	—	1				
	1405	OU4-SD-M12-611B			1	—	—	—	—	1				
	1412	OU4-SD-M12-311B			2	1	—	—	—	1				
	1425	OU4-SD-M12-211B			2	1	—	—	—	1				
	1710	OU4-SD-M05-211B			~~6~~ 4	2	2	—	—	—				Run in s/m20
	1750	OU4-SD-M05-111B			2	1	1	—	—	—				
	1800	OU4-SD-M05-411B			2	1	1	—	—	—				
	1810	OU4-SD-M05-311B			2	1	1	—	—	—				
↓	0000	OU4-FD-041911-02			2	1	1	—	—	—				

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	4/20/11	1107	[signature]	4/20/11	1107
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * Bottles have on ots. 1/ot c- 1 Boc. use ~~ratio~~ volume as margin

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 3 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Don Witt 412-921-7090	Kathy Perkins/Kalmbach
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT [x]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAHs	metals	4,4' DDT/PCB	Dioxin/Furans	Lead				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	G				
PRESERVATIVE USED						4°C	4°C	4°C	4°C	4°C				
4/19	1800	OU4-SD-M07-111B	Sed	C	4	1	1	1	1	—				*
	1850	OU4-SD-M08-311B			4	1	1	1	1	—				*
	0000	OU4-FD-041911-03			4	1	1	1	1	—				*
	1900	OU4-SD-M08-111B			12	3	3	3	3	—				*
	1910	OU4-SD-M09-111B			4	1	1	1	1	—				*
4/20	0810	OU4-SD-M12-111B			2	1	—	—	—	1				

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	4/20/11	1162		4/20/11	16:07
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * Bottles have an extra 4oz. Use extra volume as necessary

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FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 4 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins / Kravaider
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412 921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	Pesticide	PCB	Dioxins/Furans	TAL Metals				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	2				
PRESERVATIVE USED						HPC	HPC	HPC	HPC	HNO3				
4/20	1350	OU4-RB-042011-01	Aq	G	9	2	2	2	2	2				
↓	1400	OU4-SB-042011-01	↓	↓	↓	2	2	2	2	2				

1. RELINQUISHED BY	DATE 4/20/11	TIME 1400	1. RECEIVED BY	DATE 4/20/11	TIME 1000
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02255	OU4	Dan Witt 412 921-7090	Kelly Parkes / Kalamazoo
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-927-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G G G G
PRESERVATIVE USED: 4°C 4°C 4°C 4°C 4°C

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PAH	Cooper	TAL Metals	4,4'-DDT	PCB (Aroclor)	Dioxin/Furans				COMMENTS
4/18	1315	OU4-SD-M03-311B	Sed	C	2	1	1	—	—	—					
	1335	OU4-SD-M01-211B			2	1	1	—	—	—					
	1404	OU4-SD-M03-211B			2	1	1	—	—	—					
	1805	OU4-SD-M03-111B			2	1	1	—	—	—					
	1830	OU4-SD-M04-111B			2	1	1	—	—	—					
	1835	OU4-SD-M04-311B			2	1	1	—	—	—					
4/19	0720	OU4-SD-M01-111B			1	1	—	—	—	—					
	0740	OU4-SD-M01-211B			1	1	—	—	—	—					
	0755	OU4-SD-M01-311B			1	1	—	—	—	—					
	0000	OU4-FD-041911-01			1	1	—	—	—	—					
	1057	OU4-SD-M09-211B			4	1	—	1	1	1					
	1125	OU4-SD-M09-311B			4	1	—	1	1	1					
	1142	OU4-SD-M08-211B			4	1	—	1	1	1					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/20/11	1600	1. RECEIVED BY	4/20/11	1600
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 1

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan White 412-921-7090	Kelly Perkins / Kathleen
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Cu, Pb, Ni							COMMENTS
4/21	0820	OU4-SD-1111-311B	Sed	C	1	1							

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	4/21/11	0955		4/21/11	0955
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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FORM NO. TtNUS-001

APPENDIX D

DATA QUALITY REVIEW, DATA VALIDATION LETTERS (ON CD)
AND
DATABASE [NAVY FORMAT AND MEDEP FORMAT (ON CD)]

APPENDIX D
ANALYTICAL DATA QUALITY REVIEW
INTERIM OFFSHORE MONITORING PLAN FOR OPERABLE UNIT 4
PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE

A description of the data review processes used to determine whether analytical laboratory data were of acceptable technical quality for use in decision making is presented in this data quality review (DQR). The review began with data verification and validation. Verification is a process used to ensure that contractual requirements were satisfied. Validation is a comparison of data quality indicators (DQIs) against prescribed acceptance criteria to assess analytical method performance. The DQIs used are measures to assess the bias and precision of the analytical calibrations and sample analyses. Together, verification and validation are the first steps in evaluating data completeness, accuracy, precision, sensitivity, comparability, and representativeness. The data review process culminates with a data usability assessment during which the final usability of the data is established relative to the intended data use.

1.0 DATA VERIFICATION AND VALIDATION PROCESSES

All components of the data packages, provided by the analytical laboratory, were verified to be complete enough to support data validation. All of the results from analytical laboratory samples were validated according to several specifications. Assignment of data qualification flags conformed to rules established in the USEPA Region 1 Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses – Part II (December 1996), USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses (November 2008), and the Department of Defense (DoD) document entitled Quality Systems Manual (QSM) for Environmental Laboratories (2009) to the greatest extent practicable for non-contract laboratory program data. Project screening criteria used in conjunction with these rules were specified in the Interim Offshore Monitoring Plan for OU4 (2010) to establish goals for reporting.

If no qualifier is assigned to a result that has been validated, the data user is assured that no analytical performance deficiencies were identified during validation. The qualification flags used are defined below:

U – Indicates that the chemical was not detected at the numerical detection limit noted. Non-detected results are reported with a “U” qualifier when received from the laboratory. Additionally, a “U” qualifier is added to a result (reported by the laboratory) if the detected concentration is determined to be attributable to contamination introduced during field sampling or laboratory analysis.

UJ – Indicates that the chemical was not detected. However, the detection limit (sample-specific quantitation limit) is considered to be estimated based on problems encountered during laboratory analysis. The associated numerical detection limit is regarded as inaccurate.

J – Indicates that the chemical was detected. However, the associated numerical result is not an accurate representation of the amount actually present in the sample. The laboratory reported concentration is considered to be an estimate of the true concentration.

UR – Indicates that the chemical may or may not be present. The non-detected analytical result reported by the laboratory is considered to be unreliable and unusable. The “UR” qualifier is applied in cases of gross technical deficiencies (i.e., holding times missed by a factor of two times the specified time limit, severe calibration noncompliances, and extremely low quality control [QC] recoveries).

R – Indicates that the chemical may or may not be present. The analytical result reported by the laboratory is considered to be unreliable and unusable. The “R” qualifier is applied in cases of gross technical deficiencies (i.e., holding times missed by a factor of two times the specified time limit, severe calibration noncompliances, and extremely low QC recoveries).

The preceding data qualifiers may be categorized as indicative of major or minor problems. Major problems are defined as issues that result in the rejection of data and qualification with “UR” or “R” data validation qualifiers. Rejected data are considered invalid and are not used for decision making purposes unless used in a qualitative way and the use is justified and documented. Less severe deficiencies, associated with “U”, “J”, and “UJ” data validation qualifiers, are defined as issues resulting in the estimation of data. Estimated analytical results are considered to be suitable for decision-making purposes unless the data use requirements are very stringent and the qualifier indicates a deficiency that is incompatible with the intended data use. Also, a “U” qualifier does not necessarily indicate that a data deficiency exists because all non-detect values are flagged with the “U” qualifier regardless of whether a quality deficiency has been detected.

No data were rejected during evaluation of sample results from the Round 11 sampling and analysis of the Interim Offshore Monitoring Plan for OU4 (2010). Qualified data and the reasons for qualification are presented in Table D-1.

2.0 DATA VALIDATION OUTPUTS

After laboratory data were validated, a list was developed of non-conformities requiring data qualifier flags that were used to alert the data user to inaccurate or imprecise data. For situations in which several QC criteria were out of specification, the data validator made professional judgments and or comments on the

validity of the overall data package. The reviewer then prepared a technical memorandum documenting qualification of the data, if necessary, and the rationale for making such qualifications. The net result was a data package that had been carefully reviewed for its adherence to prescribed technical requirements. Data validators incorporated data qualifiers into the electronic database and submitted the information to the Tetra Tech NUS, Inc. (Tetra Tech) data management group. A complete printout of the data results with validation flags is presented in Tables 3-1 through 3-9 of the Interim Offshore Monitoring Program Round 11 Data Package for OU4. Pertinent quality estimates are summarized in a more quantitative format in the following sections.

3.0 GENERAL DATA QUALITY REVIEW

The DQR provided herein is designed to provide an overall quantitative measure of analytical performance not provided by data validation. The analytical performance quantitative evaluations are frequently analyte-specific and reflect deficiencies such as biases associated with the quantification of particular analytes in a particular sample matrix. The data user must be aware that different chemicals in the same analytical fraction (e.g., lead and copper in the metals fraction) may exhibit different degrees of quality.

3.1 Completeness

Completeness is a measure of the number of valid samples or measurements available relative to the number of samples or measurements that were intended to be generated. For this project, completeness was measured on two different bases, samples collected and laboratory measurements.

- Sample completeness was a measure of the usable samples collected as compared to those intended to be collected.

- Laboratory measurement completeness was a measure of the amount of usable, valid laboratory measurements per matrix obtained for each target analyte.

Usable, valid samples (or results) were those judged, after data assessment, to represent the sampled populations and to have not been disqualified for use through data validation or additional data review. Completeness was determined using the following equation:

$$\%C = \frac{V}{T} \text{ x } 100$$

where %C = percent completeness

V = number of samples (or results) determined to be valid

T = total number of planned samples (or results)

All sediment samples proposed for Round 11 of the Interim Offshore Monitoring Program were collected and analyzed. All samples were analyzed in accordance with the Interim Offshore Monitoring Plan; except for the pesticide analysis. A full list of pesticides were reported by the laboratory; however, only 4,4'-DDT was requested for analysis. The sample percent completeness is 100 percent.

The percent completeness for laboratory measurements was 100 percent for all fractions, as all samples sent to the laboratory were analyzed for the appropriate fractions and no results were qualified as rejected.

In summary, sample completeness for this project is 100 percent. Laboratory completeness for this project was 100 percent. The percent completeness goal for this project is 95 percent, as defined in the OU4 Interim Offshore Monitoring Plan (2010); therefore, completeness goals for this sampling round were surpassed.

3.2 Sensitivity

The lowest reportable non-detected concentration in a sample is the limit of detection (LOD). When possible, analytical methods were used that have LODs less than project screening levels (PSLs). In doing so, the project team was assured that analyte concentrations could be reported at concentrations as low as the PSLs. However, occasionally, unanticipated but necessary sample manipulations or laboratory contamination cause adjustments to be made to the reported LODs. Unanticipated sample conditions (e.g., a low solids content) can also result in an adjustment. If an adjusted LOD is greater than the corresponding PSL and the measured result is classified as a non-detect, the reported analyte concentration cannot be compared directly to the PSL. This creates uncertainty as to whether the analyte is present in the affected samples at a concentration equal to the PSL. If an adjustment is slight, the consequence to the project is generally insignificant. However, larger adjustments can adversely affect project decision making. An evaluation of attainment of sensitivity goals identifies instances whereby reported non-detect values exceed PSLs.

The PSLs were met for most analytes. The LOD reported by the laboratory were less than the screening levels specified in the Interim Offshore Monitoring Plan for OU4 (2010) for most compounds. Table D-2 lists, for all chemicals that had at least one LOD greater than PSLs, the minimum and maximum non-detected results and the number of non-detected results that exceeded the corresponding minimum screening level. The reported analyte-specific non-detect values are the LODs.

Several non-detected results for 2,3,4,7,8-PECDF (40 percent), 2,3,7,8-TCDF (60 percent), and polychlorinated biphenyl (PCB)-153 (60 percent) exceeded the PSLs. The sample results were qualified as non-detected because the associated laboratory blank was contaminated, indicating that the samples may have been contaminated during analysis. This resulted in non-detected sample results being reported at an elevated non-detect value to account for the effect of potential laboratory contamination on the target analyte concentrations in the samples.

One non-detect result for perylene exceeded the perylene PSL because dilution of the sample, which was implemented to facilitate the chemical analysis, resulted in an increased detection limit. All other undiluted non-detected results were less than or equal to the PSLs.

Table D-2 shows that several non-detected results for 1,1-biphenyl, PCB-101, PCB-105, PCB-126, PCB-128, PCB-138, PCB-170, PCB-18, PCB-180, PCB-187, PCB-195, PCB-206, PCB-209, PCB-28, PCB-44, PCB-52, PCB-66, PCB-77, PCB-8, PCB-81,and trans-nonachlor exceeded PSLs. All sample results had low percent solids and/or were analyzed at a dilution. The low solids content of these samples caused the LODs to be increased when accounting for the moisture content of the samples, as prescribed by the analysis protocol. Dilution factors also increased the LODs. The slight exceedances are considered to be minor.

Three percent (nine of 280, not identified on Table D-2) of the PCB results were qualified because of the detection of blank contamination. This resulted in elevated non-detect values. Results are reported at elevated non-detect values to eliminate the possibility of reporting a false detection resulting from contamination.

Eighteen percent (45 of 250) of the dioxins/furans results were qualified because of contaminated laboratory blanks associated with the samples. This resulted in elevated non-detect values. Results are reported at elevated non-detect values to eliminate the possibility of reporting a false detection resulting from contamination.

PSLs were not established for pesticide (except tans-nonachlor and 4,4-DDT) results. The non-detected data were evaluated for potential outliers, as seen in Table D-3, when compared to previous sampling rounds. All round 11 data was within an acceptable range from previous rounds.

Dioxin/furan, polycyclic aromatic hydrocarbon (PAH), PCBs, and pesticide results were considered to be acceptable with regard to sensitivity. However, the data user should be aware, however that some LODs

exceeded PSLs and in those cases the measured analyte concentrations cannot be compared directly to the PSL.

3.3 Laboratory Accuracy

Accuracy in the laboratory was measured through the evaluation of calibration percent differences (%D)/relative standard deviation (RSD), laboratory control sample/laboratory control sample duplicate (LCS/LCSD) percent recoveries (%R), matrix spike/matrix spike duplicate (MS/MSD) percent recoveries, and surrogate spike percent recoveries. Instrument calibrations are analyzed to verify the ability of the instrument to produce acceptable qualitative and quantitative data. Calibrations are evaluated using RSD for initial calibrations and %D for continuing calibration. LCS/LCSD results are compared to a known or calculated value and are expressed as a %R. Surrogates are monitored by the analytical recovery of select surrogate compounds added to samples that are analyzed by organic chromatographic methods and the analytical recovery of calibration check standards for all analyses. LCSs were used to assess the accuracy of laboratory operations with minimal effects from the sample matrix. MS/MSD and surrogate compound analyses measure the combined accuracy effects of the sample matrix, sample preparation, and sample measurement. LCS and MS analyses were performed at a frequency of one per 20 associated samples of like matrix. Laboratory accuracy was assessed by comparing calculated %R values to accuracy control limits specified by the laboratory using the appropriate SW-846 Method.

Percent recovery is calculated using the following equation:

$$\%R = \frac{Ss - So}{S} \times 100$$

where %R = percent recovery
Ss = result of spiked sample
So = result of non-spiked sample
S = concentration of spiked amount.

The inductively coupled plasma (ICP) Interference Check Sample (ICS) is evaluated to verify the laboratory's inter-element and background correction factors, and to account for potential spectral overlaps and stray light interferences caused by the interfering analytes aluminum, calcium, iron, and magnesium. ICP ICS interference can affect the accuracy of analyte results and is also evaluated in this section.

One percent (five of 532) of the PAH results were qualified as estimated (J) for %D greater than the QC limits in a continuing calibration standard. In this case the %D is the difference between a continuing

calibration and the initial calibration. Deviations from the prescribed QC limits in this case are an indication that the accuracy of the analysis may be compromised. Calibration noncompliances were minor and not egregious enough to qualify affected data as rejected.

Nine percent (20 of 230) of the pesticide results were qualified as estimated (J) for %D greater than the QC limits in a continuing calibration standard. The calibration noncompliance was not egregious enough to qualify affected data as rejected.

Fourteen percent (38 of 280) of the PCB congener results were qualified as estimated (J) for %D greater than the QC limits in a continuing calibration standard. The calibration noncompliance was not egregious enough to qualify affected data as rejected.

One percent (four of 532) of the PAH results were qualified as estimated (UJ) for low percent recovery in a LCS/LCSD. The LCS/LCSD noncompliance was not egregious enough to qualify affected data as rejected; however, data users should be aware that LCS/LCSD %Rs were less than the QC limit, which indicates that copper results are biased low.

One percent (two of 532) of the PAH results were qualified as estimated (J) for high %R for perylene and low %R for fluoranthene in a matrix MS/MSD. The MS/MSD noncompliance was not egregious enough to qualify affected data as rejected; however, data users should be aware that MS/MSD %R were less than the QC limit, which indicates that perylene results are biased high and fluoranthene results are biased low.

Less than one percent (one of 230) of the pesticide results were qualified as estimated (J) for high %R for 4,4'-DDD in a MS/MSD. The MS/MSD noncompliance was not egregious enough to qualify affected data as rejected; however, data users should be aware that MS/MSD %R were greater than the QC limit, which indicates that the 4,4'-DDD result for the sample used for the MS is biased high.

Fourteen percent (28 of 195) of the metal results were qualified as estimated (J) for high %R for copper, manganese, and zinc in a matrix spike and MS/MSD. The MS/MSD noncompliance was not egregious enough to qualify affected data as rejected; however, data users should be aware that MS/MSD %Rs were greater than the QC limit, which indicates that copper, manganese, and zinc results are biased high in the spiked samples and possibly in other samples as a result of sample matrix interferences.

One percent (six of 532) of the PAH results were qualified as estimated (J and UJ) because of low surrogate recoveries. Percent recoveries were not low enough to qualify affected data as rejected;

however, data users should be aware that QC data indicate that qualified PAH results are biased low in the affected samples.

Ten percent (23 of 230) of the pesticide results were qualified as estimated (J) because of low surrogate recoveries. Percent recoveries noncompliances were not egregious enough to qualify affected data as rejected; however, data users should be aware that QC data indicate that qualified pesticide results are biased low in the affected samples.

Fourteen percent (40 of 280) of the PCB results were qualified as estimated (J) for low surrogate recovery noncompliances. Percent recoveries noncompliances were not egregious enough to qualify affected data as rejected; however, data users should be aware that QC data indicate that qualified PCB results are biased low in the affected samples.

Four percent (nine of 230) of the pesticide results were qualified as estimated (J) because the concentrations measured for the same sample on two different chromatographic columns (as prescribed by the analytical method) differed by more than 40 percent. However, these relative percent difference (RPD) values were not egregious enough to qualify affected data as rejected.

Eight percent (22 of 280) of the PCB results were qualified as estimated (J) because the RPD between chromatographic columns was greater than 40 percent. RPDs were not egregious enough to qualify affected data as rejected.

Fifteen percent (30 of 195) of the metal results were qualified as estimated (J) for ICP interference standard noncompliance. The ICP interference standard is evaluated to verify the laboratory's inter-element and background correction factors are properly adjusted to account for possible interference due to large concentrations of aluminum, calcium, iron, and magnesium, which may cause the reported concentrations of other analytes to be biased high or low. The following analytes were qualified: cadmium and silver. Interference standard noncompliances were not egregious enough to qualify affected data as rejected.

Twenty nine percent (73 of 250) of the dioxin results were qualified as estimated (J) for estimated maximum possible concentrations (EMPC) noncompliances. The EMPC noncompliances were not egregious enough to qualify affected data as rejected.

All results for samples: OU4-SD-M09-111B, OU4-SD-M09-211B, and OU4-SD-M09-311B were qualified as estimated (J and UJ) due to percent solids less than 30 percent. Percent solid noncompliances were not egregious enough to qualify affected data as rejected; therefore, the data are considered to be

acceptable for project use; however, data users should be aware that QC data indicate that qualified results are biased high.

The 1,2,3,7,8-PECDF result for sample OU4-SD-M09-311B was qualified as estimated (UJ) due to matrix interference in the sample. The matrix interference noncompliances were not egregious enough to qualify affected data as rejected.

3.4 Laboratory Precision

Precision is a measure of the degree to which two or more measurements are in agreement and describes the reproducibility of measurements of the same parameter for samples analyzed under similar conditions.

Precision for chemical parameters is expressed as an RPD, which is defined as the ratio of the difference to the mean for the two values being evaluated. RPDs, typically expressed as percentages, are used to evaluate both field and laboratory duplicate precision and are calculated as follows:

$$RPD = \frac{|V1 - V2|}{(V1 + V2)/2} \times 100$$

where RPD = relative percent difference

V1, V2 = two results obtained by analyzing duplicate samples

The precision estimates obtained from duplicate field samples encompass the combined uncertainty associated with sample collection, homogenization, splitting, handling, laboratory and field storage (as applicable), preparation for analysis, and analysis. In contrast, precision estimates obtained from analyzing duplicate laboratory samples incorporate only homogenization, sub sampling, preparation for analysis, laboratory storage (if applicable), and analysis uncertainties.

Five percent (24 of 532) of the PAH results were qualified as estimated (J) for field duplicates %R being outside the QC limits. Field duplicates are analyzed to evaluate homogenization, splitting, handling, laboratory and field storage (as applicable), preparation for analysis, and analysis uncertainties. The field duplicate noncompliance was not egregious enough to qualify affected data as rejected.

Several detected PAH, pesticide, PCB, dioxans/furans, and metals results were qualified as estimated due to uncertainty near the detection limit. Those results were reported as detections at concentrations greater than the method detection limit (MDL) but less than limit of quantitation (LOQ). Results that are

qualified due to uncertainty near the detection limit are considered to be less precise than concentrations that are greater than the LOQ. This means that any particular result between MDL and LOQ is likely to be less accurate than a concentration reported to be greater than the LOQ. Therefore, results in the concentration range between MDL and LOQ are automatically qualified as estimated, regardless of the identification of any quality deficiencies. However, such non-compliances are not egregious enough to quality the affected data as rejected, according to data validation guidelines used for this project; therefore, this data imprecision is considered to be acceptable.

LCS/LCSD RPD non-compliances were noted for all PAH compounds. Sample results were not qualified for RPD non-compliances as they were not considered egregious enough to warrant qualification.

MS/MSD RPD non-compliances were noted for phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, and benzo(b)fluoranthene. Sample results were not qualified for RPD non-compliances as they were not considered egregious enough to warrant qualification.

3.5 Comparability

Comparability is defined as the confidence with which one data set can be compared with another (e.g., among sampling points and among sampling events). Comparability was achieved by using standardized sampling and analysis methods, as well as standardized data reporting formats. Comparability of laboratory measurements was achieved primarily through the use and documentation of standard sampling and analytical methods. Results were reported in units that ensured comparability with previous data and with current state and federal standards and guidelines. Comparability of laboratory measurements was assessed primarily through the use of QC samples and through adherence to the quality assurance (QA) plan.

3.6 Representativeness

Representativeness is an expression of the degree to which data accurately and precisely depict the actual characteristics of a population or environmental condition existing at the site. The Interim Offshore Monitoring Plan (2010) and the use of standardized sampling, sample handling, sample analysis, and data reporting procedures were designed so that the final data would be accurate representations of actual site conditions. The DQR found the data collected to be representative of targeted soil populations

4.0 DATA DEFICIENCIES

No data were rejected during evaluation of sample results for Round 11 of the Interim Offshore Monitoring Plan and there were no non-detect values greater than PSLs or Project Remediation Goals (PRGs). The

Round 11 data set is complete and comparable to previous rounds. The samples represent that the intended populations, and accuracy and precision of the data are consistent with data of past OU 4 investigations and typical environmental investigations in general; therefore, the data set for Round 11 is considered to be acceptable for project use, as intended with consideration of J-qualifiers added to indicate a potential slight high or low bias or a potentially elevated level of uncertainty compared to data that are not qualified.

Table D-1
Qualified Data Table
Round 11- Interim Offshore Monitoring Program
Portsmouth Naval Shipyard, Kittery. Maine

Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M07-111B	1,2,3,4,7,8,9-HPCDF	DIOX	0.245	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B	1,2,3,4,7,8-HXCDD	DIOX	0.358	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B	1,2,3,4,7,8-HXCDF	DIOX	0.495	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B	1,2,3,6,7,8-HXCDD	DIOX	1.14	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	1,2,3,6,7,8-HXCDF	DIOX	0.42	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	1,2,3,7,8,9-HXCDD	DIOX	0.821	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B	1,2,3,7,8-PECDF	DIOX	0.268	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B	2,3,4,6,7,8-HXCDF	DIOX	0.651	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	2,3,4,7,8-PECDF	DIOX	0.5	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B	2,3,7,8-TCDF	DIOX	0.812	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B	TOTAL HPCDF	DIOX	20.5	J	W	NG/KG	EMPC result
OU4-SD-M07-111B	TOTAL HXCDD	DIOX	12.9	J	W	NG/KG	EMPC result
OU4-SD-M07-111B	TOTAL HXCDF	DIOX	8.02	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B	TOTAL PECDD	DIOX	2.75	J	W	NG/KG	EMPC result
OU4-SD-M07-111B	TOTAL PECDF	DIOX	4.09	J	W	NG/KG	EMPC result
OU4-SD-M07-111B	TOTAL TCDF	DIOX	3.34	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B-D	1,2,3,4,7,8-HXCDD	DIOX	0.315	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B-D	1,2,3,4,7,8-HXCDF	DIOX	0.632	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B-D	1,2,3,6,7,8-HXCDD	DIOX	1.4	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B-D	1,2,3,6,7,8-HXCDF	DIOX	0.57	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	2,3,4,6,7,8-HXCDF	DIOX	0.741	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B-D	2,3,4,7,8-PECDF	DIOX	0.679	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-111B-D	2,3,7,8-TCDF	DIOX	0.869	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B-D	TOTAL HXCDD	DIOX	13	J	W	NG/KG	EMPC result
OU4-SD-M07-111B-D	TOTAL HXCDF	DIOX	7.99	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-111B-D	TOTAL PECDD	DIOX	3.14	J	W	NG/KG	EMPC result
OU4-SD-M07-111B-D	TOTAL PECDF	DIOX	5.11	J	W	NG/KG	EMPC result
OU4-SD-M07-111B-D	TOTAL TCDF	DIOX	1.9	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-211B	1,2,3,4,7,8,9-HPCDF	DIOX	0.541	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-211B	1,2,3,4,7,8-HXCDD	DIOX	0.562	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-211B	1,2,3,4,7,8-HXCDF	DIOX	0.88	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-211B	1,2,3,6,7,8-HXCDD	DIOX	2.14	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	1,2,3,6,7,8-HXCDF	DIOX	0.62	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-211B	1,2,3,7,8,9-HXCDD	DIOX	1.48	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	1,2,3,7,8-PECDD	DIOX	0.425	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-211B	1,2,3,7,8-PECDF	DIOX	0.473	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-211B	2,3,4,6,7,8-HXCDF	DIOX	0.869	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-211B	2,3,4,7,8-PECDF	DIOX	1.02	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-211B	2,3,7,8-TCDF	DIOX	1.3	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-211B	TOTAL HPCDF	DIOX	44.3	J	W	NG/KG	EMPC result
OU4-SD-M07-211B	TOTAL HXCDD	DIOX	21.1	J	W	NG/KG	EMPC result
OU4-SD-M07-211B	TOTAL HXCDF	DIOX	13.9	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-211B	TOTAL PECDD	DIOX	4.41	J	W	NG/KG	EMPC result
OU4-SD-M07-211B	TOTAL PECDF	DIOX	6.84	J	W	NG/KG	EMPC result
OU4-SD-M07-211B	TOTAL TCDD	DIOX	1.61	J	W	NG/KG	EMPC result
OU4-SD-M07-211B	TOTAL TCDF	DIOX	4.23	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	1,2,3,4,7,8,9-HPCDF	DIOX	0.79	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	1,2,3,4,7,8-HXCDD	DIOX	0.586	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-311B	1,2,3,4,7,8-HXCDF	DIOX	0.821	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M07-311B	1,2,3,6,7,8-HXCDD	DIOX	2.17	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	1,2,3,6,7,8-HXCDF	DIOX	0.526	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	1,2,3,7,8,9-HXCDD	DIOX	1.3	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	1,2,3,7,8-PECDD	DIOX	0.477	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	1,2,3,7,8-PECDF	DIOX	0.37	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	2,3,4,6,7,8-HXCDF	DIOX	0.969	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	2,3,4,7,8-PECDF	DIOX	0.868	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	2,3,7,8-TCDF	DIOX	1.42	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	TOTAL HPCDF	DIOX	67.5	J	W	NG/KG	EMPC result
OU4-SD-M07-311B	TOTAL HXCDD	DIOX	22.2	J	W	NG/KG	EMPC result
OU4-SD-M07-311B	TOTAL HXCDF	DIOX	13.6	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M07-311B	TOTAL PECDF	DIOX	6.49	J	W	NG/KG	EMPC result
OU4-SD-M07-311B	TOTAL TCDD	DIOX	3.08	J	W	NG/KG	EMPC result
OU4-SD-M07-311B	TOTAL TCDF	DIOX	5.07	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-111B	1,2,3,4,6,7,8-HPCDF	DIOX	5.28	J	W	NG/KG	EMPC result
OU4-SD-M08-111B	1,2,3,4,7,8-HXCDF	DIOX	0.49	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-111B	1,2,3,6,7,8-HXCDF	DIOX	0.503	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	2,3,4,6,7,8-HXCDF	DIOX	0.63	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	2,3,4,7,8-PECDF	DIOX	0.683	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-111B	2,3,7,8-TCDF	DIOX	0.864	U	A	NG/KG	Lab Blank Contamination

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Portsmouth Naval Shipyard, Kittery. Maine

Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M08-111B	TOTAL HPCDF	DIOX	10.8	J	W	NG/KG	EMPC result
OU4-SD-M08-111B	TOTAL HXCDF	DIOX	6.59	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-111B	TOTAL PECDD	DIOX	1.25	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-111B	TOTAL PECDF	DIOX	4.45	J	W	NG/KG	EMPC result
OU4-SD-M08-111B	TOTAL TCDF	DIOX	2.99	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-211B	1,2,3,4,7,8,9-HPCDF	DIOX	1.52	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	1,2,3,4,7,8-HXCDD	DIOX	1.04	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-211B	1,2,3,4,7,8-HXCDF	DIOX	3.32	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-211B	1,2,3,7,8,9-HXCDD	DIOX	1.68	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	1,2,3,7,8,9-HXCDF	DIOX	0.926	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	1,2,3,7,8-PECDD	DIOX	0.975	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	1,2,3,7,8-PECDF	DIOX	1.47	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-211B	2,3,7,8-TCDF	DIOX	2.41	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-211B	TOTAL HPCDF	DIOX	58.9	J	W	NG/KG	EMPC result
OU4-SD-M08-211B	TOTAL HXCDD	DIOX	34.4	J	W	NG/KG	EMPC result
OU4-SD-M08-211B	TOTAL HXCDF	DIOX	37.6	J	W	NG/KG	EMPC result
OU4-SD-M08-211B	TOTAL PECDD	DIOX	16.1	J	W	NG/KG	EMPC result
OU4-SD-M08-211B	TOTAL PECDF	DIOX	29.8	J	W	NG/KG	EMPC result
OU4-SD-M08-211B	TOTAL TCDD	DIOX	7.59	J	W	NG/KG	EMPC result
OU4-SD-M08-211B	TOTAL TCDF	DIOX	27.6	J	W	NG/KG	EMPC result
OU4-SD-M08-311B	1,2,3,4,7,8,9-HPCDF	DIOX	0.256	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	1,2,3,4,7,8-HXCDD	DIOX	0.21	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-311B	1,2,3,4,7,8-HXCDF	DIOX	0.408	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-311B	1,2,3,6,7,8-HXCDD	DIOX	0.777	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-311B	1,2,3,6,7,8-HXCDF	DIOX	0.352	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-311B	1,2,3,7,8,9-HXCDD	DIOX	0.527	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	1,2,3,7,8-PECDD	DIOX	0.238	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	1,2,3,7,8-PECDF	DIOX	0.222	J	PW	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result
OU4-SD-M08-311B	2,3,4,6,7,8-HXCDF	DIOX	0.674	J	P	NG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	2,3,4,7,8-PECDF	DIOX	0.746	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-311B	2,3,7,8-TCDF	DIOX	0.686	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-311B	TOTAL HXCDD	DIOX	8.06	J	W	NG/KG	EMPC result
OU4-SD-M08-311B	TOTAL HXCDF	DIOX	7.43	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M08-311B	TOTAL PECDD	DIOX	2.08	J	W	NG/KG	EMPC result
OU4-SD-M08-311B	TOTAL PECDF	DIOX	4.78	J	W	NG/KG	EMPC result
OU4-SD-M08-311B	TOTAL TCDD	DIOX	0.881	J	W	NG/KG	EMPC result
OU4-SD-M08-311B	TOTAL TCDF	DIOX	3.12	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-111B	1,2,3,4,6,7,8,9-OCDD	DIOX	475	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,4,6,7,8,9-OCDF	DIOX	34.2	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,4,6,7,8-HPCDD	DIOX	62.1	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,4,6,7,8-HPCDF	DIOX	20.2	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,4,7,8,9-HPCDF	DIOX	1.56	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	1,2,3,4,7,8-HXCDD	DIOX	1.08	UJ	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,4,7,8-HXCDF	DIOX	2.94	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-111B	1,2,3,6,7,8-HXCDD	DIOX	3.43	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	1,2,3,6,7,8-HXCDF	DIOX	2.18	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	1,2,3,7,8,9-HXCDD	DIOX	1.81	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	1,2,3,7,8,9-HXCDF	DIOX	0.914	UJ	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,7,8-PECDD	DIOX	0.935	UJ	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	1,2,3,7,8-PECDF	DIOX	1.85	J	PWY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result, Percent solids <30%
OU4-SD-M09-111B	2,3,4,6,7,8-HXCDF	DIOX	3.16	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	2,3,4,7,8-PECDF	DIOX	3.22	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-111B	2,3,7,8-TCDD	DIOX	0.791	UJ	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	2,3,7,8-TCDF	DIOX	2.94	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-111B	TOTAL HPCDD	DIOX	225	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	TOTAL HPCDF	DIOX	59.1	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	TOTAL HXCDD	DIOX	33.6	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-111B	TOTAL HXCDF	DIOX	28.9	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	TOTAL PECDD	DIOX	10.4	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-111B	TOTAL PECDF	DIOX	27	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-111B	TOTAL TCDD	DIOX	3.7	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-111B	TOTAL TCDF	DIOX	26.3	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,6,7,8,9-OCDD	DIOX	1720	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,6,7,8,9-OCDF	DIOX	106	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,6,7,8-HPCDD	DIOX	218	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,6,7,8-HPCDF	DIOX	72.9	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,7,8,9-HPCDF	DIOX	5.33	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,7,8-HXCDD	DIOX	4.76	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,4,7,8-HXCDF	DIOX	7.36	J	Y	NG/KG	Percent solids <30%

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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M09-211B	1,2,3,6,7,8-HXCDD	DIOX	9.31	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,6,7,8-HXCDF	DIOX	6.09	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,7,8,9-HXCDD	DIOX	5.86	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	1,2,3,7,8,9-HXCDF	DIOX	2.13	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	1,2,3,7,8-PECDD	DIOX	2.93	J	PWY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result, Percent solids <30%
OU4-SD-M09-211B	1,2,3,7,8-PECDF	DIOX	3.57	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-211B	2,3,4,6,7,8-HXCDF	DIOX	8.61	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	2,3,4,7,8-PECDF	DIOX	7.38	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-211B	2,3,7,8-TCDD	DIOX	0.607	J	PWY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result, Percent solids <30%
OU4-SD-M09-211B	2,3,7,8-TCDF	DIOX	4.81	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-211B	TOTAL HPCDD	DIOX	611	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-211B	TOTAL HPCDF	DIOX	204	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	TOTAL HXCDD	DIOX	119	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	TOTAL HXCDF	DIOX	93.8	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	TOTAL PECDD	DIOX	38.9	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	TOTAL PECDF	DIOX	65.7	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	TOTAL TCDD	DIOX	18.9	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-211B	TOTAL TCDF	DIOX	57.4	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,6,7,8,9-OCDD	DIOX	511	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,6,7,8,9-OCDF	DIOX	32.4	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,6,7,8-HPCDD	DIOX	67.4	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,6,7,8-HPCDF	DIOX	22.4	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,7,8,9-HPCDF	DIOX	1.32	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,7,8-HXCDD	DIOX	1.22	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	1,2,3,4,7,8-HXCDF	DIOX	3.14	J	PWY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), EMPC result, Percent solids <30%
OU4-SD-M09-311B	1,2,3,6,7,8-HXCDD	DIOX	3.87	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	1,2,3,6,7,8-HXCDF	DIOX	2.38	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	1,2,3,7,8,9-HXCDD	DIOX	2.4	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-311B	1,2,3,7,8,9-HXCDF	DIOX	1.02	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	1,2,3,7,8-PECDD	DIOX	0.78	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	1,2,3,7,8-PECDF	DIOX	2.43	UJ	QY	NG/KG	Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.), Percent solids <30%
OU4-SD-M09-311B	2,3,4,6,7,8-HXCDF	DIOX	3.48	J	PY	NG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	2,3,4,7,8-PECDF	DIOX	3.57	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-311B	2,3,7,8-TCDD	DIOX	0.679	UJ	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	2,3,7,8-TCDF	DIOX	2.8	U	A	NG/KG	Lab Blank Contamination
OU4-SD-M09-311B	TOTAL HPCDD	DIOX	197	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	TOTAL HPCDF	DIOX	62.5	J	Y	NG/KG	Percent solids <30%
OU4-SD-M09-311B	TOTAL HXCDD	DIOX	42.2	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-311B	TOTAL HXCDF	DIOX	36.4	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-311B	TOTAL PECDD	DIOX	14.3	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-311B	TOTAL PECDF	DIOX	26.6	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-311B	TOTAL TCDD	DIOX	5.83	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SD-M09-311B	TOTAL TCDF	DIOX	33	J	WY	NG/KG	EMPC result, Percent solids <30%
OU4-SB-042011-01	COPPER	M	0.67	J	P	UG/L	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	CADMIUM	M	0.79	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	COPPER	M	296	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-111B	MANGANESE	M	267	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-111B	SILVER	M	0.94	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	ZINC	M	304	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-111B-D	CADMIUM	M	0.77	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	COPPER	M	272	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-111B-D	MANGANESE	M	249	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-111B-D	SILVER	M	0.89	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	ZINC	M	282	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-211B	CADMIUM	M	0.32	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	SILVER	M	0.34	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	CADMIUM	M	0.32	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	COPPER	M	13.1	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-311B	MANGANESE	M	153	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-311B	SILVER	M	0.26	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	ZINC	M	64.4	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-411B	CADMIUM	M	0.5	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-411B	COPPER	M	57	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-411B	MANGANESE	M	219	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-411B	SILVER	M	0.3	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-411B	ZINC	M	111	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M07-111B	CADMIUM	M	0.23	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	COPPER	M	15.7	J	D	MG/KG	MS/MSD Recovery Noncompliance

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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M07-111B	MANGANESE	M	131	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M07-111B	SILVER	M	0.16	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	ZINC	M	54.9	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M07-111B-D	CADMIUM	M	0.18	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	COPPER	M	19.8	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M07-111B-D	MANGANESE	M	127	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M07-111B-D	SILVER	M	0.16	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	ZINC	M	57	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M07-211B	CADMIUM	M	0.79	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	SILVER	M	0.64	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	CADMIUM	M	0.63	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	SILVER	M	0.57	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	CADMIUM	M	0.19	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	COPPER	M	43.4	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-111B	MANGANESE	M	129	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-111B	SILVER	M	0.18	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	ZINC	M	86.3	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-211B	CADMIUM	M	0.35	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	SILVER	M	0.43	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	CADMIUM	M	0.1	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	COPPER	M	26.4	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-311B	MANGANESE	M	123	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-311B	SILVER	M	0.16	J	KP	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	ZINC	M	47.7	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M09-111B	ALUMINUM	M	18400	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	ARSENIC	M	18	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	CADMIUM	M	0.53	J	KPY	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	CHROMIUM	M	79.6	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	COPPER	M	112	J	DY	MG/KG	MS/MSD Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	IRON	M	28000	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	LEAD	M	78.1	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	MANGANESE	M	284	J	DY	MG/KG	MS/MSD Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	MERCURY	M	0.28	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	NICKEL	M	34	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-111B	SILVER	M	0.73	J	KPY	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	ZINC	M	149	J	DY	MG/KG	MS/MSD Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-211B	ALUMINUM	M	16800	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	ARSENIC	M	16.9	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	CADMIUM	M	0.85	J	KPY	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	CHROMIUM	M	86	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	COPPER	M	93.2	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	IRON	M	27100	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	LEAD	M	133	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	MANGANESE	M	284	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	MERCURY	M	0.45	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	NICKEL	M	31.8	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-211B	SILVER	M	0.52	J	KPY	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	ZINC	M	173	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	ALUMINUM	M	18400	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	ARSENIC	M	17.8	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	CADMIUM	M	0.75	J	KPY	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	CHROMIUM	M	88.8	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	COPPER	M	99	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	IRON	M	28500	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	LEAD	M	93.4	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	MANGANESE	M	301	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	MERCURY	M	0.46	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	NICKEL	M	35.1	J	Y	MG/KG	Percent solids <30%
OU4-SD-M09-311B	SILVER	M	0.56	J	KPY	MG/KG	ICP Interference - includes ICS % R Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	ZINC	M	162	J	Y	MG/KG	Percent solids <30%
OU4-SD-M11-311B	COPPER	M	88.4	J	D	MG/KG	MS/MSD Recovery Noncompliance
OU4-RB-042011-01	1,1-BIPHENYL	PAH	0.095	UJ	E	UG/L	LCS/LCSD Recovery Noncompliance
OU4-RB-042011-01	FLUORANTHENE	PAH	0.095	UJ	E	UG/L	LCS/LCSD Recovery Noncompliance

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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SB-042011-01	1,1-BIPHENYL	PAH	0.097	UJ	E	UG/L	LCS/LCSD Recovery Noncompliance
OU4-SB-042011-01	FLUORANTHENE	PAH	0.097	UJ	E	UG/L	LCS/LCSD Recovery Noncompliance
OU4-SD-M01-111B	1,1-BIPHENYL	PAH	5.5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-111B	ACENAPHTHYLENE	PAH	12	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-111B	ANTHRACENE	PAH	68	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M01-111B-D	1,1-BIPHENYL	PAH	5.9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-111B-D	ACENAPHTHENE	PAH	8.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-111B-D	ACENAPHTHYLENE	PAH	21	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-111B-D	ANTHRACENE	PAH	32	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M01-211B	1,1-BIPHENYL	PAH	9.5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-211B	ACENAPHTHENE	PAH	6.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-211B	ACENAPHTHYLENE	PAH	23	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-211B	FLUORENE	PAH	15	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-311B	1,1-BIPHENYL	PAH	12	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M01-311B	INDENO(1,2,3-CD)PYRENE	PAH	700	J	C	UG/KG	Calibration Noncompliance
OU4-SD-M03-111B	1,1-BIPHENYL	PAH	4.9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-111B	ACENAPHTHENE	PAH	26	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-111B	ACENAPHTHYLENE	PAH	16	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-111B	FLUORENE	PAH	38	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-111B	NAPHTHALENE	PAH	32	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-211B	1,1-BIPHENYL	PAH	8.3	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-211B	ACENAPHTHYLENE	PAH	22	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-311B	1,1-BIPHENYL	PAH	2.8	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-311B	ACENAPHTHENE	PAH	21	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-311B	ACENAPHTHYLENE	PAH	12	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-311B	DIBENZO(A,H)ANTHRACENE	PAH	36	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-311B	FLUORENE	PAH	26	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M03-311B	NAPHTHALENE	PAH	24	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-111B	1,1-BIPHENYL	PAH	5.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-111B	ACENAPHTHENE	PAH	25	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-111B	ACENAPHTHYLENE	PAH	14	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-111B	NAPHTHALENE	PAH	34	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	1,1-BIPHENYL	PAH	2.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	ACENAPHTHENE	PAH	7.5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	ACENAPHTHYLENE	PAH	10	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	ANTHRACENE	PAH	24	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	DIBENZO(A,H)ANTHRACENE	PAH	27	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	FLUORENE	PAH	14	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-211B	NAPHTHALENE	PAH	17	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-311B	ACENAPHTHENE	PAH	3.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-311B	ACENAPHTHYLENE	PAH	2.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-311B	ANTHRACENE	PAH	22	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-311B	DIBENZO(A,H)ANTHRACENE	PAH	19	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M04-311B	FLUORENE	PAH	5.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	1,1-BIPHENYL	PAH	2.5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	ACENAPHTHYLENE	PAH	8.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	ANTHRACENE	PAH	130	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B	BENZO(A)ANTHRACENE	PAH	410	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B	BENZO(A)PYRENE	PAH	390	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B	BENZO(B)FLUORANTHENE	PAH	480	J	GR	UG/KG	Field Duplicate Imprecision, Surrogates Recovery Noncompliance
OU4-SD-M05-111B	BENZO(G,H,I)PERYLENE	PAH	180	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B	BENZO(K)FLUORANTHENE	PAH	190	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B	CHRYSENE	PAH	420	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B	FLUORANTHENE	PAH	960	J	GR	UG/KG	Field Duplicate Imprecision, Surrogates Recovery Noncompliance
OU4-SD-M05-111B	INDENO(1,2,3-CD)PYRENE	PAH	240	J	CG	UG/KG	Calibration Noncompliance, Field Duplicate Imprecision
OU4-SD-M05-111B	NAPHTHALENE	PAH	8.8	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B	PHENANTHRENE	PAH	700	J	GR	UG/KG	Field Duplicate Imprecision, Surrogates Recovery Noncompliance
OU4-SD-M05-111B	PYRENE	PAH	1000	J	GR	UG/KG	Field Duplicate Imprecision, Surrogates Recovery Noncompliance
OU4-SD-M05-111B-D	1,1-BIPHENYL	PAH	2.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	ACENAPHTHENE	PAH	13	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	ACENAPHTHYLENE	PAH	6.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	ANTHRACENE	PAH	42	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	BENZO(A)ANTHRACENE	PAH	170	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	BENZO(A)PYRENE	PAH	190	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	BENZO(B)FLUORANTHENE	PAH	250	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	BENZO(G,H,I)PERYLENE	PAH	98	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	BENZO(K)FLUORANTHENE	PAH	97	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	CHRYSENE	PAH	200	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	DIBENZO(A,H)ANTHRACENE	PAH	34	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)

Table D-1
Qualified Data Table
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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M05-111B-D	FLUORANTHENE	PAH	350	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	FLUORENE	PAH	19	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	INDENO(1,2,3-CD)PYRENE	PAH	130	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	NAPHTHALENE	PAH	9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-111B-D	PHENANTHRENE	PAH	170	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-111B-D	PYRENE	PAH	460	J	G	UG/KG	Field Duplicate Imprecision
OU4-SD-M05-211B	ACENAPHTHENE	PAH	12	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	ACENAPHTHYLENE	PAH	8.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	ANTHRACENE	PAH	40	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	DIBENZO(A,H)ANTHRACENE	PAH	42	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	FLUORENE	PAH	18	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	NAPHTHALENE	PAH	6.8	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-211B	PERYLENE	PAH	50	J	D	UG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M05-311B	ACENAPHTHENE	PAH	6.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	ACENAPHTHYLENE	PAH	6.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	ANTHRACENE	PAH	17	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	DIBENZO(A,H)ANTHRACENE	PAH	16	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-311B	FLUORENE	PAH	9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-411B	1,1-BIPHENYL	PAH	3.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-411B	ACENAPHTHYLENE	PAH	9.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M05-411B	INDENO(1,2,3-CD)PYRENE	PAH	240	J	C	UG/KG	Calibration Noncompliance
OU4-SD-M05-411B	NAPHTHALENE	PAH	13	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	ACENAPHTHENE	PAH	3	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	ACENAPHTHYLENE	PAH	2.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	ANTHRACENE	PAH	11	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	DIBENZO(A,H)ANTHRACENE	PAH	18	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	FLUORENE	PAH	5.8	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	ACENAPHTHYLENE	PAH	1.9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	ANTHRACENE	PAH	9.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	DIBENZO(A,H)ANTHRACENE	PAH	15	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	ACENAPHTHENE	PAH	9.3	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	ACENAPHTHYLENE	PAH	17	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	ANTHRACENE	PAH	48	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	DIBENZO(A,H)ANTHRACENE	PAH	42	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	FLUORENE	PAH	17	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	NAPHTHALENE	PAH	20	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	ACENAPHTHENE	PAH	6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	ACENAPHTHYLENE	PAH	12	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	ANTHRACENE	PAH	29	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	DIBENZO(A,H)ANTHRACENE	PAH	28	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	FLUORENE	PAH	13	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	NAPHTHALENE	PAH	16	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	ACENAPHTHENE	PAH	2.9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	ACENAPHTHYLENE	PAH	2.8	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	ANTHRACENE	PAH	13	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	DIBENZO(A,H)ANTHRACENE	PAH	13	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	FLUORANTHENE	PAH	150	J	D	UG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-111B	FLUORENE	PAH	4.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	1,1-BIPHENYL	PAH	3.4	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	ACENAPHTHENE	PAH	26	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	ACENAPHTHYLENE	PAH	7.1	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	FLUORENE	PAH	35	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	NAPHTHALENE	PAH	16	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	ANTHRACENE	PAH	5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	BENZO(A)ANTHRACENE	PAH	26	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	BENZO(G,H,I)PERYLENE	PAH	17	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	BENZO(K)FLUORANTHENE	PAH	17	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	DIBENZO(A,H)ANTHRACENE	PAH	5.5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	INDENO(1,2,3-CD)PYRENE	PAH	23	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	PHENANTHRENE	PAH	22	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M09-111B	1,1-BIPHENYL	PAH	34	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	ACENAPHTHENE	PAH	10	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	ACENAPHTHYLENE	PAH	5.8	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	ANTHRACENE	PAH	57	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	BENZO(A)ANTHRACENE	PAH	150	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	BENZO(A)PYRENE	PAH	160	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	BENZO(B)FLUORANTHENE	PAH	240	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	BENZO(G,H,I)PERYLENE	PAH	77	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	BENZO(K)FLUORANTHENE	PAH	88	J	Y	UG/KG	Percent solids <30%

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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M09-111B	CHRYSENE	PAH	200	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	DIBENZO(A,H)ANTHRACENE	PAH	26	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	DIBENZOTHIOPHENE	PAH	34	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	FLUORANTHENE	PAH	350	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	FLUORENE	PAH	17	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-111B	INDENO(1,2,3-CD)PYRENE	PAH	110	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	NAPHTHALENE	PAH	34	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	PERYLENE	PAH	34	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	PHENANTHRENE	PAH	140	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	PYRENE	PAH	440	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	1,1-BIPHENYL	PAH	5.8	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	ACENAPHTHENE	PAH	41	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	ACENAPHTHYLENE	PAH	16	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	ANTHRACENE	PAH	120	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	BENZO(A)ANTHRACENE	PAH	470	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	BENZO(A)PYRENE	PAH	470	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	BENZO(B)FLUORANTHENE	PAH	600	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	BENZO(G,H,I)PERYLENE	PAH	210	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	BENZO(K)FLUORANTHENE	PAH	240	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	CHRYSENE	PAH	480	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	DIBENZO(A,H)ANTHRACENE	PAH	74	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	DIBENZOTHIOPHENE	PAH	28	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	FLUORANTHENE	PAH	860	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	FLUORENE	PAH	53	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	INDENO(1,2,3-CD)PYRENE	PAH	290	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	NAPHTHALENE	PAH	34	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	PERYLENE	PAH	110	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PHENANTHRENE	PAH	460	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PYRENE	PAH	980	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	1,1-BIPHENYL	PAH	5	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	ACENAPHTHENE	PAH	39	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	ACENAPHTHYLENE	PAH	21	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	ANTHRACENE	PAH	100	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	BENZO(A)ANTHRACENE	PAH	450	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	BENZO(A)PYRENE	PAH	450	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	BENZO(B)FLUORANTHENE	PAH	600	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	BENZO(G,H,I)PERYLENE	PAH	230	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	BENZO(K)FLUORANTHENE	PAH	220	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	CHRYSENE	PAH	430	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	DIBENZO(A,H)ANTHRACENE	PAH	76	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	DIBENZOTHIOPHENE	PAH	36	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	FLUORANTHENE	PAH	880	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	FLUORENE	PAH	48	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	INDENO(1,2,3-CD)PYRENE	PAH	300	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	NAPHTHALENE	PAH	35	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-311B	PERYLENE	PAH	100	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	PHENANTHRENE	PAH	430	J	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	PYRENE	PAH	950	J	Y	UG/KG	Percent solids <30%
OU4-SD-M12-111B	1,1-BIPHENYL	PAH	27	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-111B	ACENAPHTHENE	PAH	660	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-111B	FLUORENE	PAH	600	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-111B	INDENO(1,2,3-CD)PYRENE	PAH	1400	J	C	UG/KG	Calibration Noncompliance
OU4-SD-M12-211B	1,1-BIPHENYL	PAH	9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-211B	ACENAPHTHYLENE	PAH	20	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-211B	BENZO(A)ANTHRACENE	PAH	900	J	R	UG/KG	Surrogates Recovery Noncompliance
OU4-SD-M12-211B	BENZO(A)PYRENE	PAH	920	J	R	UG/KG	Surrogates Recovery Noncompliance
OU4-SD-M12-211B	BENZO(B)FLUORANTHENE	PAH	1200	J	CR	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance
OU4-SD-M12-211B	CHRYSENE	PAH	1200	J	R	UG/KG	Surrogates Recovery Noncompliance
OU4-SD-M12-211B	FLUORANTHENE	PAH	2500	J	R	UG/KG	Surrogates Recovery Noncompliance
OU4-SD-M12-211B	PHENANTHRENE	PAH	1600	J	R	UG/KG	Surrogates Recovery Noncompliance
OU4-SD-M12-211B	PYRENE	PAH	2300	J	R	UG/KG	Surrogates Recovery Noncompliance
OU4-SD-M12-311B	1,1-BIPHENYL	PAH	26	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-311B	ANTHRACENE	PAH	800	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M12-311B	BENZO(G,H,I)PERYLENE	PAH	840	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-RB-042011-01	PCB-66	PCB	0.0048	UJ	C	UG/L	Calibration Noncompliance
OU4-SB-042011-01	PCB-66	PCB	0.0048	UJ	C	UG/L	Calibration Noncompliance
OU4-SD-M07-111B	PCB-189	PCB	1.5	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-111B	PCB-77	PCB	1.5	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-111B-D	PCB-189	PCB	0.76	UJ	C	UG/KG	Calibration Noncompliance

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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M07-111B-D	PCB-77	PCB	0.76	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-211B	PCB-118	PCB	1.4	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M07-211B	PCB-153	PCB	1.9	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M07-211B	PCB-170	PCB	0.74	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M07-211B	PCB-180	PCB	1.9	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M07-211B	PCB-189	PCB	1.4	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-211B	PCB-206	PCB	0.83	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M07-211B	PCB-66	PCB	3	J	CRU	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M07-211B	PCB-77	PCB	3.1	J	CR	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance
OU4-SD-M07-311B	PCB-114	PCB	1.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-311B	PCB-118	PCB	0.71	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M07-311B	PCB-153	PCB	1.5	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M07-311B	PCB-170	PCB	0.75	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M07-311B	PCB-180	PCB	1.8	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M07-311B	PCB-189	PCB	1.4	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-311B	PCB-206	PCB	0.34	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M07-311B	PCB-77	PCB	1.4	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-111B	PCB-118	PCB	0.44	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M08-111B	PCB-170	PCB	0.7	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M08-111B	PCB-180	PCB	1.2	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-111B	PCB-189	PCB	0.72	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-111B	PCB-206	PCB	0.36	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-111B	PCB-66	PCB	0.61	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M08-111B	PCB-77	PCB	0.72	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-111B	PCB-81	PCB	0.62	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	PCB-101	PCB	1.6	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M08-211B	PCB-118	PCB	1.8	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M08-211B	PCB-169	PCB	3.2	J	RU	UG/KG	Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-211B	PCB-180	PCB	4.3	J	U	UG/KG	% Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-211B	PCB-187	PCB	1.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	PCB-189	PCB	0.9	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-211B	PCB-206	PCB	2.4	J	U	UG/KG	% Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-211B	PCB-209	PCB	0.72	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M08-211B	PCB-44	PCB	0.46	J	CPR	UG/KG	Calibration Noncompliance, Uncertainty near detection limit Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance
OU4-SD-M08-211B	PCB-52	PCB	0.87	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-211B	PCB-77	PCB	0.9	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-211B	PCB-81	PCB	3.2	J	CR	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance
OU4-SD-M08-311B	PCB-170	PCB	1.2	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M08-311B	PCB-180	PCB	2.3	J	U	UG/KG	% Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-311B	PCB-187	PCB	1.2	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-311B	PCB-189	PCB	0.72	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-311B	PCB-206	PCB	0.21	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-311B	PCB-66	PCB	0.45	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	PCB-77	PCB	0.72	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M09-111B	PCB-101	PCB	3.2	J	PRY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-105	PCB	2.6	J	PRUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-111B	PCB-114	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-118	PCB	4.7	J	RUY	UG/KG	Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC , Percent solids <30%

Table D-1
Qualified Data Table
Round 11- Interim Offshore Monitoring Program
Portsmouth Naval Shipyard, Kittery. Maine

Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M09-111B	PCB-123	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-126	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-128	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-138	PCB	3.3	J	PRY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-153	PCB	4.2	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M09-111B	PCB-156	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-157	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-167	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-169	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-170	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-18	PCB	6.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-180	PCB	3.4	J	RUY	UG/KG	Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC , Percent solids <30%
OU4-SD-M09-111B	PCB-187	PCB	2.9	J	PRUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-111B	PCB-189	PCB	1.7	UJ	CRY	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-195	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-206	PCB	29	J	URY	UG/KG	% Difference between columns/detectors >25% for positive results determined via GC, Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-209	PCB	6.7	J	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-28	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-44	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-52	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-66	PCB	2.8	J	CPRUY	UG/KG	Calibration Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC , Percent solids <30%
OU4-SD-M09-111B	PCB-77	PCB	1.7	UJ	CRY	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-8	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-111B	PCB-81	PCB	1.7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-211B	PCB-101	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-105	PCB	3.5	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-114	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-118	PCB	1.6	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	PCB-123	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-126	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-128	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-138	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-153	PCB	2.6	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M09-211B	PCB-156	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-157	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-167	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-169	PCB	2.1	J	PRY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-211B	PCB-170	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-18	PCB	7.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-180	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-187	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-189	PCB	1.8	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-211B	PCB-195	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-206	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-209	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-28	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-44	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-52	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-66	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-77	PCB	4.2	J	CRY	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-211B	PCB-8	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	PCB-81	PCB	1.8	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	PCB-101	PCB	5	J	RUY	UG/KG	Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC , Percent solids <30%
OU4-SD-M09-311B	PCB-105	PCB	3.5	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-114	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-118	PCB	1.7	J	CPRY	UG/KG	Calibration Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-123	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-126	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-128	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-138	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-153	PCB	3.6	U	A	UG/KG	Lab Blank Contamination
OU4-SD-M09-311B	PCB-156	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%

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Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M09-311B	PCB-157	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-167	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-169	PCB	3.3	J	PRY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-170	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-18	PCB	7	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-180	PCB	3.8	J	RUY	UG/KG	Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC , Percent solids <30%
OU4-SD-M09-311B	PCB-187	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-189	PCB	1.8	UJ	CRY	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-195	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-206	PCB	7.2	J	URY	UG/KG	% Difference between columns/detectors >25% for positive results determined via GC, Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-209	PCB	1.6	J	CPRY	UG/KG	Calibration Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-28	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-44	PCB	0.7	J	PRY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-52	PCB	0.93	J	PRY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-66	PCB	3	J	CPRY	UG/KG	Calibration Noncompliance, Uncertainty near detection limit (>MDL but <LOQ), Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-77	PCB	8.9	J	CRUY	UG/KG	Calibration Noncompliance, Surrogates Recovery Noncompliance, % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-311B	PCB-8	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-SD-M09-311B	PCB-81	PCB	1.8	UJ	RY	UG/KG	Surrogates Recovery Noncompliance, Percent solids <30%
OU4-RB-042011-01	2,4'-DDD	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	2,4'-DDE	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	2,4'-DDT	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	4,4'-DDD	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	4,4'-DDE	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	4,4'-DDT	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	ALDRIN	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	ALPHA-BHC	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	ALPHA-CHLORDANE	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	BETA-BHC	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	CIS-NONACHLOR	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	DELTA-BHC	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	DIELDRIN	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	ENDOSULFAN II	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	ENDRIN	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	GAMMA-BHC (LINDANE)	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	GAMMA-CHLORDANE	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	HEPTACHLOR	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	HEPTACHLOR EPOXIDE	PEST	0.024	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	HEXACHLOROBENZENE	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	MIREX	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	OXYCHLORDANE	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-RB-042011-01	TRANS-NONACHLOR	PEST	0.048	UJ	R	UG/L	Surrogates Recovery Noncompliance
OU4-SD-M07-111B	4,4'-DDD	PEST	2.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	4,4'-DDE	PEST	1.9	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	4,4'-DDT	PEST	3.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B	DELTA-BHC	PEST	1.1	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-111B	ENDRIN	PEST	2.2	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-111B	HEPTACHLOR EPOXIDE	PEST	0.64	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	2,4'-DDT	PEST	0.61	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	4,4'-DDD	PEST	1.5	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	4,4'-DDE	PEST	1.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	4,4'-DDT	PEST	1.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-111B-D	DELTA-BHC	PEST	1.2	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-111B-D	ENDRIN	PEST	2.3	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-111B-D	HEPTACHLOR EPOXIDE	PEST	0.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M07-211B	4,4'-DDD	PEST	2.6	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M07-211B	DELTA-BHC	PEST	2.5	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-211B	ENDRIN	PEST	4.8	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-311B	DELTA-BHC	PEST	2.4	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M07-311B	ENDRIN	PEST	4.6	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-111B	2,4'-DDD	PEST	6	J	D	UG/KG	MS/MSD Recovery Noncompliance
OU4-SD-M08-111B	4,4'-DDE	PEST	2.8	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-111B	4,4'-DDT	PEST	2.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)

Table D-1
Qualified Data Table
Round 11- Interim Offshore Monitoring Program
Portsmouth Naval Shipyard, Kittery. Maine

Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M08-111B	DELTA-BHC	PEST	1.2	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-111B	ENDRIN	PEST	2.4	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-111B	HEPTACHLOR EPOXIDE	PEST	0.7	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-111B	HEXACHLOROBENZENE	PEST	0.6	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-211B	4,4'-DDE	PEST	7	J	U	UG/KG	% Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-211B	DELTA-BHC	PEST	1.6	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-211B	ENDRIN	PEST	3.1	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-211B	HEPTACHLOR EPOXIDE	PEST	1.7	J	PU	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC
OU4-SD-M08-311B	4,4'-DDD	PEST	4.2	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	4,4'-DDE	PEST	0.92	J	P	UG/KG	Uncertainty near detection limit (>MDL but <LOQ)
OU4-SD-M08-311B	DELTA-BHC	PEST	1.2	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M08-311B	ENDRIN	PEST	2.3	UJ	C	UG/KG	Calibration Noncompliance
OU4-SD-M09-111B	2,4'-DDD	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	2,4'-DDE	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	2,4'-DDT	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	4,4'-DDD	PEST	7	J	PUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-111B	4,4'-DDE	PEST	3.9	J	PUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-111B	4,4'-DDT	PEST	4.1	J	PUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-111B	ALDRIN	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	ALPHA-BHC	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	ALPHA-CHLORDANE	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	BETA-BHC	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	CIS-NONACHLOR	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	DELTA-BHC	PEST	2.9	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-111B	DIELDRIN	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	ENDOSULFAN II	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	ENDRIN	PEST	5.6	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-111B	GAMMA-BHC (LINDANE)	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	GAMMA-CHLORDANE	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	HEPTACHLOR	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	HEPTACHLOR EPOXIDE	PEST	2.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	HEXACHLOROBENZENE	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	MIREX	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	OXYCHLORDANE	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-111B	TRANS-NONACHLOR	PEST	5.6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	2,4'-DDD	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	2,4'-DDE	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	2,4'-DDT	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	4,4'-DDD	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	4,4'-DDE	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	4,4'-DDT	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	ALDRIN	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	ALPHA-BHC	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	ALPHA-CHLORDANE	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	BETA-BHC	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	CIS-NONACHLOR	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	DELTA-BHC	PEST	3	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-211B	DIELDRIN	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	ENDOSULFAN II	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	ENDRIN	PEST	5.9	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-211B	GAMMA-BHC (LINDANE)	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	GAMMA-CHLORDANE	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	HEPTACHLOR	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	HEPTACHLOR EPOXIDE	PEST	3	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	HEXACHLOROBENZENE	PEST	2.1	J	PY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), Percent solids <30%
OU4-SD-M09-211B	MIREX	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	OXYCHLORDANE	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-211B	TRANS-NONACHLOR	PEST	5.9	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	2,4'-DDD	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	2,4'-DDE	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	2,4'-DDT	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	4,4'-DDD	PEST	5	J	PUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%
OU4-SD-M09-311B	4,4'-DDE	PEST	3	J	PUY	UG/KG	Uncertainty near detection limit (>MDL but <LOQ), % Difference between columns/detectors >25% for positive results determined via GC, Percent solids <30%

Table D-1
Qualified Data Table
Round 11- Interim Offshore Monitoring Program
Portsmouth Naval Shipyard, Kittery. Maine

Sample Number	Parameter	Analytical Fraction	Sample Result	Data Qualifier	Qualification Code	Units	Reason for Qualification
OU4-SD-M09-311B	4,4'-DDT	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	ALDRIN	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	ALPHA-BHC	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	ALPHA-CHLORDANE	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	BETA-BHC	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	CIS-NONACHLOR	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	DELTA-BHC	PEST	3.1	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-311B	DIELDRIN	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	ENDOSULFAN II	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	ENDRIN	PEST	6	UJ	CY	UG/KG	Calibration Noncompliance, Percent solids <30%
OU4-SD-M09-311B	GAMMA-BHC (LINDANE)	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	GAMMA-CHLORDANE	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	HEPTACHLOR	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	HEPTACHLOR EPOXIDE	PEST	3.1	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	HEXACHLOROBENZENE	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	MIREX	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	OXYCHLORDANE	PEST	6	UJ	Y	UG/KG	Percent solids <30%
OU4-SD-M09-311B	TRANS-NONACHLOR	PEST	6	UJ	Y	UG/KG	Percent solids <30%

Table D-2
Analytical Sensitivity Evaluation Table
Round 11-Interim Offshore Monitoring Program
Portsmouth Naval Shipyard, Kittery, Maine

Parameter	Frequency of Detection	Minimum Non-Detect	Maximum Non-Detect	PSL	Number of Non-Detects Exceeding PSL	Percent of Non-Detects Exceeding PSL	PSL Basis
Dioxins/Furans (ng/kg)							
2,3,4,7,8-PECDF	3/10	0.683	7.38	1	4	40	Bird TEQ
2,3,7,8-TCDF	0/10	0.686	4.81	1	6	60	Bird TEQ
Polycyclic Aromatic Hydrocarbons (ug/kg)							
1,1-BIPHENYL	18/28	12	34	17	4	14.3	SQuiRTS MS T20
PERYLENE	18/28	13	420	74	1	3.6	SQuiRTS MS T20
PCB Congeners (ug/kg)							
PCB-101	3/10	0.72	1.8	1.26	4	40	SQuiRTs MS
PCB-105	1/10	1.4	3.5	3	2	20	Bird TEQ
PCB-126	0/10	0.72	1.8	0.75	8	80	Bird TEQ
PCB-128	0/10	0.72	1.8	1.26	6	60	SQuiRTs MS
PCB-138	1/10	0.72	1.8	1.26	5	50	SQuiRTs MS
PCB-153	0/10	0.72	4.2	1.26	6	60	SQuiRTs MS
PCB-170	0/10	0.7	1.8	1.26	4	40	SQuiRTs MS
PCB-18	0/10	2.9	7.1	1.26	10	100	SQuiRTs MS
PCB-180	7/10	0.76	1.8	1.26	2	20	SQuiRTs MS
PCB-187	3/10	0.72	1.8	1.26	5	50	SQuiRTs MS
PCB-195	0/10	0.72	1.8	1.26	6	60	SQuiRTs MS
PCB-206	7/10	0.76	1.8	1.26	2	20	SQuiRTs MS
PCB-209	3/10	0.72	1.8	1.26	4	40	SQuiRTs MS
PCB-28	0/10	0.72	1.8	1.26	6	60	SQuiRTs MS
PCB-44	2/10	0.72	1.8	1.26	5	50	SQuiRTs MS
PCB-52	2/10	0.72	1.8	1.26	5	50	SQuiRTs MS
PCB-66	6/10	0.76	1.8	1.26	3	30	SQuiRTs MS
PCB-66	6/10	0.76	1.8	1.26	3	30	SQuiRTs MS
PCB-77	3/10	0.72	1.7	1	3	30	Bird TEQ
PCB-8	0/10	0.72	1.8	1.26	6	60	SQuiRTs MS
PCB-81	2/10	0.72	1.8	0.75	7	70	Bird TEQ
Pesticides (ug/kg)							
TRANS-NONACHLOR	0/10	2.2	6	3.99	5	50	OU4 PRG

PSL- Project Screening Level
Bird TEQ: Bird Toxicity Equivalent Quotient screening level of 0.21 µg/kg presented in Table 5-2 of the Rounds 1 Through 10 Interim Offshore Monitoring Program Report for OU4 (Tetra tech, 2010).
SQuiRTs MS: National Oceanic and Atmospheric Administration Screening Quick References Tables Marine Sediment values. AET = Apparent Effects Threshold ; ER-L = Effect Range-Low; T20 = 20-percent effect level. http://response.restoration.noaa.gov/book_shelf/122_NEW-SQuiRTs.pdf.
PRG: Preliminary Remediation Goal (Tetra tech,2001).
PCB- polychlorinated biphenyl
ug/kg- microgram per kilogram
ng/kg-nanogram per kilogram

Table D-3
Comparison of Round 11 Pesticides Data to Previous Rounds.
Round 11- Interim Offshore Monitoring Program
Portsmouth Naval Shipyard, Kittery, Maine

			Non-detected Results			
			Minimum Non-detect		Maximum Non-detect	
			Previous Rounds	Round 11	Previous Rounds	Round 11
CAS Number	Units	Parameter	Minimum Non-detect	Minimum Non-detect	Max Non-detect	Max Non-detect
53-19-0	UG/KG	2,4'-DDD	8	2.2	8	6
3424-82-6	UG/KG	2,4'-DDE	4	2.2	8	6
789-02-6	UG/KG	2,4'-DDT	4	2.2	8	6
72-54-8	UG/KG	4,4'-DDD	8	4.6	8	5.9
72-55-9	UG/KG	4,4'-DDE	4	4.6	8	5.9
50-29-3	UG/KG	4,4'-DDT	0.46	2.3	4	6
309-00-2	UG/KG	ALDRIN	0.04	1.1	4	3.1
319-84-6	UG/KG	ALPHA-BHC	0.077	1.1	4	3.1
5103-71-9	UG/KG	ALPHA-CHLORDANE	2	1.1	4	3.1
319-85-7	UG/KG	BETA-BHC	0.18	1.1	4	3.1
5103-73-1	UG/KG	CIS-NONACHLOR	0.25	2.2	2	6
319-86-8	UG/KG	DELTA-BHC	0.06	1.1	4	3.1
60-57-1	UG/KG	DIELDRIN	0.03	2.2	8	6
33213-65-9	UG/KG	ENDOSULFAN II	0.063	2.2	8	6
72-20-8	UG/KG	ENDRIN	0.065	2.2	8	6
58-89-9	UG/KG	GAMMA-BHC (LINDANE)	0.13	1.1	2	3.1
5103-74-2	UG/KG	GAMMA-CHLORDANE	2	1.1	4	3.1
76-44-8	UG/KG	HEPTACHLOR	0.11	1.1	4	3.1
1024-57-3	UG/KG	HEPTACHLOR EPOXIDE	0.05	1.2	2	3.1
118-74-1	UG/KG	HEXACHLOROBENZENE		2.2		6
2385-85-5	UG/KG	MIREX	0.09	2.2	2	6
26880-48-8	UG/KG	OXYCHLORDANE	0.25	2.2	2	6

ug/kg-microgram per kilogram

location_id	site	aoc	ou	swmu	bldg	sample_id
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-111B-D
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4			OU4-SD-M01-211B

MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-211B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-1 LOC.1	MONITORING STATION-1	MS-01	4	OU4-SD-M01-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B

MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-111B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-211B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B

MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-3 LOC.1	MONITORING STATION-3,32	BACK CHANNEL	4,7	OU4-SD-M03-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-111B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-211B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B

MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-4 LOC.1	MONITORING STATION-4,32	BACK CHANNEL	4,7	OU4-SD-M04-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B

MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-111B-D
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B

MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-211B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B

MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-311B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-5 LOC.1	MONITORING STATION-5	MS-05	4	OU4-SD-M05-411B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-111B-D
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-211B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B

MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B
MS-7 LOC.1	MONITORING STATION-7	MS-07	4	OU4-SD-M07-311B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-111B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-211B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B

MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-8 LOC.1	MONITORING STATION-8	MS-08	4	OU4-SD-M08-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-111B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-211B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B

MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-9 LOC.1	MONITORING STATION-9	MS-09	4	OU4-SD-M09-311B
MS-11 LOC.1	MONITORING STATION-11	DRMO Storage Yard	4	OU4-SD-M11-311B
MS-11 LOC.1	MONITORING STATION-11	DRMO Storage Yard	4	OU4-SD-M11-311B
MS-11 LOC.1	MONITORING STATION-11	DRMO Storage Yard	4	OU4-SD-M11-311B
MS-11 LOC.1	MONITORING STATION-11	DRMO Storage Yard	4	OU4-SD-M11-311B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B

MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-111B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
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MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
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MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-211B
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MS-12 LOC.1	MONITORING STATION-12	MS-12	4	OU4-SD-M12-311B
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20110419	NM	SD	ORIG	ACENAPHTHYLENE	208-96-8	PAH	12
20110419	NM	SD	ORIG	ANTHRACENE	120-12-7	PAH	68
20110419	NM	SD	ORIG	BENZO(A)ANTHRACENE	56-55-3	PAH	290
20110419	NM	SD	ORIG	BENZO(A)PYRENE	50-32-8	PAH	320
20110419	NM	SD	ORIG	BENZO(B)FLUORANTHENE	205-99-2	PAH	380
20110419	NM	SD	ORIG	BENZO(G,H,I)PERYLENE	191-24-2	PAH	190
20110419	NM	SD	ORIG	BENZO(K)FLUORANTHENE	207-08-9	PAH	120
20110419	NM	SD	ORIG	CHRYSENE	218-01-9	PAH	330
20110419	NM	SD	ORIG	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	58
20110419	NM	SD	ORIG	DIBENZOTHIOPHENE	132-65-0	PAH	11
20110419	NM	SD	ORIG	FLUORANTHENE	206-44-0	PAH	510
20110419	NM	SD	ORIG	FLUORENE	86-73-7	PAH	52
20110419	NM	SD	ORIG	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	200
20110419	NM	SD	ORIG	NAPHTHALENE	91-20-3	PAH	57
20110419	NM	SD	ORIG	PERYLENE	198-55-0	PAH	58
20110419	NM	SD	ORIG	PHENANTHRENE	85-01-8	PAH	380
20110419	NM	SD	ORIG	PYRENE	129-00-0	PAH	660
20110419	NM	SD	ORIG	TOTAL SOLIDS	TTNUS046	MISC	85
20110419	FD	SD	DUP	1,1-BIPHENYL	92-52-4	PAH	5.9
20110419	FD	SD	DUP	ACENAPHTHENE	83-32-9	PAH	8.4
20110419	FD	SD	DUP	ACENAPHTHYLENE	208-96-8	PAH	21
20110419	FD	SD	DUP	ANTHRACENE	120-12-7	PAH	32
20110419	FD	SD	DUP	BENZO(A)ANTHRACENE	56-55-3	PAH	200
20110419	FD	SD	DUP	BENZO(A)PYRENE	50-32-8	PAH	290
20110419	FD	SD	DUP	BENZO(B)FLUORANTHENE	205-99-2	PAH	300
20110419	FD	SD	DUP	BENZO(G,H,I)PERYLENE	191-24-2	PAH	190
20110419	FD	SD	DUP	BENZO(K)FLUORANTHENE	207-08-9	PAH	80
20110419	FD	SD	DUP	CHRYSENE	218-01-9	PAH	260
20110419	FD	SD	DUP	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	43
20110419	FD	SD	DUP	DIBENZOTHIOPHENE	132-65-0	PAH	12
20110419	FD	SD	DUP	FLUORANTHENE	206-44-0	PAH	310
20110419	FD	SD	DUP	FLUORENE	86-73-7	PAH	31
20110419	FD	SD	DUP	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	160
20110419	FD	SD	DUP	NAPHTHALENE	91-20-3	PAH	33
20110419	FD	SD	DUP	PERYLENE	198-55-0	PAH	41
20110419	FD	SD	DUP	PHENANTHRENE	85-01-8	PAH	410
20110419	FD	SD	DUP	PYRENE	129-00-0	PAH	950
20110419	FD	SD	DUP	TOTAL SOLIDS	TTNUS046	MISC	79
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	9.5
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	6.7
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	23
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	37
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	310
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	460

20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	460
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	230
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	140
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	380
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	68
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	13
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	360
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	15
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	230
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	50
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	73
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	130
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	690
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	69
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	12
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	83
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	34
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	210
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	970
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	1000
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	1100
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	570
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	350
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	1000
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	150
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	50
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	1700
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	110
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	700
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	87
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	180
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	960
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	2100
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	62
20110418	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	4.9
20110418	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	26
20110418	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	16
20110418	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	76
20110418	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	400
20110418	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	440
20110418	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	640
20110418	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	240
20110418	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	220
20110418	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	490
20110418	NM	SD	NORMAL	COPPER	7440-50-8	M	127
20110418	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	82
20110418	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	19

20110418	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	840
20110418	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	38
20110418	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	330
20110418	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	32
20110418	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	100
20110418	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	390
20110418	NM	SD	NORMAL	PYRENE	129-00-0	PAH	1100
20110418	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	49
20110418	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	8.3
20110418	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	97
20110418	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	22
20110418	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	310
20110418	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	780
20110418	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	870
20110418	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	1100
20110418	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	490
20110418	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	420
20110418	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	970
20110418	NM	SD	NORMAL	COPPER	7440-50-8	M	551
20110418	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	160
20110418	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	61
20110418	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	1900
20110418	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	120
20110418	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	680
20110418	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	66
20110418	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	220
20110418	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	1200
20110418	NM	SD	NORMAL	PYRENE	129-00-0	PAH	2100
20110418	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	57
20110418	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	2.8
20110418	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	21
20110418	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	12
20110418	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	55
20110418	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	200
20110418	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	200
20110418	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	270
20110418	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	99
20110418	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	110
20110418	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	240
20110418	NM	SD	NORMAL	COPPER	7440-50-8	M	23.3
20110418	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	36
20110418	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	20
20110418	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	420
20110418	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	26
20110418	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	130
20110418	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	24
20110418	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	45

20110418	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	200
20110418	NM	SD	NORMAL	PYRENE	129-00-0	PAH	410
20110418	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	45
20110418	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	5.4
20110418	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	25
20110418	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	14
20110418	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	150
20110418	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	340
20110418	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	370
20110418	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	520
20110418	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	170
20110418	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	180
20110418	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	360
20110418	NM	SD	NORMAL	COPPER	7440-50-8	M	331
20110418	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	61
20110418	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	20
20110418	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	620
20110418	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	56
20110418	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	230
20110418	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	34
20110418	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	83
20110418	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	380
20110418	NM	SD	NORMAL	PYRENE	129-00-0	PAH	750
20110418	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	49
20110418	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	2.6
20110418	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	7.5
20110418	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	10
20110418	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	24
20110418	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	140
20110418	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	160
20110418	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	200
20110418	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	75
20110418	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	80
20110418	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	170
20110418	NM	SD	NORMAL	COPPER	7440-50-8	M	36.2
20110418	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	27
20110418	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	22
20110418	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	240
20110418	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	14
20110418	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	99
20110418	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	17
20110418	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	22
20110418	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	120
20110418	NM	SD	NORMAL	PYRENE	129-00-0	PAH	300
20110418	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	45
20110418	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	12
20110418	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	3.6

20110418	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	2.4
20110418	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	22
20110418	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	110
20110418	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	120
20110418	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	170
20110418	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	50
20110418	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	62
20110418	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	120
20110418	NM	SD	NORMAL	COPPER	7440-50-8	M	76.5
20110418	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	19
20110418	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	12
20110418	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	240
20110418	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	5.2
20110418	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	71
20110418	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	12
20110418	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	27
20110418	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	78
20110418	NM	SD	NORMAL	PYRENE	129-00-0	PAH	240
20110418	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	79
20110419	NM	SD	ORIG	1,1-BIPHENYL	92-52-4	PAH	2.5
20110419	NM	SD	ORIG	ACENAPHTHENE	83-32-9	PAH	62
20110419	NM	SD	ORIG	ACENAPHTHYLENE	208-96-8	PAH	8.2
20110419	NM	SD	ORIG	ALUMINUM	7429-90-5	M	14500
20110419	NM	SD	ORIG	ANTHRACENE	120-12-7	PAH	130
20110419	NM	SD	ORIG	ARSENIC	7440-38-2	M	28.4
20110419	NM	SD	ORIG	BENZO(A)ANTHRACENE	56-55-3	PAH	410
20110419	NM	SD	ORIG	BENZO(A)PYRENE	50-32-8	PAH	390
20110419	NM	SD	ORIG	BENZO(B)FLUORANTHENE	205-99-2	PAH	480
20110419	NM	SD	ORIG	BENZO(G,H,I)PERYLENE	191-24-2	PAH	180
20110419	NM	SD	ORIG	BENZO(K)FLUORANTHENE	207-08-9	PAH	190
20110419	NM	SD	ORIG	CADMIUM	7440-43-9	M	0.79
20110419	NM	SD	ORIG	CHROMIUM	7440-47-3	M	55.7
20110419	NM	SD	ORIG	CHRYSENE	218-01-9	PAH	420
20110419	NM	SD	ORIG	COPPER	7440-50-8	M	296
20110419	NM	SD	ORIG	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	60
20110419	NM	SD	ORIG	DIBENZOTHIOPHENE	132-65-0	PAH	42
20110419	NM	SD	ORIG	FLUORANTHENE	206-44-0	PAH	960
20110419	NM	SD	ORIG	FLUORENE	86-73-7	PAH	71
20110419	NM	SD	ORIG	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	240
20110419	NM	SD	ORIG	IRON	7439-89-6	M	27000
20110419	NM	SD	ORIG	LEAD	7439-92-1	M	270
20110419	NM	SD	ORIG	MANGANESE	7439-96-5	M	267
20110419	NM	SD	ORIG	MERCURY	7439-97-6	M	0.74
20110419	NM	SD	ORIG	NAPHTHALENE	91-20-3	PAH	8.8
20110419	NM	SD	ORIG	NICKEL	7440-02-0	M	40.1
20110419	NM	SD	ORIG	PERYLENE	198-55-0	PAH	87
20110419	NM	SD	ORIG	PHENANTHRENE	85-01-8	PAH	700

20110419	NM	SD	ORIG	PYRENE	129-00-0	PAH	1000
20110419	NM	SD	ORIG	SILVER	7440-22-4	M	0.94
20110419	NM	SD	ORIG	TOTAL SOLIDS	TTNUS046	MISC	48
20110419	NM	SD	ORIG	ZINC	7440-66-6	M	304
20110419	FD	SD	DUP	1,1-BIPHENYL	92-52-4	PAH	2.7
20110419	FD	SD	DUP	ACENAPHTHENE	83-32-9	PAH	13
20110419	FD	SD	DUP	ACENAPHTHYLENE	208-96-8	PAH	6.2
20110419	FD	SD	DUP	ALUMINUM	7429-90-5	M	13700
20110419	FD	SD	DUP	ANTHRACENE	120-12-7	PAH	42
20110419	FD	SD	DUP	ARSENIC	7440-38-2	M	26.4
20110419	FD	SD	DUP	BENZO(A)ANTHRACENE	56-55-3	PAH	170
20110419	FD	SD	DUP	BENZO(A)PYRENE	50-32-8	PAH	190
20110419	FD	SD	DUP	BENZO(B)FLUORANTHENE	205-99-2	PAH	250
20110419	FD	SD	DUP	BENZO(G,H,I)PERYLENE	191-24-2	PAH	98
20110419	FD	SD	DUP	BENZO(K)FLUORANTHENE	207-08-9	PAH	97
20110419	FD	SD	DUP	CADMIUM	7440-43-9	M	0.77
20110419	FD	SD	DUP	CHROMIUM	7440-47-3	M	51.6
20110419	FD	SD	DUP	CHRYSENE	218-01-9	PAH	200
20110419	FD	SD	DUP	COPPER	7440-50-8	M	272
20110419	FD	SD	DUP	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	34
20110419	FD	SD	DUP	DIBENZOTHIOPHENE	132-65-0	PAH	18
20110419	FD	SD	DUP	FLUORANTHENE	206-44-0	PAH	350
20110419	FD	SD	DUP	FLUORENE	86-73-7	PAH	19
20110419	FD	SD	DUP	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	130
20110419	FD	SD	DUP	IRON	7439-89-6	M	24400
20110419	FD	SD	DUP	LEAD	7439-92-1	M	250
20110419	FD	SD	DUP	MANGANESE	7439-96-5	M	249
20110419	FD	SD	DUP	MERCURY	7439-97-6	M	0.65
20110419	FD	SD	DUP	NAPHTHALENE	91-20-3	PAH	9
20110419	FD	SD	DUP	NICKEL	7440-02-0	M	37.1
20110419	FD	SD	DUP	PERYLENE	198-55-0	PAH	44
20110419	FD	SD	DUP	PHENANTHRENE	85-01-8	PAH	170
20110419	FD	SD	DUP	PYRENE	129-00-0	PAH	460
20110419	FD	SD	DUP	SILVER	7440-22-4	M	0.89
20110419	FD	SD	DUP	TOTAL SOLIDS	TTNUS046	MISC	54
20110419	FD	SD	DUP	ZINC	7440-66-6	M	282
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	22
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	12
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	8.6
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	14100
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	40
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	16.2
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	200
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	230
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	340
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	130
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	120

20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.32
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	58.2
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	240
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	72.1
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	42
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	22
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	470
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	18
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	170
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	23100
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	78.1
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	248
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.38
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	6.8
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	22.6
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	50
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	210
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	510
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.34
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	40
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	123
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	17
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	6.4
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	6.4
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	10200
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	17
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	8.2
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	100
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	110
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	150
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	47
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	51
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.32
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	40.6
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	120
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	13.1
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	16
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	17
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	170
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	9
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	60
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	15000
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	21.6
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	153
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.1
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	17
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	20.9

20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	17
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	90
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	270
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.26
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	51
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	64.4
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	3.4
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	51
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	9.7
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	13700
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	140
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	13.8
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	390
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	380
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	500
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	190
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	180
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.5
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	52.1
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	400
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	57
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	65
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	24
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	880
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	61
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	240
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	20500
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	57.5
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	219
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.27
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	13
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	20.9
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	82
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	580
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	1100
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.3
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	40
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	111
20110419	NM	SD	ORIG	1,1-BIPHENYL	92-52-4	PAH	14
20110419	NM	SD	ORIG	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	239
20110419	NM	SD	ORIG	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	13.2
20110419	NM	SD	ORIG	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	23.8
20110419	NM	SD	ORIG	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	6.79
20110419	NM	SD	ORIG	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.245
20110419	NM	SD	ORIG	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.358
20110419	NM	SD	ORIG	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.495
20110419	NM	SD	ORIG	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	1.14

20110419	NM	SD	ORIG	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.42
20110419	NM	SD	ORIG	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	0.821
20110419	NM	SD	ORIG	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.211
20110419	NM	SD	ORIG	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.241
20110419	NM	SD	ORIG	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.268
20110419	NM	SD	ORIG	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.651
20110419	NM	SD	ORIG	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.5
20110419	NM	SD	ORIG	2,3,7,8-TCDD	1746-01-6	DIOX	0.167
20110419	NM	SD	ORIG	2,3,7,8-TCDF	51207-31-9	DIOX	0.812
20110419	NM	SD	ORIG	2,4'-DDD	53-19-0	PEST	2.2
20110419	NM	SD	ORIG	2,4'-DDE	3424-82-6	PEST	2.2
20110419	NM	SD	ORIG	2,4'-DDT	789-02-6	PEST	2.2
20110419	NM	SD	ORIG	4,4'-DDD	72-54-8	PEST	2.2
20110419	NM	SD	ORIG	4,4'-DDE	72-55-9	PEST	1.9
20110419	NM	SD	ORIG	4,4'-DDT	50-29-3	PEST	3.2
20110419	NM	SD	ORIG	ACENAPHTHENE	83-32-9	PAH	3
20110419	NM	SD	ORIG	ACENAPHTHYLENE	208-96-8	PAH	2.4
20110419	NM	SD	ORIG	ALDRIN	309-00-2	PEST	1.1
20110419	NM	SD	ORIG	ALPHA-BHC	319-84-6	PEST	1.1
20110419	NM	SD	ORIG	ALPHA-CHLORDANE	5103-71-9	PEST	1.1
20110419	NM	SD	ORIG	ALUMINUM	7429-90-5	M	9530
20110419	NM	SD	ORIG	ANTHRACENE	120-12-7	PAH	11
20110419	NM	SD	ORIG	ARSENIC	7440-38-2	M	8.8
20110419	NM	SD	ORIG	BENZO(A)ANTHRACENE	56-55-3	PAH	70
20110419	NM	SD	ORIG	BENZO(A)PYRENE	50-32-8	PAH	83
20110419	NM	SD	ORIG	BENZO(B)FLUORANTHENE	205-99-2	PAH	120
20110419	NM	SD	ORIG	BENZO(G,H,I)PERYLENE	191-24-2	PAH	57
20110419	NM	SD	ORIG	BENZO(K)FLUORANTHENE	207-08-9	PAH	40
20110419	NM	SD	ORIG	BETA-BHC	319-85-7	PEST	1.1
20110419	NM	SD	ORIG	CADMIUM	7440-43-9	M	0.23
20110419	NM	SD	ORIG	CHROMIUM	7440-47-3	M	31.9
20110419	NM	SD	ORIG	CHRYSENE	218-01-9	PAH	90
20110419	NM	SD	ORIG	CIS-NONACHLOR	5103-73-1	PEST	2.2
20110419	NM	SD	ORIG	COPPER	7440-50-8	M	15.7
20110419	NM	SD	ORIG	DELTA-BHC	319-86-8	PEST	1.1
20110419	NM	SD	ORIG	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	18
20110419	NM	SD	ORIG	DIBENZOTHIOPHENE	132-65-0	PAH	14
20110419	NM	SD	ORIG	DIELDRIN	60-57-1	PEST	2.2
20110419	NM	SD	ORIG	ENDOSULFAN II	33213-65-9	PEST	2.2
20110419	NM	SD	ORIG	ENDRIN	72-20-8	PEST	2.2
20110419	NM	SD	ORIG	FLUORANTHENE	206-44-0	PAH	160
20110419	NM	SD	ORIG	FLUORENE	86-73-7	PAH	5.8
20110419	NM	SD	ORIG	GAMMA-BHC (LINDANE)	58-89-9	PEST	1.1
20110419	NM	SD	ORIG	GAMMA-CHLORDANE	5103-74-2	PEST	1.1
20110419	NM	SD	ORIG	HEPTACHLOR	76-44-8	PEST	1.1
20110419	NM	SD	ORIG	HEPTACHLOR EPOXIDE	1024-57-3	PEST	0.64
20110419	NM	SD	ORIG	HEXACHLOROBENZENE	118-74-1	PEST	2.2

20110419	NM	SD	ORIG	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	70
20110419	NM	SD	ORIG	IRON	7439-89-6	M	15200
20110419	NM	SD	ORIG	LEAD	7439-92-1	M	17.3
20110419	NM	SD	ORIG	MANGANESE	7439-96-5	M	131
20110419	NM	SD	ORIG	MERCURY	7439-97-6	M	0.05
20110419	NM	SD	ORIG	MIREX	2385-85-5	PEST	2.2
20110419	NM	SD	ORIG	NAPHTHALENE	91-20-3	PAH	14
20110419	NM	SD	ORIG	NICKEL	7440-02-0	M	18.8
20110419	NM	SD	ORIG	OXYCHLORDANE	26880-48-8	PEST	2.2
20110419	NM	SD	ORIG	PCB-101	37680-73-2	PCB	1.5
20110419	NM	SD	ORIG	PCB-105	32598-14-4	PCB	3
20110419	NM	SD	ORIG	PCB-114	74472-37-0	PCB	1.5
20110419	NM	SD	ORIG	PCB-118	31508-00-6	PCB	1.5
20110419	NM	SD	ORIG	PCB-123	65510-44-3	PCB	1.5
20110419	NM	SD	ORIG	PCB-126	57465-28-8	PCB	1.5
20110419	NM	SD	ORIG	PCB-128	38380-07-3	PCB	1.5
20110419	NM	SD	ORIG	PCB-138	35065-28-2	PCB	1.5
20110419	NM	SD	ORIG	PCB-153	35065-27-1	PCB	1.5
20110419	NM	SD	ORIG	PCB-156	38380-08-4	PCB	1.5
20110419	NM	SD	ORIG	PCB-157	69782-90-7	PCB	1.5
20110419	NM	SD	ORIG	PCB-167	52663-72-6	PCB	1.5
20110419	NM	SD	ORIG	PCB-169	32774-16-6	PCB	1.5
20110419	NM	SD	ORIG	PCB-170	35065-30-6	PCB	1.5
20110419	NM	SD	ORIG	PCB-18	37680-65-2	PCB	6
20110419	NM	SD	ORIG	PCB-180	35065-29-3	PCB	1.5
20110419	NM	SD	ORIG	PCB-187	52663-68-0	PCB	1.5
20110419	NM	SD	ORIG	PCB-189	39635-31-9	PCB	1.5
20110419	NM	SD	ORIG	PCB-195	52663-78-2	PCB	1.5
20110419	NM	SD	ORIG	PCB-206	40186-72-9	PCB	1.5
20110419	NM	SD	ORIG	PCB-209	2051-24-3	PCB	1.5
20110419	NM	SD	ORIG	PCB-28	7012-37-5	PCB	1.5
20110419	NM	SD	ORIG	PCB-44	41464-39-5	PCB	1.5
20110419	NM	SD	ORIG	PCB-52	35693-99-3	PCB	1.5
20110419	NM	SD	ORIG	PCB-66	32598-10-0	PCB	1.5
20110419	NM	SD	ORIG	PCB-77	32598-13-3	PCB	1.5
20110419	NM	SD	ORIG	PCB-8	34883-43-7	PCB	1.5
20110419	NM	SD	ORIG	PCB-81	70362-50-4	PCB	1.5
20110419	NM	SD	ORIG	PERYLENE	198-55-0	PAH	14
20110419	NM	SD	ORIG	PHENANTHRENE	85-01-8	PAH	73
20110419	NM	SD	ORIG	PYRENE	129-00-0	PAH	230
20110419	NM	SD	ORIG	SILVER	7440-22-4	M	0.16
20110419	NM	SD	ORIG	TOTAL HPCDD	37871-00-4	DIOX	69.5
20110419	NM	SD	ORIG	TOTAL HPCDF	38998-75-3	DIOX	20.5
20110419	NM	SD	ORIG	TOTAL HXCDD	34465-46-8	DIOX	12.9
20110419	NM	SD	ORIG	TOTAL HXCDF	55684-94-1	DIOX	8.02
20110419	NM	SD	ORIG	TOTAL PECDD	36088-22-9	DIOX	2.75
20110419	NM	SD	ORIG	TOTAL PECDF	30402-15-4	DIOX	4.09

20110419	NM	SD	ORIG	TOTAL SOLIDS	TTNUS046	MISC	65
20110419	NM	SD	ORIG	TOTAL TCDD	41903-57-5	DIOX	1.52
20110419	NM	SD	ORIG	TOTAL TCDF	55722-27-5	DIOX	3.34
20110419	NM	SD	ORIG	TRANS-NONACHLOR	39765-80-5	PEST	2.2
20110419	NM	SD	ORIG	ZINC	7440-66-6	M	54.9
20110419	FD	SD	DUP	1,1-BIPHENYL	92-52-4	PAH	14
20110419	FD	SD	DUP	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	266
20110419	FD	SD	DUP	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	14.7
20110419	FD	SD	DUP	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	28.7
20110419	FD	SD	DUP	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	7.79
20110419	FD	SD	DUP	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.513
20110419	FD	SD	DUP	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.315
20110419	FD	SD	DUP	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.632
20110419	FD	SD	DUP	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	1.4
20110419	FD	SD	DUP	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.57
20110419	FD	SD	DUP	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	0.714
20110419	FD	SD	DUP	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.672
20110419	FD	SD	DUP	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.686
20110419	FD	SD	DUP	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.315
20110419	FD	SD	DUP	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.741
20110419	FD	SD	DUP	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.679
20110419	FD	SD	DUP	2,3,7,8-TCDD	1746-01-6	DIOX	0.424
20110419	FD	SD	DUP	2,3,7,8-TCDF	51207-31-9	DIOX	0.869
20110419	FD	SD	DUP	2,4'-DDD	53-19-0	PEST	2.3
20110419	FD	SD	DUP	2,4'-DDE	3424-82-6	PEST	2.3
20110419	FD	SD	DUP	2,4'-DDT	789-02-6	PEST	0.61
20110419	FD	SD	DUP	4,4'-DDD	72-54-8	PEST	1.5
20110419	FD	SD	DUP	4,4'-DDE	72-55-9	PEST	1.6
20110419	FD	SD	DUP	4,4'-DDT	50-29-3	PEST	1.6
20110419	FD	SD	DUP	ACENAPHTHENE	83-32-9	PAH	14
20110419	FD	SD	DUP	ACENAPHTHYLENE	208-96-8	PAH	1.9
20110419	FD	SD	DUP	ALDRIN	309-00-2	PEST	1.2
20110419	FD	SD	DUP	ALPHA-BHC	319-84-6	PEST	1.2
20110419	FD	SD	DUP	ALPHA-CHLORDANE	5103-71-9	PEST	1.2
20110419	FD	SD	DUP	ALUMINUM	7429-90-5	M	8800
20110419	FD	SD	DUP	ANTHRACENE	120-12-7	PAH	9.6
20110419	FD	SD	DUP	ARSENIC	7440-38-2	M	8.1
20110419	FD	SD	DUP	BENZO(A)ANTHRACENE	56-55-3	PAH	61
20110419	FD	SD	DUP	BENZO(A)PYRENE	50-32-8	PAH	74
20110419	FD	SD	DUP	BENZO(B)FLUORANTHENE	205-99-2	PAH	100
20110419	FD	SD	DUP	BENZO(G,H,I)PERYLENE	191-24-2	PAH	48
20110419	FD	SD	DUP	BENZO(K)FLUORANTHENE	207-08-9	PAH	35
20110419	FD	SD	DUP	BETA-BHC	319-85-7	PEST	1.2
20110419	FD	SD	DUP	CADMIUM	7440-43-9	M	0.18
20110419	FD	SD	DUP	CHROMIUM	7440-47-3	M	32.8
20110419	FD	SD	DUP	CHRYSENE	218-01-9	PAH	80
20110419	FD	SD	DUP	CIS-NONACHLOR	5103-73-1	PEST	2.3

20110419	FD	SD	DUP	COPPER	7440-50-8	M	19.8
20110419	FD	SD	DUP	DELTA-BHC	319-86-8	PEST	1.2
20110419	FD	SD	DUP	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	15
20110419	FD	SD	DUP	DIBENZOTHIOPHENE	132-65-0	PAH	14
20110419	FD	SD	DUP	DIELDRIN	60-57-1	PEST	2.3
20110419	FD	SD	DUP	ENDOSULFAN II	33213-65-9	PEST	2.3
20110419	FD	SD	DUP	ENDRIN	72-20-8	PEST	2.3
20110419	FD	SD	DUP	FLUORANTHENE	206-44-0	PAH	140
20110419	FD	SD	DUP	FLUORENE	86-73-7	PAH	14
20110419	FD	SD	DUP	GAMMA-BHC (LINDANE)	58-89-9	PEST	1.2
20110419	FD	SD	DUP	GAMMA-CHLORDANE	5103-74-2	PEST	1.2
20110419	FD	SD	DUP	HEPTACHLOR	76-44-8	PEST	1.2
20110419	FD	SD	DUP	HEPTACHLOR EPOXIDE	1024-57-3	PEST	0.7
20110419	FD	SD	DUP	HEXACHLOROBENZENE	118-74-1	PEST	2.3
20110419	FD	SD	DUP	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	60
20110419	FD	SD	DUP	IRON	7439-89-6	M	13900
20110419	FD	SD	DUP	LEAD	7439-92-1	M	18.2
20110419	FD	SD	DUP	MANGANESE	7439-96-5	M	127
20110419	FD	SD	DUP	MERCURY	7439-97-6	M	0.05
20110419	FD	SD	DUP	MIREX	2385-85-5	PEST	2.3
20110419	FD	SD	DUP	NAPHTHALENE	91-20-3	PAH	14
20110419	FD	SD	DUP	NICKEL	7440-02-0	M	17.9
20110419	FD	SD	DUP	OXYCHLORDANE	26880-48-8	PEST	2.3
20110419	FD	SD	DUP	PCB-101	37680-73-2	PCB	0.76
20110419	FD	SD	DUP	PCB-105	32598-14-4	PCB	1.5
20110419	FD	SD	DUP	PCB-114	74472-37-0	PCB	0.76
20110419	FD	SD	DUP	PCB-118	31508-00-6	PCB	0.76
20110419	FD	SD	DUP	PCB-123	65510-44-3	PCB	0.76
20110419	FD	SD	DUP	PCB-126	57465-28-8	PCB	0.76
20110419	FD	SD	DUP	PCB-128	38380-07-3	PCB	0.76
20110419	FD	SD	DUP	PCB-138	35065-28-2	PCB	0.76
20110419	FD	SD	DUP	PCB-153	35065-27-1	PCB	0.76
20110419	FD	SD	DUP	PCB-156	38380-08-4	PCB	0.76
20110419	FD	SD	DUP	PCB-157	69782-90-7	PCB	0.76
20110419	FD	SD	DUP	PCB-167	52663-72-6	PCB	0.76
20110419	FD	SD	DUP	PCB-169	32774-16-6	PCB	0.76
20110419	FD	SD	DUP	PCB-170	35065-30-6	PCB	0.76
20110419	FD	SD	DUP	PCB-18	37680-65-2	PCB	3
20110419	FD	SD	DUP	PCB-180	35065-29-3	PCB	0.76
20110419	FD	SD	DUP	PCB-187	52663-68-0	PCB	0.76
20110419	FD	SD	DUP	PCB-189	39635-31-9	PCB	0.76
20110419	FD	SD	DUP	PCB-195	52663-78-2	PCB	0.76
20110419	FD	SD	DUP	PCB-206	40186-72-9	PCB	0.76
20110419	FD	SD	DUP	PCB-209	2051-24-3	PCB	0.76
20110419	FD	SD	DUP	PCB-28	7012-37-5	PCB	0.76
20110419	FD	SD	DUP	PCB-44	41464-39-5	PCB	0.76
20110419	FD	SD	DUP	PCB-52	35693-99-3	PCB	0.76

20110419	FD	SD	DUP	PCB-66	32598-10-0	PCB	0.76
20110419	FD	SD	DUP	PCB-77	32598-13-3	PCB	0.76
20110419	FD	SD	DUP	PCB-8	34883-43-7	PCB	0.76
20110419	FD	SD	DUP	PCB-81	70362-50-4	PCB	0.76
20110419	FD	SD	DUP	PERYLENE	198-55-0	PAH	14
20110419	FD	SD	DUP	PHENANTHRENE	85-01-8	PAH	59
20110419	FD	SD	DUP	PYRENE	129-00-0	PAH	210
20110419	FD	SD	DUP	SILVER	7440-22-4	M	0.16
20110419	FD	SD	DUP	TOTAL HPCDD	37871-00-4	DIOX	83.4
20110419	FD	SD	DUP	TOTAL HPCDF	38998-75-3	DIOX	21.4
20110419	FD	SD	DUP	TOTAL HXCDD	34465-46-8	DIOX	13
20110419	FD	SD	DUP	TOTAL HXCDF	55684-94-1	DIOX	7.99
20110419	FD	SD	DUP	TOTAL PECDD	36088-22-9	DIOX	3.14
20110419	FD	SD	DUP	TOTAL PECDF	30402-15-4	DIOX	5.11
20110419	FD	SD	DUP	TOTAL SOLIDS	TTNUS046	MISC	65
20110419	FD	SD	DUP	TOTAL TCDD	41903-57-5	DIOX	1.59
20110419	FD	SD	DUP	TOTAL TCDF	55722-27-5	DIOX	1.9
20110419	FD	SD	DUP	TRANS-NONACHLOR	39765-80-5	PEST	2.3
20110419	FD	SD	DUP	ZINC	7440-66-6	M	57
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	28
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	325
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	27
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	44.6
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	12.7
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.541
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.562
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.88
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	2.14
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.62
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	1.48
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.541
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.425
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.473
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.869
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	1.02
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.311
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	1.3
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	4.8
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	4.8
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	4.8
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	2.6
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	4.8
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	4.8
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	9.3
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	17
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	2.5
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	2.5

20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	2.5
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	14900
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	48
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	13.5
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	230
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	250
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	300
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	110
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	100
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	2.5
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.79
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	72.6
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	240
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	4.8
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	27.7
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	2.5
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	42
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	28
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	4.8
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	4.8
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	4.8
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	340
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	17
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	2.5
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	2.5
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	2.5
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	2.5
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	4.8
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	140
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	23400
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	41.7
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	235
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.28
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	4.8
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	20
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	21
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	4.8
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	1.4
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	2.8
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	1.4
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	1.4
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	1.4
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	1.4
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	1.9
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	1.4

20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	1.4
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	1.4
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	1.4
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	0.74
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	5.6
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	1.9
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	1.4
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	1.4
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	1.4
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	0.83
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	1.4
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	1.4
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	3
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	3.1
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	1.4
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	1.4
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	28
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	140
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	450
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.64
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	120
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	44.3
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	21.1
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	13.9
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	4.41
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	6.84
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	34
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	1.61
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	4.23
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	4.8
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	101
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	25
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	675
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	91.8
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	68.2
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	15.6
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.79
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.586
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.821
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	2.17
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.526
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	1.3
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.618
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.477
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.37

20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.969
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.868
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.29
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	1.42
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	4.6
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	4.6
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	4.6
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	4.6
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	4.6
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	4.6
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	6
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	12
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	2.4
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	2.4
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	2.4
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	14700
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	29
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	12.6
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	150
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	170
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	210
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	81
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	76
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	2.4
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.63
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	57.5
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	160
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	4.6
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	20.1
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	2.4
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	28
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	25
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	4.6
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	4.6
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	4.6
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	240
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	13
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	2.4
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	2.4
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	2.4
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	2.4
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	4.6
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	100
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	20800
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	31.5
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	234
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.16

20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	4.6
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	16
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	19.3
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	4.6
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	1.4
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	2.7
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	1.2
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	0.71
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	1.4
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	1.4
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	1.5
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	1.4
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	1.4
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	1.4
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	1.4
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	0.75
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	5.4
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	1.4
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	1.4
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	1.4
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	0.34
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	1.4
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	1.4
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	1.4
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	1.4
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	1.4
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	1.4
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	25
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	110
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	390
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.57
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	169
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	67.5
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	22.2
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	13.6
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	4.76
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	6.49
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	35
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	3.08
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	5.07
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	4.6
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	84.4

20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	14
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	117
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	7.99
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	15.7
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	5.28
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.519
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.622
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.49
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	0.659
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.503
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	0.669
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.591
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.357
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.517
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.63
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.683
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.415
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	0.864
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	6
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	2.4
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	2.4
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	16
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	2.8
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	2.7
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	2.9
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	2.8
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	1.2
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	1.2
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	1.2
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	8330
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	13
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	13.2
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	63
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	73
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	98
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	42
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	32
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	1.2
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.19
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	28.9
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	81
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	2.4
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	43.4
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	1.2
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	13
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	14
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	2.4

20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	2.4
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	2.4
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	150
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	4.7
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	1.2
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	1.2
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	1.2
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	0.7
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	0.6
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	50
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	15200
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	39.7
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	129
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.09
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	2.4
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	14
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	15.2
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	2.4
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	0.72
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	1.4
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	0.72
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	0.44
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	0.72
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	0.72
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	0.72
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	0.72
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	0.72
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	0.72
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	0.72
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	0.7
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	2.9
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	1.2
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	0.72
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	0.72
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	0.72
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	0.36
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	0.72
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	0.72
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	0.61
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	0.72
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	0.62
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	14

20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	58
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	150
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.18
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	47.6
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	10.8
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	6.39
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	6.59
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	1.25
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	4.45
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	68
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	0.918
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	2.99
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	2.4
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	86.3
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	3.4
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	378
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	30
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	56.9
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	22.3
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	1.52
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	1.04
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	3.32
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	3.11
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	2.76
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	1.68
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.926
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.975
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	1.47
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	3.53
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	3.92
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.231
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	2.41
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	3.1
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	3.1
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	3.1
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	44
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	7
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	16
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	26
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	7.1
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	1.6
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	1.6
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	1.6
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	12700
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	60
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	16.2
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	200

20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	210
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	280
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	99
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	94
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	1.6
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.35
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	52.3
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	220
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	3.1
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	113
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	1.6
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	38
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	18
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	3.1
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	3.1
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	3.1
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	380
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	35
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	1.6
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	1.6
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	1.6
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	1.7
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	3.1
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	120
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	21300
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	102
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	197
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.33
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	3.1
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	16
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	26.9
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	3.1
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	1.6
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	1.8
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	0.9
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	1.8
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	0.9
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	0.9
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	0.9
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	0.9
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	0.9
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	0.9
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	0.9
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	0.9
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	3.2
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	0.9
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	3.6

20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	4.3
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	1.7
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	0.9
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	0.9
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	2.4
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	0.9
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	0.46
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	0.87
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	2.4
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	0.9
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	0.9
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	3.2
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	42
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	240
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	460
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.43
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	157
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	58.9
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	34.4
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	37.6
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	16.1
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	29.8
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	53
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	7.59
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	27.6
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	3.1
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	139
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	13
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	109
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	7.22
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	13.6
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	4.45
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.256
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.21
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.408
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	0.777
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.352
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	0.527
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.204
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.238
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.222
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.674
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.746
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.166
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	0.686
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	2.3

20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	2.3
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	2.3
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	4.2
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	0.92
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	2.3
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	13
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	13
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	1.2
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	1.2
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	1.2
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	7250
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	5
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	14.4
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	26
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	30
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	44
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	17
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	17
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	1.2
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.1
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	22.2
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	34
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	2.3
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	26.4
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	1.2
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	5.5
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	13
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	2.3
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	2.3
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	2.3
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	62
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	13
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	1.2
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	1.2
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	1.2
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	1.2
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	2.3
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	23
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	13800
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	25.4
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	123
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.06
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	2.3
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	13
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	10.1
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	2.3
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	0.72

20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	1.4
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	0.72
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	0.72
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	0.72
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	0.72
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	0.72
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	0.72
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	0.72
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	0.72
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	0.72
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	1.2
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	2.9
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	2.3
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	1.2
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	0.72
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	0.72
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	0.21
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	0.72
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	0.72
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	0.45
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	0.72
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	0.72
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	0.72
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	13
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	22
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	68
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.16
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	37.5
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	12.8
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	8.06
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	7.43
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	2.08
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	4.78
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	69
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	0.881
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	3.12
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	2.3
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	47.7
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	34
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	475
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	34.2
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	62.1
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	20.2

20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	1.56
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	1.08
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	2.94
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	3.43
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	2.18
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	1.81
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.914
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.935
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	1.85
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	3.16
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	3.22
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.791
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	2.94
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	5.6
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	5.6
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	5.6
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	7
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	3.9
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	4.1
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	10
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	5.8
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	2.9
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	2.9
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	2.9
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	18400
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	57
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	18
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	150
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	160
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	240
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	77
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	88
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	2.9
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.53
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	79.6
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	200
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	5.6
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	112
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	2.9
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	26
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	34
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	5.6
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	5.6
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	5.6
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	350
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	17
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	2.9

20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	2.9
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	2.9
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	2.9
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	5.6
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	110
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	28000
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	78.1
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	284
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.28
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	5.6
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	34
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	34
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	5.6
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	3.2
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	2.6
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	1.7
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	4.7
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	1.7
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	1.7
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	1.7
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	3.3
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	4.2
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	1.7
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	1.7
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	1.7
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	1.7
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	1.7
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	6.8
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	3.4
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	2.9
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	1.7
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	1.7
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	29
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	6.7
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	1.7
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	1.7
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	1.7
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	2.8
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	1.7
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	1.7
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	1.7
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	34
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	140
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	440
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.73
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	225
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	59.1

20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	33.6
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	28.9
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	10.4
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	27
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	28
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	3.7
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	26.3
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	5.6
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	149
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	5.8
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	1720
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	106
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	218
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	72.9
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	5.33
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	4.76
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	7.36
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	9.31
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	6.09
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	5.86
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	2.13
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	2.93
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	3.57
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	8.61
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	7.38
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.607
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	4.81
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	5.9
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	5.9
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	5.9
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	5.9
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	5.9
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	5.9
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	41
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	16
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	3
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	3
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	3
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	16800
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	120
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	16.9
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	470
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	470
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	600
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	210
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	240
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	3

20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.85
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	86
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	480
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	5.9
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	93.2
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	3
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	74
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	28
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	5.9
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	5.9
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	5.9
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	860
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	53
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	3
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	3
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	3
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	3
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	2.1
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	290
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	27100
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	133
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	284
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.45
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	5.9
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	34
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	31.8
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	5.9
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	1.8
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	3.5
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	1.8
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	1.6
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	1.8
20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	1.8
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	2.6
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	1.8
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	1.8
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	1.8
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	2.1
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	1.8
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	7.1
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	1.8
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	1.8
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	1.8
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	1.8

20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	1.8
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	1.8
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	1.8
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	4.2
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	1.8
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	1.8
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	110
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	460
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	980
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.52
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	611
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	204
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	119
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	93.8
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	38.9
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	65.7
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	28
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	18.9
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	57.4
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	5.9
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	173
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	5
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	511
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	32.4
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	67.4
20110419	NM	SD	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	22.4
20110419	NM	SD	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	1.32
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	1.22
20110419	NM	SD	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	3.14
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	3.87
20110419	NM	SD	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	2.38
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	2.4
20110419	NM	SD	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	1.02
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.78
20110419	NM	SD	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	2.43
20110419	NM	SD	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	3.48
20110419	NM	SD	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	3.57
20110419	NM	SD	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.679
20110419	NM	SD	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	2.8
20110419	NM	SD	NORMAL	2,4'-DDD	53-19-0	PEST	6
20110419	NM	SD	NORMAL	2,4'-DDE	3424-82-6	PEST	6
20110419	NM	SD	NORMAL	2,4'-DDT	789-02-6	PEST	6
20110419	NM	SD	NORMAL	4,4'-DDD	72-54-8	PEST	5
20110419	NM	SD	NORMAL	4,4'-DDE	72-55-9	PEST	3
20110419	NM	SD	NORMAL	4,4'-DDT	50-29-3	PEST	6

20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	39
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	21
20110419	NM	SD	NORMAL	ALDRIN	309-00-2	PEST	3.1
20110419	NM	SD	NORMAL	ALPHA-BHC	319-84-6	PEST	3.1
20110419	NM	SD	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	3.1
20110419	NM	SD	NORMAL	ALUMINUM	7429-90-5	M	18400
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	100
20110419	NM	SD	NORMAL	ARSENIC	7440-38-2	M	17.8
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	450
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	450
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	600
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	230
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	220
20110419	NM	SD	NORMAL	BETA-BHC	319-85-7	PEST	3.1
20110419	NM	SD	NORMAL	CADMIUM	7440-43-9	M	0.75
20110419	NM	SD	NORMAL	CHROMIUM	7440-47-3	M	88.8
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	430
20110419	NM	SD	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	6
20110419	NM	SD	NORMAL	COPPER	7440-50-8	M	99
20110419	NM	SD	NORMAL	DELTA-BHC	319-86-8	PEST	3.1
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	76
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	36
20110419	NM	SD	NORMAL	DIELDRIN	60-57-1	PEST	6
20110419	NM	SD	NORMAL	ENDOSULFAN II	33213-65-9	PEST	6
20110419	NM	SD	NORMAL	ENDRIN	72-20-8	PEST	6
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	880
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	48
20110419	NM	SD	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	3.1
20110419	NM	SD	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	3.1
20110419	NM	SD	NORMAL	HEPTACHLOR	76-44-8	PEST	3.1
20110419	NM	SD	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	3.1
20110419	NM	SD	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	6
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	300
20110419	NM	SD	NORMAL	IRON	7439-89-6	M	28500
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	93.4
20110419	NM	SD	NORMAL	MANGANESE	7439-96-5	M	301
20110419	NM	SD	NORMAL	MERCURY	7439-97-6	M	0.46
20110419	NM	SD	NORMAL	MIREX	2385-85-5	PEST	6
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	35
20110419	NM	SD	NORMAL	NICKEL	7440-02-0	M	35.1
20110419	NM	SD	NORMAL	OXYCHLORDANE	26880-48-8	PEST	6
20110419	NM	SD	NORMAL	PCB-101	37680-73-2	PCB	5
20110419	NM	SD	NORMAL	PCB-105	32598-14-4	PCB	3.5
20110419	NM	SD	NORMAL	PCB-114	74472-37-0	PCB	1.8
20110419	NM	SD	NORMAL	PCB-118	31508-00-6	PCB	1.7
20110419	NM	SD	NORMAL	PCB-123	65510-44-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-126	57465-28-8	PCB	1.8

20110419	NM	SD	NORMAL	PCB-128	38380-07-3	PCB	1.8
20110419	NM	SD	NORMAL	PCB-138	35065-28-2	PCB	1.8
20110419	NM	SD	NORMAL	PCB-153	35065-27-1	PCB	3.6
20110419	NM	SD	NORMAL	PCB-156	38380-08-4	PCB	1.8
20110419	NM	SD	NORMAL	PCB-157	69782-90-7	PCB	1.8
20110419	NM	SD	NORMAL	PCB-167	52663-72-6	PCB	1.8
20110419	NM	SD	NORMAL	PCB-169	32774-16-6	PCB	3.3
20110419	NM	SD	NORMAL	PCB-170	35065-30-6	PCB	1.8
20110419	NM	SD	NORMAL	PCB-18	37680-65-2	PCB	7
20110419	NM	SD	NORMAL	PCB-180	35065-29-3	PCB	3.8
20110419	NM	SD	NORMAL	PCB-187	52663-68-0	PCB	1.8
20110419	NM	SD	NORMAL	PCB-189	39635-31-9	PCB	1.8
20110419	NM	SD	NORMAL	PCB-195	52663-78-2	PCB	1.8
20110419	NM	SD	NORMAL	PCB-206	40186-72-9	PCB	7.2
20110419	NM	SD	NORMAL	PCB-209	2051-24-3	PCB	1.6
20110419	NM	SD	NORMAL	PCB-28	7012-37-5	PCB	1.8
20110419	NM	SD	NORMAL	PCB-44	41464-39-5	PCB	0.7
20110419	NM	SD	NORMAL	PCB-52	35693-99-3	PCB	0.93
20110419	NM	SD	NORMAL	PCB-66	32598-10-0	PCB	3
20110419	NM	SD	NORMAL	PCB-77	32598-13-3	PCB	8.9
20110419	NM	SD	NORMAL	PCB-8	34883-43-7	PCB	1.8
20110419	NM	SD	NORMAL	PCB-81	70362-50-4	PCB	1.8
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	100
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	430
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	950
20110419	NM	SD	NORMAL	SILVER	7440-22-4	M	0.56
20110419	NM	SD	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	197
20110419	NM	SD	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	62.5
20110419	NM	SD	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	42.2
20110419	NM	SD	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	36.4
20110419	NM	SD	NORMAL	TOTAL PECDD	36088-22-9	DIOX	14.3
20110419	NM	SD	NORMAL	TOTAL PECDF	30402-15-4	DIOX	26.6
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	26
20110419	NM	SD	NORMAL	TOTAL TCDD	41903-57-5	DIOX	5.83
20110419	NM	SD	NORMAL	TOTAL TCDF	55722-27-5	DIOX	33
20110419	NM	SD	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	6
20110419	NM	SD	NORMAL	ZINC	7440-66-6	M	162
20110421	NM	SD	NORMAL	COPPER	7440-50-8	M	88.4
20110421	NM	SD	NORMAL	LEAD	7439-92-1	M	56.5
20110421	NM	SD	NORMAL	NICKEL	7440-02-0	M	34.9
20110421	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	69
20110420	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	27
20110420	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	660
20110420	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	17
20110420	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	860
20110420	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	2400
20110420	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	2300

20110420	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	3000
20110420	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	860
20110420	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	1600
20110420	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	3000
20110420	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	410
20110420	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	280
20110420	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	6800
20110420	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	600
20110420	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	1400
20110420	NM	SD	NORMAL	LEAD	7439-92-1	M	199
20110420	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	220
20110420	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	420
20110420	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	4900
20110420	NM	SD	NORMAL	PYRENE	129-00-0	PAH	6400
20110420	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	56
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	9
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	220
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	20
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	250
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	900
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	920
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	1200
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	350
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	490
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	1200
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	130
20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	100
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	2500
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	190
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	510
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	139
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	71
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	190
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	1600
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	2300
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	32
20110419	NM	SD	NORMAL	1,1-BIPHENYL	92-52-4	PAH	26
20110419	NM	SD	NORMAL	ACENAPHTHENE	83-32-9	PAH	560
20110419	NM	SD	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	23
20110419	NM	SD	NORMAL	ANTHRACENE	120-12-7	PAH	800
20110419	NM	SD	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	2100
20110419	NM	SD	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	2000
20110419	NM	SD	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	2400
20110419	NM	SD	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	840
20110419	NM	SD	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	330
20110419	NM	SD	NORMAL	CHRYSENE	218-01-9	PAH	2700
20110419	NM	SD	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	320

20110419	NM	SD	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	23
20110419	NM	SD	NORMAL	FLUORANTHENE	206-44-0	PAH	5600
20110419	NM	SD	NORMAL	FLUORENE	86-73-7	PAH	600
20110419	NM	SD	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	1300
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	97
20110419	NM	SD	NORMAL	NAPHTHALENE	91-20-3	PAH	220
20110419	NM	SD	NORMAL	PERYLENE	198-55-0	PAH	400
20110419	NM	SD	NORMAL	PHENANTHRENE	85-01-8	PAH	4500
20110419	NM	SD	NORMAL	PYRENE	129-00-0	PAH	5600
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	36
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	344
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	56
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	8730
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	55
20110419	NM	SD	NORMAL	LEAD	7439-92-1	M	346
20110419	NM	SD	NORMAL	TOTAL SOLIDS	TTNUS046	MISC	50
20110420	RB	QC	NORMAL	1,1-BIPHENYL	92-52-4	PAH	0.095
20110420	RB	QC	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	0.00514
20110420	RB	QC	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	0.0044
20110420	RB	QC	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	0.00387
20110420	RB	QC	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	0.00225
20110420	RB	QC	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.00327
20110420	RB	QC	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.00302
20110420	RB	QC	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.00254
20110420	RB	QC	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	0.00323
20110420	RB	QC	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.00234
20110420	RB	QC	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	0.00327
20110420	RB	QC	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.00333
20110420	RB	QC	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.00247
20110420	RB	QC	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.00201
20110420	RB	QC	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.0024
20110420	RB	QC	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.00197
20110420	RB	QC	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.00527
20110420	RB	QC	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	0.00577
20110420	RB	QC	NORMAL	2,4'-DDD	53-19-0	PEST	0.048
20110420	RB	QC	NORMAL	2,4'-DDE	3424-82-6	PEST	0.048
20110420	RB	QC	NORMAL	2,4'-DDT	789-02-6	PEST	0.048
20110420	RB	QC	NORMAL	4,4'-DDD	72-54-8	PEST	0.048
20110420	RB	QC	NORMAL	4,4'-DDE	72-55-9	PEST	0.048
20110420	RB	QC	NORMAL	4,4'-DDT	50-29-3	PEST	0.048
20110420	RB	QC	NORMAL	ACENAPHTHENE	83-32-9	PAH	0.095
20110420	RB	QC	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	0.095
20110420	RB	QC	NORMAL	ALDRIN	309-00-2	PEST	0.024
20110420	RB	QC	NORMAL	ALPHA-BHC	319-84-6	PEST	0.024
20110420	RB	QC	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	0.024
20110420	RB	QC	NORMAL	ALUMINUM	7429-90-5	M	100
20110420	RB	QC	NORMAL	ANTHRACENE	120-12-7	PAH	0.095

20110420	RB	QC	NORMAL	ARSENIC	7440-38-2	M	5
20110420	RB	QC	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	0.095
20110420	RB	QC	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	0.095
20110420	RB	QC	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	0.095
20110420	RB	QC	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	0.095
20110420	RB	QC	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	0.095
20110420	RB	QC	NORMAL	BETA-BHC	319-85-7	PEST	0.024
20110420	RB	QC	NORMAL	CADMIUM	7440-43-9	M	3
20110420	RB	QC	NORMAL	CHROMIUM	7440-47-3	M	4
20110420	RB	QC	NORMAL	CHRYSENE	218-01-9	PAH	0.095
20110420	RB	QC	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	0.048
20110420	RB	QC	NORMAL	COPPER	7440-50-8	M	10
20110420	RB	QC	NORMAL	DELTA-BHC	319-86-8	PEST	0.024
20110420	RB	QC	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	0.095
20110420	RB	QC	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	0.095
20110420	RB	QC	NORMAL	DIELDRIN	60-57-1	PEST	0.048
20110420	RB	QC	NORMAL	ENDOSULFAN II	33213-65-9	PEST	0.048
20110420	RB	QC	NORMAL	ENDRIN	72-20-8	PEST	0.048
20110420	RB	QC	NORMAL	FLUORANTHENE	206-44-0	PAH	0.095
20110420	RB	QC	NORMAL	FLUORENE	86-73-7	PAH	0.095
20110420	RB	QC	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	0.024
20110420	RB	QC	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	0.024
20110420	RB	QC	NORMAL	HEPTACHLOR	76-44-8	PEST	0.024
20110420	RB	QC	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	0.024
20110420	RB	QC	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	0.048
20110420	RB	QC	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	0.095
20110420	RB	QC	NORMAL	IRON	7439-89-6	M	80
20110420	RB	QC	NORMAL	LEAD	7439-92-1	M	4
20110420	RB	QC	NORMAL	MANGANESE	7439-96-5	M	4
20110420	RB	QC	NORMAL	MERCURY	7439-97-6	M	0.1
20110420	RB	QC	NORMAL	MIREX	2385-85-5	PEST	0.048
20110420	RB	QC	NORMAL	NAPHTHALENE	91-20-3	PAH	0.095
20110420	RB	QC	NORMAL	NICKEL	7440-02-0	M	4
20110420	RB	QC	NORMAL	OXYCHLORDANE	26880-48-8	PEST	0.048
20110420	RB	QC	NORMAL	PCB-101	37680-73-2	PCB	0.0086
20110420	RB	QC	NORMAL	PCB-105	32598-14-4	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-114	74472-37-0	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-118	31508-00-6	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-123	65510-44-3	PCB	0.014
20110420	RB	QC	NORMAL	PCB-126	57465-28-8	PCB	0.048
20110420	RB	QC	NORMAL	PCB-128	38380-07-3	PCB	0.0076
20110420	RB	QC	NORMAL	PCB-138	35065-28-2	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-153	35065-27-1	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-156	38380-08-4	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-157	69782-90-7	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-167	52663-72-6	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-169	32774-16-6	PCB	0.0048

20110420	RB	QC	NORMAL	PCB-170	35065-30-6	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-18	37680-65-2	PCB	0.048
20110420	RB	QC	NORMAL	PCB-180	35065-29-3	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-187	52663-68-0	PCB	0.0076
20110420	RB	QC	NORMAL	PCB-189	39635-31-9	PCB	0.048
20110420	RB	QC	NORMAL	PCB-195	52663-78-2	PCB	0.048
20110420	RB	QC	NORMAL	PCB-206	40186-72-9	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-209	2051-24-3	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-28	7012-37-5	PCB	0.048
20110420	RB	QC	NORMAL	PCB-44	41464-39-5	PCB	0.0076
20110420	RB	QC	NORMAL	PCB-52	35693-99-3	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-66	32598-10-0	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-77	32598-13-3	PCB	0.0048
20110420	RB	QC	NORMAL	PCB-8	34883-43-7	PCB	0.048
20110420	RB	QC	NORMAL	PCB-81	70362-50-4	PCB	0.0048
20110420	RB	QC	NORMAL	PERYLENE	198-55-0	PAH	0.095
20110420	RB	QC	NORMAL	PHENANTHRENE	85-01-8	PAH	0.095
20110420	RB	QC	NORMAL	PYRENE	129-00-0	PAH	0.095
20110420	RB	QC	NORMAL	SILVER	7440-22-4	M	4
20110420	RB	QC	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	0.00387
20110420	RB	QC	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	0.00327
20110420	RB	QC	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	0.00327
20110420	RB	QC	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	0.00333
20110420	RB	QC	NORMAL	TOTAL PECDD	36088-22-9	DIOX	0.00247
20110420	RB	QC	NORMAL	TOTAL PECDF	30402-15-4	DIOX	0.00201
20110420	RB	QC	NORMAL	TOTAL TCDD	41903-57-5	DIOX	0.00527
20110420	RB	QC	NORMAL	TOTAL TCDF	55722-27-5	DIOX	0.00577
20110420	RB	QC	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	0.048
20110420	RB	QC	NORMAL	ZINC	7440-66-6	M	10
20110420	SB	QC	NORMAL	1,1-BIPHENYL	92-52-4	PAH	0.097
20110420	SB	QC	NORMAL	1,2,3,4,6,7,8,9-OCDD	3268-87-9	DIOX	0.00458
20110420	SB	QC	NORMAL	1,2,3,4,6,7,8,9-OCDF	39001-02-0	DIOX	0.00531
20110420	SB	QC	NORMAL	1,2,3,4,6,7,8-HPCDD	35822-46-9	DIOX	0.0035
20110420	SB	QC	NORMAL	1,2,3,4,6,7,8-HPCDF	67562-39-4	DIOX	0.00226
20110420	SB	QC	NORMAL	1,2,3,4,7,8,9-HPCDF	55673-89-7	DIOX	0.00332
20110420	SB	QC	NORMAL	1,2,3,4,7,8-HXCDD	39227-28-6	DIOX	0.00261
20110420	SB	QC	NORMAL	1,2,3,4,7,8-HXCDF	70648-26-9	DIOX	0.00209
20110420	SB	QC	NORMAL	1,2,3,6,7,8-HXCDD	57653-85-7	DIOX	0.00289
20110420	SB	QC	NORMAL	1,2,3,6,7,8-HXCDF	57117-44-9	DIOX	0.002
20110420	SB	QC	NORMAL	1,2,3,7,8,9-HXCDD	19408-74-3	DIOX	0.00287
20110420	SB	QC	NORMAL	1,2,3,7,8,9-HXCDF	72918-21-9	DIOX	0.00286
20110420	SB	QC	NORMAL	1,2,3,7,8-PECDD	40321-76-4	DIOX	0.00244
20110420	SB	QC	NORMAL	1,2,3,7,8-PECDF	57117-41-6	DIOX	0.00208
20110420	SB	QC	NORMAL	2,3,4,6,7,8-HXCDF	60851-34-5	DIOX	0.0021
20110420	SB	QC	NORMAL	2,3,4,7,8-PECDF	57117-31-4	DIOX	0.00196
20110420	SB	QC	NORMAL	2,3,7,8-TCDD	1746-01-6	DIOX	0.00414
20110420	SB	QC	NORMAL	2,3,7,8-TCDF	51207-31-9	DIOX	0.00455

20110420	SB	QC	NORMAL	2,4'-DDD	53-19-0	PEST	0.054
20110420	SB	QC	NORMAL	2,4'-DDE	3424-82-6	PEST	0.054
20110420	SB	QC	NORMAL	2,4'-DDT	789-02-6	PEST	0.054
20110420	SB	QC	NORMAL	4,4'-DDD	72-54-8	PEST	0.054
20110420	SB	QC	NORMAL	4,4'-DDE	72-55-9	PEST	0.054
20110420	SB	QC	NORMAL	4,4'-DDT	50-29-3	PEST	0.054
20110420	SB	QC	NORMAL	ACENAPHTHENE	83-32-9	PAH	0.097
20110420	SB	QC	NORMAL	ACENAPHTHYLENE	208-96-8	PAH	0.097
20110420	SB	QC	NORMAL	ALDRIN	309-00-2	PEST	0.027
20110420	SB	QC	NORMAL	ALPHA-BHC	319-84-6	PEST	0.027
20110420	SB	QC	NORMAL	ALPHA-CHLORDANE	5103-71-9	PEST	0.027
20110420	SB	QC	NORMAL	ALUMINUM	7429-90-5	M	100
20110420	SB	QC	NORMAL	ANTHRACENE	120-12-7	PAH	0.097
20110420	SB	QC	NORMAL	ARSENIC	7440-38-2	M	5
20110420	SB	QC	NORMAL	BENZO(A)ANTHRACENE	56-55-3	PAH	0.097
20110420	SB	QC	NORMAL	BENZO(A)PYRENE	50-32-8	PAH	0.097
20110420	SB	QC	NORMAL	BENZO(B)FLUORANTHENE	205-99-2	PAH	0.097
20110420	SB	QC	NORMAL	BENZO(G,H,I)PERYLENE	191-24-2	PAH	0.097
20110420	SB	QC	NORMAL	BENZO(K)FLUORANTHENE	207-08-9	PAH	0.097
20110420	SB	QC	NORMAL	BETA-BHC	319-85-7	PEST	0.027
20110420	SB	QC	NORMAL	CADMIUM	7440-43-9	M	3
20110420	SB	QC	NORMAL	CHROMIUM	7440-47-3	M	4
20110420	SB	QC	NORMAL	CHRYSENE	218-01-9	PAH	0.097
20110420	SB	QC	NORMAL	CIS-NONACHLOR	5103-73-1	PEST	0.054
20110420	SB	QC	NORMAL	COPPER	7440-50-8	M	0.67
20110420	SB	QC	NORMAL	DELTA-BHC	319-86-8	PEST	0.027
20110420	SB	QC	NORMAL	DIBENZO(A,H)ANTHRACENE	53-70-3	PAH	0.097
20110420	SB	QC	NORMAL	DIBENZOTHIOPHENE	132-65-0	PAH	0.097
20110420	SB	QC	NORMAL	DIELDRIN	60-57-1	PEST	0.054
20110420	SB	QC	NORMAL	ENDOSULFAN II	33213-65-9	PEST	0.054
20110420	SB	QC	NORMAL	ENDRIN	72-20-8	PEST	0.054
20110420	SB	QC	NORMAL	FLUORANTHENE	206-44-0	PAH	0.097
20110420	SB	QC	NORMAL	FLUORENE	86-73-7	PAH	0.097
20110420	SB	QC	NORMAL	GAMMA-BHC (LINDANE)	58-89-9	PEST	0.027
20110420	SB	QC	NORMAL	GAMMA-CHLORDANE	5103-74-2	PEST	0.027
20110420	SB	QC	NORMAL	HEPTACHLOR	76-44-8	PEST	0.027
20110420	SB	QC	NORMAL	HEPTACHLOR EPOXIDE	1024-57-3	PEST	0.027
20110420	SB	QC	NORMAL	HEXACHLOROBENZENE	118-74-1	PEST	0.054
20110420	SB	QC	NORMAL	INDENO(1,2,3-CD)PYRENE	193-39-5	PAH	0.097
20110420	SB	QC	NORMAL	IRON	7439-89-6	M	80
20110420	SB	QC	NORMAL	LEAD	7439-92-1	M	4
20110420	SB	QC	NORMAL	MANGANESE	7439-96-5	M	4
20110420	SB	QC	NORMAL	MERCURY	7439-97-6	M	0.1
20110420	SB	QC	NORMAL	MIREX	2385-85-5	PEST	0.054
20110420	SB	QC	NORMAL	NAPHTHALENE	91-20-3	PAH	0.097
20110420	SB	QC	NORMAL	NICKEL	7440-02-0	M	4
20110420	SB	QC	NORMAL	OXYCHLORDANE	26880-48-8	PEST	0.054

20110420	SB	QC	NORMAL	PCB-101	37680-73-2	PCB	0.0086
20110420	SB	QC	NORMAL	PCB-105	32598-14-4	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-114	74472-37-0	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-118	31508-00-6	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-123	65510-44-3	PCB	0.014
20110420	SB	QC	NORMAL	PCB-126	57465-28-8	PCB	0.048
20110420	SB	QC	NORMAL	PCB-128	38380-07-3	PCB	0.0076
20110420	SB	QC	NORMAL	PCB-138	35065-28-2	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-153	35065-27-1	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-156	38380-08-4	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-157	69782-90-7	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-167	52663-72-6	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-169	32774-16-6	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-170	35065-30-6	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-18	37680-65-2	PCB	0.048
20110420	SB	QC	NORMAL	PCB-180	35065-29-3	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-187	52663-68-0	PCB	0.0076
20110420	SB	QC	NORMAL	PCB-189	39635-31-9	PCB	0.048
20110420	SB	QC	NORMAL	PCB-195	52663-78-2	PCB	0.048
20110420	SB	QC	NORMAL	PCB-206	40186-72-9	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-209	2051-24-3	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-28	7012-37-5	PCB	0.048
20110420	SB	QC	NORMAL	PCB-44	41464-39-5	PCB	0.0076
20110420	SB	QC	NORMAL	PCB-52	35693-99-3	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-66	32598-10-0	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-77	32598-13-3	PCB	0.0048
20110420	SB	QC	NORMAL	PCB-8	34883-43-7	PCB	0.048
20110420	SB	QC	NORMAL	PCB-81	70362-50-4	PCB	0.0048
20110420	SB	QC	NORMAL	PERYLENE	198-55-0	PAH	0.097
20110420	SB	QC	NORMAL	PHENANTHRENE	85-01-8	PAH	0.097
20110420	SB	QC	NORMAL	PYRENE	129-00-0	PAH	0.097
20110420	SB	QC	NORMAL	SILVER	7440-22-4	M	4
20110420	SB	QC	NORMAL	TOTAL HPCDD	37871-00-4	DIOX	0.0035
20110420	SB	QC	NORMAL	TOTAL HPCDF	38998-75-3	DIOX	0.00332
20110420	SB	QC	NORMAL	TOTAL HXCDD	34465-46-8	DIOX	0.00289
20110420	SB	QC	NORMAL	TOTAL HXCDF	55684-94-1	DIOX	0.00286
20110420	SB	QC	NORMAL	TOTAL PECDD	36088-22-9	DIOX	0.00244
20110420	SB	QC	NORMAL	TOTAL PECDF	30402-15-4	DIOX	0.00208
20110420	SB	QC	NORMAL	TOTAL TCDD	41903-57-5	DIOX	0.00414
20110420	SB	QC	NORMAL	TOTAL TCDF	55722-27-5	DIOX	0.00455
20110420	SB	QC	NORMAL	TRANS-NONACHLOR	39765-80-5	PEST	0.054
20110420	SB	QC	NORMAL	ZINC	7440-66-6	M	10

val_qual	qual_code	units	detect	sdg	phase	source	location_status	depth_status
J	P	UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1		TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1		TTNPT	ACTIVE	NORMAL

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		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	GR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	GR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CG	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	GR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

J	GR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	G	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	C	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CRU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PW	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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J	RU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

J	U	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	U	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PU	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KP	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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		NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	W	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PWY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KPY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	DY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	DY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	RUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	RUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CRY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	URY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	RY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPRUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CRY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KPY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	DY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PWY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PWY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

J	KPY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KPY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PWY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	QY	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
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UJ	Y	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	NG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	KPY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	RUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL

UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
U	A	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	RUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	CRY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	URY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	PRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CPRY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CRUY	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	RY	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	KPY	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	WY	NG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	Y	UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	Y	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	D	MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	C	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	R	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	R	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	CR	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	R	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	R	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	R	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	R	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
J	P	UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL

U		UG/KG	N	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		UG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		MG/KG	Y	WE29-1	TTNPT	ACTIVE	NORMAL
		%	Y	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	E	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		NG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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UJ	R	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	R	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL

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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	R	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	C	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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UJ	R	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	E	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		NG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL

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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
UJ	E	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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UJ	C	UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
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U		NG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		NG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL
U		UG/L	N	WE29-1	TTNPT	ACTIVE	NORMAL

top_depth	bottom_depth	anal_method	ground_surface	result_note
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0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
0	0.5	8270C-SIM	-9999	
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-9999	-9999	6010C	-9999

location_id	easting	northing	coordinate_system	location_type
MS-1 LOC.1	2799698.533	92139.9376	NAD 1983 SPCS Maine West (Feet)	MS
MS-11 LOC.1	2800720.885	88473.4811	NAD 1983 SPCS Maine West (Feet)	ETSD
MS-12 LOC.1	2799525.049	90251.3669	NAD 1983 SPCS Maine West (Feet)	MS
MS-3 LOC.1	2801940.515	91428.5841	NAD 1983 SPCS Maine West (Feet)	ETSD
MS-4 LOC.1	2802650.407	91310.7981	NAD 1983 SPCS Maine West (Feet)	ETSD
MS-5 LOC.1	2803137.805	91085.2088	NAD 1983 SPCS Maine West (Feet)	MS
MS-7 LOC.1	2803976.907	90306.9297	NAD 1983 SPCS Maine West (Feet)	MS
MS-8 LOC.1	2803284.318	90220.4173	NAD 1983 SPCS Maine West (Feet)	MS
MS-9 LOC.1	2802916.229	89913.0125	NAD 1983 SPCS Maine West (Feet)	MS
QC	-9999	-9999	UNKNOWN	UNK

location_status	site	aoc	ou	swmu	bldg
ACTIVE	MONITORING STATION-1	MS-01	4		
ACTIVE	MONITORING STATION-11	DRMO Storage Yard	4		
ACTIVE	MONITORING STATION-12	MS-12	4		
ACTIVE	MONITORING STATION-3,32	BACK CHANNEL	4,7		
ACTIVE	MONITORING STATION-4,32	BACK CHANNEL	4,7		
ACTIVE	MONITORING STATION-5	MS-05	4		
ACTIVE	MONITORING STATION-7	MS-07	4		
ACTIVE	MONITORING STATION-8	MS-08	4		
ACTIVE	MONITORING STATION-9	MS-09	4		
ACTIVE					

area	ground_surface	vertical_datum	survey_date
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MONITORING STATIONS	-9999	UNKNOWN	19000101
MONITORING STATIONS	-9999	UNKNOWN	19000101
MONITORING STATIONS	-9999	UNKNOWN	19000101
	-9999	UNKNOWN	19000101

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **D. WITT** **DATE:** **JULY 13, 2011**

FROM: **JOSEPH KALINYAK** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – PAH / PEST / PCB CONGENERS / PCDD/PCDF**
PORTSMOUTH, CTO WE29
SDG WE29-1

SAMPLES: 27 / Sediment / PAH

OU4-FD-041911-01	OU4-FD-041911-02	OU4-SD-M01-111B
OU4-SD-M01-211B	OU4-SD-M01-311B	OU4-SD-M03-111B
OU4-SD-M03-211B	OU4-SD-M03-311B	OU4-SD-M04-111B
OU4-SD-M04-211B	OU4-SD-M04-311B	OU4-SD-M05-111B
OU4-SD-M05-211B	OU4-SD-M05-311B	OU4-SD-M05-411B
OU4-SD-M07-111B	OU4-SD-M07-211B	OU4-SD-M07-311B
OU4-SD-M08-111B	OU4-SD-M08-211B	OU4-SD-M08-311B
OU4-SD-M09-111B	OU4-SD-M09-211B	OU4-SD-M09-311B
OU4-SD-M12-111B	OU4-SD-M12-211B	OU4-SD-M12-311B

2 / Aqueous / PAH / PEST / PCB Congener / PCDD/PCDF

OU4-RB-042011-01	OU4-SB-042011-01

10 / Sediment / PEST / PCB Congener / PCDD/PCDF

OU4-SD-FD-041911-03	OU4-SD-M07-111B	OU4-SD-M07-211B
OU4-SD-M07-311B	OU4-SD-M08-111B	OU4-SD-M08-211B
OU4-SD-M08-311B	OU4-SD-M09-111B	OU4-SD-M09-211B
OU4-SD-M09-311B		

OVERVIEW

The sample set for Portsmouth, CTO WE29, SDG WE29-1 consisted of twenty-eight (28) sediment environmental samples and two (2) aqueous QC blank samples. The samples were analyzed as listed above for polynuclear aromatic hydrocarbons (PAH), chlorinated pesticides (PEST), polychlorinated biphenyl (PCB) congeners, and polychlorinated dibenzodioxins & polychlorinated dibenzofurans (PCDD/PCDF) as listed above. Three field duplicate sample pairs were included in this sample delivery group (SDG); OU4-FD-041911-01 / OU4-SD-M01-111B, OU4-FD-041911-02 / OU4-SD-M05-111B, and OU4-SD-FD-041911-03 / OU4-SD-M07-111B.

The samples were collected by Tetra Tech on April 18, 19, and 20, 2011 and analyzed by Katahdin Analytical Services, Inc. for PAHs and PESTs. The PCDD/PCDF analysis was sub-contracted by Katahdin to SGS North America Inc. All analyses were conducted in accordance with EPA SW-846 Methods 8270C SIM, 8081, 8082, and EPA Method 1613B analytical and reporting protocols.

The data was evaluated based on the following parameters:

- Data Completeness
- Holding Times

* • GC/MS Instrument Tuning and System Performance
* • HRGC/HRMS Tuning and System Performance
* • Chromatographic Resolution (Window Defining Mix)
• Initial and Continuing Calibration
• Blank Results
• Blank Spike/Blank Spike Duplicate Results
• Surrogate Spike Recoveries
* • Internal Standard Recoveries
• Matrix Spike/Matrix Spike Duplicate Recoveries
• Field Duplicate Precision
• Compound Identification
• Compound Quantification
* • Detection Limits

The asterisk (*) indicates that all quality control criteria were met for this parameter. Qualified (if applicable) analytical results are summarized in Appendix A. Results as reported by the laboratory are presented in Appendix B. Appendix C contains Region I worksheets, and Appendix D contains the documentation to support the findings as discussed in this data validation report. The text of this report has been formulated to address only those problem areas affecting data quality.

HOLD TIME

No issues were identified.

BLANKS

The following PCB congeners were detected in the laboratory method blank for batch WG90791 at the following maximum concentration affecting all the sediment samples.

Analyte	Maximum Conc. µg/kg	Action Level µg/kg
PCB-153	0.12	0.60
PCB-170	0.19	0.95

An action level of five times the maximum level for the laboratory contaminants has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Samples were qualified non-detected, (U), for method blank contamination.

The following PCDD/PCDF laboratory contaminants were detected in the laboratory method blank 19548 at the following maximum concentrations affecting all sediment samples.

Analyte	Maximum Conc. ng/kg	Action Level ng/kg
1,2,3,4,6,7,8-HpCDD	0.424	2.12
OCDD	1.09	5.45
1,2,3,7,8-PeCDF	0.396	1.98
2,3,4,7,8-PeCDF	0.410	2.05
1,2,3,4,7,8-HxCDF	0.358	1.79
1,2,3,4,6,7,8-HpCDF	0.462	2.31
Total TCDF	0.544	2.72
Total PeCDF	0.806	4.03
Total HxCDF	0.358	1.79

Total HpCDD	0.424	2.12
Total HpCDF	0.462	2.31
1,2,3,7,8,9-HxCDD (1)	0.348	1.74
1,2,3,6,7,8-HxCDF (1)	0.410	2.05
2,3,4,6,7,8-HxCDF (1)	0.354	1.77
1,2,3,7,8,9-HxCDF (1)	0.548	2.74
OCDF (1)	0.930	4.65
Total TCDF (1)	0.726	3.63
Total HxCDD (1)	0.348	1.74
Total HxCDF (1)	1.67	8.35
2,3,7,8-TCDF (2)	0.442	2.210

(1) EMPC results. EMPC method blank results used only to qualify analyte EMPC sample results.

(2) 2,3,7,8-TCDF confirmation column method blank results affecting all sediment samples.

An action level of five times the maximum level for the laboratory contaminants has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Samples were qualified non-detected, (U), for method blank contamination.

PCDD/PCDF contamination was detected in the laboratory method blank 19553 affecting the aqueous samples OU4-RB-042011-01 and OU4-SB-042011-01. No action was taken as the affected samples had non-detected results for all PCDD and PCDF analytes.

CALIBRATIONS

The PAH continuing calibration verification (CCV) percent difference (%D) was greater than the 20% quality control limit for benzo(b)fluoranthene (21.03%) on 04/27/11 @ 08:17 on instrument GCMS-G. As only a method blank and laboratory control sample (LCS), and LCS duplicate (LCSD) samples were affected, no validation action was necessary.

The PAH CCV %D was greater than the 20% quality control limit for benzo(k)fluoranthene (22.22%) on 05/02/11 @ 11:35 on instrument GCMS-G. As only a method blanks and LCS and LCSD samples were affected, no validation action was necessary.

The PAH CCV %D was greater than the 20% quality control limit for indeno(1,2,3-cd)pyrene (25.15%) on 05/06/11 @ 08:07 on instrument GCMS-G affecting samples OU4-SD-M05-111B, OU4-SD-M05-411B, OU4-SD-M01-311B dilution analysis, OU4-SD-M12-111B dilution analysis. The indeno(1,2,3-cd)pyrene results for the aforementioned samples were qualified estimated, (J). Other sample dilution analyses were affected but were not qualified as the indeno(1,2,3-cd) results were reported from the undiluted sample analyses.

The PAH CCV %D was greater than the 20% quality control limit for indeno(1,2,3-cd)pyrene (33.67%) and benzo(b)fluoranthene (20.69%) on 05/09/11 @ 14:48 on instrument GCMS-G affecting sample OU4-SD-M12-211B dilution analysis. The indeno(1,2,3-cd) result was not qualified as it was reported from the undiluted sample analysis. The benzo(b)fluoranthene result was qualified estimated, (J).

The PEST CCV %Ds were greater than the 15% quality control limit for instrument GC01 on 05/04/11 @ 15:24 for analytical columns as listed below.

Analyte	ZB-MULTIRESIDUE-1	ZB-MULTIRESIDUE-2
Endosulfan sulfate	------	15.40
Endrin ketone	15.80	------

Affecting samples: None.
Action: No action was taken as only LCS, LCSD, method blanks, and an MS/MSD sample were affected.

The PEST CCV %Ds were greater than the 15% quality control limit for instrument GC01 on 05/04/11 @ 20:49 for analytical columns as listed below.

Analyte	ZB-MULTIRESIDUE-1	ZB-MULTIRESIDUE-2
alpha-BHC	16.80	------
gamma-BHC	15.60	------
beta-BHC	15.60	------
delta-BHC	20.40	------

Affecting samples: OU4-RB-042011-01, OU4-SB-042011-01, OU4-SD-M09-211B, OU4-SD-M09-311B, OU4-SD-M08-211B, OU4-SD-M07-211B, OU4-SD-M07-311B, OU4-SD-M07-111B, OU4-SD-M08-311B, OU4-SD-FD-041911-03.
Action: No validation action was necessary as the analytes were non-detected for the samples and the alternate column %Ds were within the quality control limits.

The PEST CCV %Ds were greater than the 15% quality control limit for instrument GC01 on 05/05/11 @ 00:19 for analytical columns as listed below.

Analyte	ZB-MULTIRESIDUE-1	ZB-MULTIRESIDUE-2
alpha-BHC	18.60	------
gamma-BHC	20.60	------
beta-BHC	21.20	------
delta-BHC	33.80	15.20
Endrin	16.60	15.60

Affecting samples: All samples.
Action: Non-detected delta-BHC and endrin sample results were qualified estimated, (UJ). The alpha-BHC, gamma-BHC, and beta-BHC non-detected results were not qualified as the alternate column %Ds were within the quality control limits.

The PEST CCV %Ds were greater than the 15% quality control limit for instrument GC01 on 05/05/11 @ 03:14 (and 03:31) for analytical columns as listed below.

Analyte	ZB-MULTIRESIDUE-1	ZB-MULTIRESIDUE-2
alpha-BHC	20.40	------
gamma-BHC	21.20	------
beta-BHC	18.40	------
delta-BHC	30.40	------
Mirex	16.20	------

Affecting samples: Samples OU4-SD-M08-111B and OU4-SD-M09-111B
Action: No validation action was necessary as the analytes were non-detected for the samples and the alternate column %Ds were within the quality control limits.

The PCB congener CCV average %Ds were greater than the 15% quality control limit for instrument GC07 on 05/05/11 @ 17:13 and @ 22:26 for analytical columns as listed below.

Analyte	RTX-CLPESTICIDES	RTX-CLPESTICIDES2
PCB 66	22.80	18.40
PCB 123	15.60	------
PCB 81	16.20	------

PCB 126	15.60	------

Affecting samples: OU4-RB-042011-01 and OU4-SB-042011-01
Action: Non-detected PCB 66 sample results for the samples were qualified estimated, (UJ). The remainder of the PCB congener PCB 123, PCB 81, and PCB 126 results were not qualified as the alternate column was compliant and all sample PCB 123, PCB 81, and PCB 126 results were non-detected.

The PCB congener CCV average %Ds were greater than the 15% quality control limit for instrument GC07 on 05/11/11 @ 11:18 for both analytical columns for a number of PCB congeners. No validation action was taken as only a method blank, an LCS, an LCSD, an MS, and an MSD sample were affected.

The PCB congener CCV average %Ds were greater than the 15% quality control limit for instrument GC07 on 05/11/11 @ 14:26, @ 14:52, @ 20:05, and @ 20:31 for analytical columns as listed below.

Analyte	RTX-CLPESTICIDES		RTX-CLPESTICIDES2	
	@ 14:52	@ 20:31	@ 14:52	@ 20:31
PCB 209	22.20	36.60	------	------
PCB 8	------	16.00	------	------
PCB 18	------	18.60	------	------
PCB 28	------	22.60	------	------
PCB 52	------	27.00	------	------
PCB 44	------	27.60	------	------
PCB 66	------	27.60	------	------
PCB 101	16.20	30.80	------	------
PCB 118	16.00	29.00	------	------
PCB 153	20.60	33.40	------	------
PCB 105	------	26.40	------	------
PCB 138	16.60	30.80	------	------
PCB 187	21.40	34.20	------	------
PCB 128	17.80	31.60	------	------
PCB 180	18.20	33.00	------	------
PCB 170	------	29.00	------	------
PCB 195	24.40	36.60	------	------
PCB 206	18.60	34.60	------	------
PCB 114	16.20	30.00	------	------
PCB 123	------	29.20	------	------
PCB 126	------	------	28.80	15.60
PCB 156	------	25.00	------	------
PCB 167	15.80	30.40	------	------
PCB 169	------	------	31.60	19.60
PCB 189	------	25.20	15.20	------
PCB 157	------	25.40	------	------
PCB 77	------	20.80	20.00	------

Affecting samples: All sediment samples.
Action: Positive and non-detected PCB 189 and PCB 77 results for the samples were qualified estimated, (J) and (UJ), respectively.

The positive PCB congeners as listed below were qualified estimated, (J), as they were reported from the RTX-CLPESTICIDES column which was non-compliant.

Sample	Positive PCB congeners qualified
OU4-SD-M07-211B	PCB 66, PCB 118, PCB 206
OU4-SD-M07-311B	PCB 118, PCB 206

OU4-SD-M08-111B	PCB 66, PCB 118
OU4-SD-M08-211B	PCB 209, PCB 44, PCB 101, PCB 118, PCB 81
OU4-SD-M09-111B	PCB 66
OU4-SD-M09-211B	PCB 77
OU4-SD-M09-311B	PCB 209, PCB 66, PCB 118

The remaining positive PCB congener results were not qualified as the positive PCB congener results were reported from the compliant alternate column. The remaining non-detected PCB congener results were not qualified as the alternate column had CCV %Ds which were within the quality control limits.

LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE

The PAH laboratory control sample (LCS) percent recoveries (%R) were less than the quality control limit and the RPD for the LCS/LCS duplicate (LCSD) was greater than the quality control limit for naphthalene for batch WG90713. No validation action was taken as the LCSD %R was within the quality control limit.

The PAH LCSD %Rs were greater than the quality control limit for pyrene, chrysene, and benzo(k)fluoranthene and the RPDs for the LCS/LCSD were greater than the quality control limit for perylene and dibenzothiophene for batch WG90714. No validation action was taken as the LCS %Rs were within the quality control limits for pyrene, chrysene, and benzo(k)fluoranthene and both the LCS and the LCSD %Rs were within the quality control limits for perylene and dibenzothiophene.

The PAH batch WG90525 LCSD %Rs were less than the quality control limit for a number of PAH analytes and the RPD for all the LCS/LCSD PAH analytes was greater than the quality control limit. As the LCS %Rs for most of these PAH analytes were within the quality control limits, validation action was only taken for the PAH analytes fluoranthene and 1,1'-biphenyl for which the LCS %Rs were also outside the quality control limits. The affected samples OU4-RB-042011-01 and OU4-SB-042011-01 non-detected fluoranthene and 1,1'-biphenyl results were qualified estimated, (UJ)

The PEST LCS and the LCSD %Rs were greater than the quality control limit for heptachlor epoxide for batch WG90673 affecting the aqueous samples OU4-RB-042011-01 and OU4-SB-042011-01. No validation action was taken as the heptachlor epoxide sample results were non-detected.

The PEST LCSD %R was greater than the quality control limit for alpha-BHC for batch WG90673 affecting aqueous samples OU4-RB-042011-01 and OU4-SB-042011-01. No validation action was taken as the LCS %R was within the quality control limits for alpha-BHC.

The PCB-153 LCS and LCSD %Rs were greater than the quality control limit for both batch WG90797 and WG90689 affecting all sediment and aqueous samples. No validation action was taken as sample PCB-153 results were either non-detected or qualified as non-detected for method blank contamination.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE (MS / MSD)

The PAH MSD %Rs were less than the quality control limit for the PAHs phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)-perylene for spiked sample OU4-SD-M05-211B. No action was taken for the aforementioned sample PAHs with MSD %Rs for the analytes within the quality control limits. The perylene MSD %R was also less than the quality control limit for the spiked sample and therefore the perylene result for spiked sample OU4-SD-M05-211B was qualified estimated, (J).

The PAH MS %Rs were greater than the quality control limit for the PAHs fluorene, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and indeno(1,2,3-cd)pyrene for spiked sample OU4-SD-M08-111B. Additionally, the MS/MSD RPDs for phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, and benzo(b)fluoranthene were greater than the quality control limit. All MSD %Rs for the aforementioned parameters except fluoranthene were acceptable. No action was taken for the aforementioned sample PAHs which had MSD %Rs for the analytes within the quality control limits. The fluoranthene MSD %R was greater than the quality control limit for the spiked sample, therefore the fluoranthene result for spiked sample OU4-SD-M08-111B was qualified estimated, (J).

The MS and MSD %Rs were greater than the quality control limit for the PEST analyte 4,4'-DDD for spiked sample OU4-SD-M08-111B. The positive 4,4'-DDD result for the sample was qualified estimated, (J).

The MS and MSD %Rs were greater than the quality control limit for the PCB congener for PCB 153 for spiked sample OU4-SD-M08-111B. The PCB 153 result for the sample was non-detected and was not qualified.

INTERNAL STANDARDS

No internal standard issues were identified.

SURROGATE SPIKE RECOVERIES

The PAH surrogate fluorene-d10 %R was less than the quality control limit and less than 10% for samples OU4-SD-M05-111B dilution analysis and OU4-SD-M12-211B dilution analysis. Sample OU4-SD-M05-111B positive results for benzo(b)fluoranthene, fluoranthene, phenanthrene, and pyrene reported from the dilution analysis were qualified estimated, (J). Sample OU4-SD-M012-211B positive results for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene reported from the dilution analysis were qualified estimated, (J).

The PAH surrogate fluorene-d10 %R was less than the quality control limit (and > 10%) for sample OU4-SD-M05-411B dilution analysis. No validation action was taken for a single surrogate quality control limit non-compliance.

The PEST surrogate decachlorobiphenyl (DCB) %R was less than the quality control limit for both analytical columns for sample OU4-RB-042011-01. All PEST analytes were non-detected for the sample and were qualified estimated, (UJ).

Sediment samples OU4-SD-M09-111B and OU4-SD-M09-311B had PCB congener surrogate %Rs for tetrachloro-m-xylene (TCX) and PCB 103 less than the quality control limit for both analytical columns. Positive and non-detected sample OU4-SD-M09-111B and OU4-SD-M09-311B PCB congener results were qualified estimated, (J) and (UJ), respectively, except where qualified for method blank contamination.

All sediment samples had PCB congener surrogate %Rs, for two or more of the surrogates, less than the quality control limit for analytical column RTX-CLPESTICIDES. The non-detected PCB congener results were not qualified as the alternate analytical column %Rs were within the quality control limits. The positive sample PCB congener results reported from the analytical column RTX-CLPESTICIDES were qualified estimated, (J), as listed below except where qualified for method blank contamination.

Sample	Positive PCB congeners qualified
OU4-SD-M07-211B	PCB 66, PCB 118, PCB 206, PCB 77
OU4-SD-M07-311B	PCB 118, PCB 206

OU4-SD-M08-111B	PCB 66, PCB 118
OU4-SD-M08-211B	PCB 209, PCB 44, PCB 101, PCB 118, PCB 169, PCB 81
OU4-SD-M09-111B	PCB 66
OU4-SD-M09-211B	PCB 169, PCB 77
OU4-SD-M09-311B	PCB 209, PCB 66, PCB 118,

FIELD DUPLICATE PRECISION

The field duplicate pair samples OU4-FD-041911-01 and OU4-SD-M01-111B had an RPD greater than the 50% quality control limit for the PAH anthracene. The positive PAH anthracene results for samples OU4-FD-041911-01 and OU4-SD-M01-111B were qualified estimated, (J).

The field duplicate pair samples OU4-FD-041911-02 and OU4-SD-M05-111B had RPDs for the PAHs anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(g.h.i)perylene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, benzo(b)fluoranthene, fluoranthene, phenanthrene, and pyrene greater than the 50% quality control limit. The positive aforementioned PAH results for samples OU4-FD-041911-02 and OU4-SD-M05-111B were qualified estimated, (J).

COMPOUND QUANTIFICATION

The following samples had percent moisture contents greater than 70%. These sample positive and non-detected analytes were qualified estimated, (J) and (UJ), respectively.

Sample	Moisture
OU4-SD-M09-111B	72.1 %
OU4-SD-M09-211B	72.4 %
OU4-SD-M09-311B	73.4 %

The analytical column RPDs were greater than the 40% quality control limit for positive sample PEST analyte results as listed. PEST column RPD results which exceeded the 40% quality control limit were qualified estimated, (J).

Sample	Analyte	RPD	Qualification
OU4-SD-M07-211B	4,4'-DDD	63.6	J
OU4-SD-M08-111B	4,4'-DDE	42.1	J
OU4-SD-M08-211B	heptachlor epoxide	61.3	J
	4,4'-DDE	49.2	J
OU4-SD-M09-111B	4,4'-DDE	74.3	J
	4,4'-DDD	62.3	J
	4,4'-DDT	43.7	J
OU4-SD-M09-311B	4,4'-DDE	40.6	J
	4,4'-DDD	56.7	J

The analytical column RPDs were greater than the 40% quality control limit for positive sample PCB congener analyte results as listed. PCB congener column RPD results which exceeded the 40% quality control limit were qualified estimated, (J), except where qualified non-detected due to method blank contamination.

Sample	Analyte	RPD	Qualification
OU4-SD-M07-211B	PCB 66	91.8	J
	PCB 180	116.2	J
OU4-SD-M07-311B	PCB 180	63.7	J
OU4-SD-M08-111B	PCB 180	65.5	J
	PCB 170	74.0	U for method blank contamination

	PCB 206	85.7	J
OU4-SD-M08-211B	PCB 52	79.0	J
	PCB 180	56.1	J
	PCB 206	67.8	J
	PCB 169	120.6	J
OU4-SD-M08-311B	PCB 187	43.4	J
	PCB 180	45.9	J
	PCB 170	58.7	U for method blank contamination
OU4-SD-M09-111B	PCB 66	74.3	J
	PCB 118	62.3	J
	PCB 105	45.0	J
	PCB 187	48.1	J
	PCB 180	47.4	J
	PCB 206	53.1	J
OU4-SD-M09-311B	PCB 101	77.0	J
	PCB 180	69.5	J
	PCB 206	42.7	J
	PCB 77	86.5	J

Sample OU4-SD-M09-311B non-detected result 1,2,3,7,8- PeCDF was qualified estimated, (UJ), due to a quantitative matrix interference as noted in the laboratory narrative.

ADDITIONAL COMMENTS

The PAH analyte benzo(e)pyrene was not analyzed for by laboratory as part of the PAH sample analysis as specified in the Sampling and Analysis Plan (SAP). No action was taken for this issue.

The laboratory performed the PEST analysis for more PESTs than required by the SAP. The SAP had listed only the analysis for the PEST 4,4'-DDT be performed by the laboratory for the samples. The laboratory performed and reported the sample analysis for a much larger list of PESTs. No action was taken for this issue.

The laboratory performed the analysis for trans-nonachlor as part of the PEST analysis instead of the PCB congener analysis as listed in the SAP. No action was taken for this issue.

Three samples had percent solids content less than 30% (%moisture >70%); samples OU4-SD-M09-111B (27.9% solids), OU4-SD-M09-211B (27.6% solids), and OU4-SD-M09-311B (26.6% solids). The laboratory did not increase the sample extraction or preparation weights for these samples for any of the fractions within this SDG. Despite the lack of an increased sample aliquot for preparation, in order to minimize the effect of low solids content on reporting limits, all positive and non-detected results for the aforementioned samples were qualified estimated, (J) and (UJ), respectively.

Positive results reported below the quantitation limit but above the method detection limit were qualified as estimated, (J).

Positive reported results for PCDD and PCDF congeners attributed to Estimated Maximum Possible Concentrations (EMPCs) were qualified estimated, (J).

Samples were analyzed both undiluted and diluted for PAHs due to results which exceeded the highest calibration level in the undiluted sample analysis. Only analyte results which exceeded the highest calibration level in the undiluted sample analysis were reported from the dilution analysis. The sample OU4-SD-M12-

111B result for perylene exceeded the highest calibration level in the undiluted analysis but was non-detected in the 25X dilution re-analysis. The original undiluted sample perylene result was reported and qualified estimated, (J), for exceeding the highest calibration level in the undiluted 1X sample analysis.

Sample	Dilution
OU4-FD-041911-01	1X, 5X
OU4-SD-M01-111B	1X, 4X
OU4-SD-M01-211B	1X, 5X
OU4-SD-M01-311B	1X, 15X
OU4-SD-M03-111B	1X, 5X
OU4-SD-M03-211B	1X, 10X
OU4-SD-M04-111B	1X, 3X
OU4-SD-M05-111B	1X, 6X
OU4-SD-M05-411B	1X, 4X
OU4-SD-M08-211B	1X, 2X
OU4-SD-M09-211B	1X, 3X
OU4-SD-M09-311B	1X, 2X
OU4-SD-M12-111B	1X, 25X
OU4-SD-M12-211B	1X, 8X
OU4-SD-M12-311B	1X, 25X

All sediment samples were analyzed at a 2X dilution for PCB congeners. Due to the dilution analyses, the sample non-detected PCB congeners had elevated limits of detection reported.

An incorrect result in the electronic database (EDD) for the PCB congener PCB 105 was discovered by the validation chemist for sample OU4-SD-M09-111B. The correct result was entered into the EDD by the validation chemist.

The laboratory abbreviated the sample identifications throughout the laboratory report due to a character limitation of the laboratory forms processing system. No action was taken for this issue.

Sample results were reported to the Limit of Detection (LOD).

A dioxin sediment sample had incorrect percent moisture results entered in the electronic database. The validation chemist manually entered the correct sample percent moisture results.

EXECUTIVE SUMMARY

Laboratory Performance: PCB congeners and dioxin and furan congener sample results were qualified for method blank contamination. PAHs, PEST, and PCB congener sample %D quality control limit non-compliances resulted in positive and non-detected analyte qualifications. PAH non-detected analyte results were qualified for LCS and LCSD quality control limit non-compliances. Sample PAH and PEST results were qualified for MS/MSD %R quality control limit non-compliances. Sample PAH, PEST, and PCB congener positive and non-detected results were qualified for surrogate %R quality control limit non-compliances. Field duplicate sample PAH analyte results were qualified for RPD quality control limit non-compliances. All PAH, PEST, PCB congener, and dioxin results for samples OU4-SD-M09-111B, OU4-SD-M09-211B, and OU4-SD-M09-311B were qualified for percent moisture content greater than 70%.

Other Factors Affecting Data Quality: Positive results reported below the limit of quantitation (LOQ) but above the method detection limit were qualified as estimated, (J).

The data for these analyses were reviewed with reference to the "USEPA Region 1 Laboratory Data Validation Functional Guidelines – Part II" (12/96), USEPA National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins (CDDs) and Chlorinated Dibenzofurans (CDFs) (September 2005), and the (DOD) QSM document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).

Tetra Tech NUS
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Chemist/Data Validator

Tetra Tech NUS
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Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Regional Worksheets
Appendix D – Support Documentation

APPENDIX A

QUALIFIED LABORATORY RESULTS

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
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 (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficent $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02225	NSAMPLE	OU4-FD-041911-01			OU4-FD-041911-01DL			OU4-FD-041911-02			OU4-SD-FD-041911-03		
SDG: WE29-1	LAB_ID	SE2074-10			SE2074-10DL			SE2074-25			SE2074-28		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	78.9			78.9			53.8			65.4		
	DUP_OF	OU4-SD-M01-111B			OU4-SD-M01-111B			OU4-SD-M05-111B			OU4-SD-M07-111B		
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		5.9	J	P				2.7	J	P	14	U	
ACENAPHTHENE		8.4	J	P				13	J	P	14	U	
ACENAPHTHYLENE		21	J	P				6.2	J	P	1.9	J	P
ANTHRACENE		32	J	G				42	J	G	9.6	J	P
BENZO(A)ANTHRACENE		200						170	J	G	61		
BENZO(A)PYRENE		290						190	J	G	74		
BENZO(B)FLUORANTHENE		300						250	J	G	100		
BENZO(G,H,I)PERYLENE		190						98	J	G	48		
BENZO(K)FLUORANTHENE		80						97	J	G	35		
CHRYSENE		260						200	J	G	80		
DIBENZO(A,H)ANTHRACENE		43						34	J	P	15	J	P
DIBENZOTHIOPHENE		12	U					18	U		14	U	
FLUORANTHENE		310						350	J	G	140		
FLUORENE		31						19	J	P	14	U	
INDENO(1,2,3-CD)PYRENE		160						130	J	G	60		
NAPHTHALENE		33						9	J	P	14	U	
PERYLENE		41						44			14	U	
PHENANTHRENE					410			170	J	G	59		
PYRENE					950			460	J	G	210		

PROJ_NO: 02225	NSAMPLE	OU4-RB-042011-01			OU4-SB-042011-01		
SDG: WE29-1	LAB_ID	SE2074-32			SE2074-33		
FRACTION: PAH	SAMP_DATE	4/20/2011			4/20/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		0.095	UJ	E	0.097	UJ	E
ACENAPHTHENE		0.095	U		0.097	U	
ACENAPHTHYLENE		0.095	U		0.097	U	
ANTHRACENE		0.095	U		0.097	U	
BENZO(A)ANTHRACENE		0.095	U		0.097	U	
BENZO(A)PYRENE		0.095	U		0.097	U	
BENZO(B)FLUORANTHENE		0.095	U		0.097	U	
BENZO(G,H,I)PERYLENE		0.095	U		0.097	U	
BENZO(K)FLUORANTHENE		0.095	U		0.097	U	
CHRYSENE		0.095	U		0.097	U	
DIBENZO(A,H)ANTHRACENE		0.095	U		0.097	U	
DIBENZOTHIOPHENE		0.095	U		0.097	U	
FLUORANTHENE		0.095	UJ	E	0.097	UJ	E
FLUORENE		0.095	U		0.097	U	
INDENO(1,2,3-CD)PYRENE		0.095	U		0.097	U	
NAPHTHALENE		0.095	U		0.097	U	
PERYLENE		0.095	U		0.097	U	
PHENANTHRENE		0.095	U		0.097	U	
PYRENE		0.095	U		0.097	U	

PROJ_NO: 02225	NSAMPLE	OU4-SD-M01-111B			OU4-SD-M01-111BDL			OU4-SD-M01-211B			OU4-SD-M01-211BDL		
SDG: WE29-1	LAB_ID	SE2074-7			SE2074-7DL			SE2074-8			SE2074-8DL		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	84.7			84.7			68.6			68.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		5.5	J	P				9.5	J	P			
ACENAPHTHENE		37						6.7	J	P			
ACENAPHTHYLENE		12	J	P				23	J	P			
ANTHRACENE		68	J	G				37					
BENZO(A)ANTHRACENE					290			310					
BENZO(A)PYRENE					320						460		
BENZO(B)FLUORANTHENE					380						460		
BENZO(G,H,I)PERYLENE		190						230					
BENZO(K)FLUORANTHENE		120						140					
CHRYSENE					330						380		
DIBENZO(A,H)ANTHRACENE		58						68					
DIBENZOTHIOPHENE		11	U					13	U				
FLUORANTHENE					510						360		
FLUORENE		52						15	J	P			
INDENO(1,2,3-CD)PYRENE		200						230					
NAPHTHALENE		57						50					
PERYLENE		58						73					
PHENANTHRENE					380			130					
PYRENE					660						690		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M01-311B			OU4-SD-M01-311BDL			OU4-SD-M03-111B			OU4-SD-M03-111BDL		
SDG: WE29-1	LAB_ID	SE2074-9			SE2074-9DL			SE2074-4			SE2074-4DL		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/18/2011			4/18/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	62.5			62.5			49.4			49.4		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		12	J	P				4.9	J	P			
ACENAPHTHENE		83						26	J	P			
ACENAPHTHYLENE		34						16	J	P			
ANTHRACENE		210						76					
BENZO(A)ANTHRACENE					970			400					
BENZO(A)PYRENE					1000			440					
BENZO(B)FLUORANTHENE					1100						640		
BENZO(G,H,I)PERYLENE					570			240					
BENZO(K)FLUORANTHENE		350						220					
CHRYSENE					1000			490					
DIBENZO(A,H)ANTHRACENE		150						82					
DIBENZOTHIOPHENE		50						19	U				
FLUORANTHENE					1700						840		
FLUORENE		110						38	J	P			
INDENO(1,2,3-CD)PYRENE					700	J	C	330					
NAPHTHALENE		87						32	J	P			
PERYLENE		180						100					
PHENANTHRENE					960			390					
PYRENE					2100						1100		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M03-211B			OU4-SD-M03-211BDL			OU4-SD-M03-311B			OU4-SD-M04-111B		
SDG: WE29-1	LAB_ID	SE2074-3			SE2074-3DL			SE2074-1			SE2074-5		
FRACTION: PAH	SAMP_DATE	4/18/2011			4/18/2011			4/18/2011			4/18/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	57.0			57.0			44.9			49.4		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		8.3	J	P				2.8	J	P	5.4	J	P
ACENAPHTHENE		97						21	J	P	25	J	P
ACENAPHTHYLENE		22	J	P				12	J	P	14	J	P
ANTHRACENE		310						55			150		
BENZO(A)ANTHRACENE					780			200			340		
BENZO(A)PYRENE					870			200			370		
BENZO(B)FLUORANTHENE					1100			270			520		
BENZO(G,H,I)PERYLENE					490			99			170		
BENZO(K)FLUORANTHENE		420						110			180		
CHRYSENE					970			240			360		
DIBENZO(A,H)ANTHRACENE		160						36	J	P	61		
DIBENZOTHIOPHENE		61						20	U		20	U	
FLUORANTHENE					1900			420					
FLUORENE		120						26	J	P	56		
INDENO(1,2,3-CD)PYRENE					680			130			230		
NAPHTHALENE		66						24	J	P	34	J	P
PERYLENE		220						45			83		
PHENANTHRENE					1200			200			380		
PYRENE					2100			410					

PROJ_NO: 02225	NSAMPLE	OU4-SD-M04-111BDL			OU4-SD-M04-211B			OU4-SD-M04-311B			OU4-SD-M05-111B		
SDG: WE29-1	LAB_ID	SE2074-5DL			SE2074-2			SE2074-6			SE2074-22		
FRACTION: PAH	SAMP_DATE	4/18/2011			4/18/2011			4/18/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	49.4			44.7			79.0			47.5		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL					2.6	J	P	12	U		2.5	J	P
ACENAPHTHENE					7.5	J	P	3.6	J	P	62		
ACENAPHTHYLENE					10	J	P	2.4	J	P	8.2	J	P
ANTHRACENE					24	J	P	22	J	P	130	J	G
BENZO(A)ANTHRACENE					140			110			410	J	G
BENZO(A)PYRENE					160			120			390	J	G
BENZO(B)FLUORANTHENE					200			170					
BENZO(G,H,I)PERYLENE					75			50			180	J	G
BENZO(K)FLUORANTHENE					80			62			190	J	G
CHRYSENE					170			120			420	J	G
DIBENZO(A,H)ANTHRACENE					27	J	P	19	J	P	60		
DIBENZOTHIOPHENE					22	U		12	U		42		
FLUORANTHENE		620			240			240					
FLUORENE					14	J	P	5.2	J	P	71		
INDENO(1,2,3-CD)PYRENE					99			71			240	J	CG
NAPHTHALENE					17	J	P	12	U		8.8	J	P
PERYLENE					22	U		27			87		
PHENANTHRENE					120			78					
PYRENE		750			300			240					

PROJ_NO: 02225	NSAMPLE	OU4-SD-M05-111BDL			OU4-SD-M05-211B			OU4-SD-M05-311B			OU4-SD-M05-411B		
SDG: WE29-1	LAB_ID	SE2074-22DL			SE2074-21			SE2074-24			SE2074-23		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	47.5			39.9			51.4			39.8		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL					22	U		17	U		3.4	J	P
ACENAPHTHENE					12	J	P	6.4	J	P	51		
ACENAPHTHYLENE					8.6	J	P	6.4	J	P	9.7	J	P
ANTHRACENE					40	J	P	17	J	P	140		
BENZO(A)ANTHRACENE					200			100			390		
BENZO(A)PYRENE					230			110			380		
BENZO(B)FLUORANTHENE		480	J	GR	340			150			500		
BENZO(G,H,I)PERYLENE					130			47			190		
BENZO(K)FLUORANTHENE					120			51			180		
CHRYSENE					240			120			400		
DIBENZO(A,H)ANTHRACENE					42	J	P	16	J	P	65		
DIBENZOTHIOPHENE					22	U		17	U		24	U	
FLUORANTHENE		960	J	GR	470			170					
FLUORENE					18	J	P	9	J	P	61		
INDENO(1,2,3-CD)PYRENE					170			60			240	J	C
NAPHTHALENE					6.8	J	P	17	U		13	J	P
PERYLENE					50	J	D	17	U		82		
PHENANTHRENE		700	J	GR	210			90			580		
PYRENE		1000	J	GR	510			270					

PROJ_NO: 02225	NSAMPLE	OU4-SD-M05-411BDL			OU4-SD-M07-111B			OU4-SD-M07-211B			OU4-SD-M07-311B		
SDG: WE29-1	LAB_ID	SE2074-23DL			SE2074-26			SE2074-14			SE2074-15		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	39.8			65.5			33.7			34.7		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL					14	U		28	U		25	U	
ACENAPHTHENE					3	J	P	9.3	J	P	6	J	P
ACENAPHTHYLENE					2.4	J	P	17	J	P	12	J	P
ANTHRACENE					11	J	P	48	J	P	29	J	P
BENZO(A)ANTHRACENE					70			230			150		
BENZO(A)PYRENE					83			250			170		
BENZO(B)FLUORANTHENE					120			300			210		
BENZO(G,H,I)PERYLENE					57			110			81		
BENZO(K)FLUORANTHENE					40			100			76		
CHRYSENE					90			240			160		
DIBENZO(A,H)ANTHRACENE					18	J	P	42	J	P	28	J	P
DIBENZOTHIOPHENE					14	U		28	U		25	U	
FLUORANTHENE		880			160			340			240		
FLUORENE					5.8	J	P	17	J	P	13	J	P
INDENO(1,2,3-CD)PYRENE					70			140			100		
NAPHTHALENE					14	U		20	J	P	16	J	P
PERYLENE					14	U		28	U		25	U	
PHENANTHRENE					73			140			110		
PYRENE		1100			230			450			390		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M08-111B			OU4-SD-M08-211B			OU4-SD-M08-211BDL			OU4-SD-M08-311B		
SDG: WE29-1	LAB_ID	SE2074-29			SE2074-13			SE2074-13DL			SE2074-27		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	67.6			52.8			52.8			68.7		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		14	U		3.4	J	P				13	U	
ACENAPHTHENE		2.9	J	P	26	J	P				13	U	
ACENAPHTHYLENE		2.8	J	P	7.1	J	P				13	U	
ANTHRACENE		13	J	P	60						5	J	P
BENZO(A)ANTHRACENE		63			200						26	J	P
BENZO(A)PYRENE		73			210						30		
BENZO(B)FLUORANTHENE		98			280						44		
BENZO(G,H,I)PERYLENE		42			99						17	J	P
BENZO(K)FLUORANTHENE		32			94						17	J	P
CHRYSENE		81			220						34		
DIBENZO(A,H)ANTHRACENE		13	J	P	38						5.5	J	P
DIBENZOTHIOPHENE		14	U		18	U					13	U	
FLUORANTHENE		150	J	D	380						62		
FLUORENE		4.7	J	P	35	J	P				13	U	
INDENO(1,2,3-CD)PYRENE		50			120						23	J	P
NAPHTHALENE		14	U		16	J	P				13	U	
PERYLENE		14	U		42						13	U	
PHENANTHRENE		58			240						22	J	P
PYRENE		150						460			68		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M09-111B			OU4-SD-M09-211B			OU4-SD-M09-211BDL			OU4-SD-M09-311B		
SDG: WE29-1	LAB_ID	SE2074-30			SE2074-11			SE2074-11DL			SE2074-12		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	27.9			27.6			27.6			26.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		34	UJ	Y	5.8	J	PY				5	J	PY
ACENAPHTHENE		10	J	PY	41	J	PY				39	J	PY
ACENAPHTHYLENE		5.8	J	PY	16	J	PY				21	J	PY
ANTHRACENE		57	J	PY	120	J	Y				100	J	Y
BENZO(A)ANTHRACENE		150	J	Y	470	J	Y				450	J	Y
BENZO(A)PYRENE		160	J	Y	470	J	Y				450	J	Y
BENZO(B)FLUORANTHENE		240	J	Y	600	J	Y				600	J	Y
BENZO(G,H,I)PERYLENE		77	J	Y	210	J	Y				230	J	Y
BENZO(K)FLUORANTHENE		88	J	Y	240	J	Y				220	J	Y
CHRYSENE		200	J	Y	480	J	Y				430	J	Y
DIBENZO(A,H)ANTHRACENE		26	J	PY	74	J	Y				76	J	Y
DIBENZOTHIOPHENE		34	UJ	Y	28	UJ	Y				36	UJ	Y
FLUORANTHENE		350	J	Y				860	J	Y	880	J	Y
FLUORENE		17	J	PY	53	J	PY				48	J	PY
INDENO(1,2,3-CD)PYRENE		110	J	Y	290	J	Y				300	J	Y
NAPHTHALENE		34	UJ	Y	34	J	PY				35	J	PY
PERYLENE		34	UJ	Y	110	J	Y				100	J	Y
PHENANTHRENE		140	J	Y	460	J	Y				430	J	Y
PYRENE		440	J	Y				980	J	Y			

PROJ_NO: 02225 SDG: WE29-1 FRACTION: PAH MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M09-311BDL			OU4-SD-M12-111B			OU4-SD-M12-111BDL			OU4-SD-M12-211B		
	LAB_ID	SE2074-12DL			SE2074-31			SE2074-31DL			SE2074-20		
	SAMP_DATE	4/19/2011			4/20/2011			4/20/2011			4/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	26.6			56.5			56.5			32.3		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL					27	J	P				9	J	P
ACENAPHTHENE								660	J	P	220		
ACENAPHTHYLENE					17	U					20	J	P
ANTHRACENE								860			250		
BENZO(A)ANTHRACENE								2400					
BENZO(A)PYRENE								2300					
BENZO(B)FLUORANTHENE								3000					
BENZO(G,H,I)PERYLENE								860			350		
BENZO(K)FLUORANTHENE								1600			490		
CHRYSENE								3000					
DIBENZO(A,H)ANTHRACENE					410						130		
DIBENZOTHIOPHENE					280						100		
FLUORANTHENE								6800					
FLUORENE								600	J	P	190		
INDENO(1,2,3-CD)PYRENE								1400	J	C	510		
NAPHTHALENE					220						71		
PERYLENE					470	J	L	~~420~~	~~U~~		190		
PHENANTHRENE								4900					
PYRENE		950	J	Y				6400					

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PROJ_NO: 02225	NSAMPLE	OU4-SD-M12-211BDL			OU4-SD-M12-311B			OU4-SD-M12-311BDL		
SDG: WE29-1	LAB_ID	SE2074-20DL			SE2074-19			SE2074-19DL		
FRACTION: PAH	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	32.3			36.5			36.5		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL					26	J	P			
ACENAPHTHENE					560					
ACENAPHTHYLENE					23	U				
ANTHRACENE								800	J	P
BENZO(A)ANTHRACENE		900	J	R				2100		
BENZO(A)PYRENE		920	J	R				2000		
BENZO(B)FLUORANTHENE		1200	J	CR				2400		
BENZO(G,H,I)PERYLENE								840	J	P
BENZO(K)FLUORANTHENE					330					
CHRYSENE		1200	J	R				2700		
DIBENZO(A,H)ANTHRACENE					320					
DIBENZOTHIOPHENE					23	U				
FLUORANTHENE		2500	J	R				5600		
FLUORENE					600					
INDENO(1,2,3-CD)PYRENE								1300		
NAPHTHALENE					220					
PERYLENE					400					
PHENANTHRENE		1600	J	R				4500		
PYRENE		2300	J	R				5600		

PROJ_NO: 02225 SDG: WE29-1 FRACTION: PCB MEDIA: WATER	NSAMPLE	OU4-RB-042011-01			OU4-SB-042011-01		
	LAB_ID	SE2074-32			SE2074-33		
	SAMP_DATE	4/20/2011			4/20/2011		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
PCB-101		0.0086	U		0.0086	U	
PCB-105		0.0048	U		0.0048	U	
PCB-114		0.0048	U		0.0048	U	
PCB-118		0.0048	U		0.0048	U	
PCB-123		0.014	U		0.014	U	
PCB-126		0.048	U		0.048	U	
PCB-128		0.0076	U		0.0076	U	
PCB-138		0.0048	U		0.0048	U	
PCB-153		0.0048	U		0.0048	U	
PCB-156		0.0048	U		0.0048	U	
PCB-157		0.0048	U		0.0048	U	
PCB-167		0.0048	U		0.0048	U	
PCB-169		0.0048	U		0.0048	U	
PCB-170		0.0048	U		0.0048	U	
PCB-18		0.048	U		0.048	U	
PCB-180		0.0048	U		0.0048	U	
PCB-187		0.0076	U		0.0076	U	
PCB-189		0.048	U		0.048	U	
PCB-195		0.048	U		0.048	U	
PCB-206		0.0048	U		0.0048	U	
PCB-209		0.0048	U		0.0048	U	
PCB-28		0.048	U		0.048	U	
PCB-44		0.0076	U		0.0076	U	
PCB-52		0.0048	U		0.0048	U	
PCB-66		0.0048	UJ	C	0.0048	UJ	C
PCB-77		0.0048	U		0.0048	U	
PCB-8		0.048	U		0.048	U	
PCB-81		0.0048	U		0.0048	U	

PROJ_NO: 02225	NSAMPLE	OU4-SD-FD-041911-03			OU4-SD-M07-111B			OU4-SD-M07-211B			OU4-SD-M07-311B		
SDG: WE29-1	LAB_ID	SE2074-28			SE2074-26			SE2074-14			SE2074-15		
FRACTION: PCB	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	65.4			65.5			33.7			34.7		
	DUP_OF	OU4-SD-M07-111B											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PCB-101		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-105		1.5	U		3	U		2.8	U		2.7	U	
PCB-114		0.76	U		1.5	U		1.4	U		1.2	J	P
PCB-118		0.76	U		1.5	U		1.4	J	CPR	0.71	J	CPR
PCB-123		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-126		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-128		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-138		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-153		0.76	U		1.5	U		1.9	U	A	1.5	U	A
PCB-156		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-157		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-167		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-169		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-170		0.76	U		1.5	U		0.74	U	A	0.75	U	A
PCB-18		3	U		6	U		5.6	U		5.4	U	
PCB-180		0.76	U		1.5	U		1.9	J	PU	1.8	J	PU
PCB-187		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-189		0.76	UJ	C	1.5	UJ	C	1.4	UJ	C	1.4	UJ	C
PCB-195		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-206		0.76	U		1.5	U		0.83	J	CPR	0.34	J	CPR
PCB-209		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-28		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-44		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-52		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-66		0.76	U		1.5	U		3	J	CRU	1.4	U	
PCB-77		0.76	UJ	C	1.5	UJ	C	3.1	J	CR	1.4	UJ	C
PCB-8		0.76	U		1.5	U		1.4	U		1.4	U	
PCB-81		0.76	U		1.5	U		1.4	U		1.4	U	

PROJ_NO: 02225 SDG: WE29-1 FRACTION: PCB MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M08-111B			OU4-SD-M08-211B			OU4-SD-M08-311B			OU4-SD-M09-111B		
	LAB_ID	SE2074-29			SE2074-13			SE2074-27			SE2074-30		
	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	67.6			52.8			68.7			27.9		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PCB-101		0.72	U		1.6	J	CPR	0.72	U		3.2	J	PRY
PCB-105		1.4	U		1.8	U		1.4	U		2.6	J	PRUY
PCB-114		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-118		0.44	J	CPR	1.8	J	CPR	0.72	U		4.7	J	RUY
PCB-123		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-126		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-128		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-138		0.72	U		0.9	U		0.72	U		3.3	J	PRY
PCB-153		0.72	U		0.9	U		0.72	U		4.2	U	A
PCB-156		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-157		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-167		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-169		0.72	U		3.2	J	UR	0.72	U		1.7	UJ	RY
PCB-170		0.7	U	A	0.9	U		1.2	U	A	1.7	UJ	RY
PCB-18		2.9	U		3.6	U		2.9	U		6.8	UJ	RY
PCB-180		1.2	J	PU	4.3	J	U	2.3	J	~~P~~ U	3.4	J	RUY
PCB-187		0.72	U		1.7	J	P	1.2	J	PU	2.9	J	PRUY
PCB-189		0.72	UJ	C	0.9	UJ	C	0.72	UJ	C	1.7	UJ	CRY
PCB-195		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-206		0.36	J	PU	2.4	J	U	0.21	J	PU	29	J	URY
PCB-209		0.72	U		0.72	J	CPR	0.72	U		6.7	J	RY
PCB-28		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-44		0.72	U		0.46	J	CPR	0.72	U		1.7	UJ	RY
PCB-52		0.72	U		0.87	J	PU	0.72	U		1.7	UJ	RY
PCB-66		0.61	J	CPR	2.4			0.45	J	P	2.8	J	CPRUY
PCB-77		0.72	UJ	C	0.9	UJ	C	0.72	UJ	C	1.7	UJ	CRY
PCB-8		0.72	U		0.9	U		0.72	U		1.7	UJ	RY
PCB-81		0.62	J	P	3.2	J	CR	0.72	U		1.7	UJ	RY

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PROJ_NO: 02225	NSAMPLE	OU4-SD-M09-211B			OU4-SD-M09-311B		
SDG: WE29-1	LAB_ID	SE2074-11			SE2074-12		
FRACTION: PCB	SAMP_DATE	4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM		
	UNITS	UG/KG			UG/KG		
	PCT_SOLIDS	27.6			26.6		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
PCB-101		1.8	UJ	Y	5	J	RUY
PCB-105		3.5	UJ	Y	3.5	UJ	RY
PCB-114		1.8	UJ	Y	1.8	UJ	RY
PCB-118		1.6	J	PY	1.7	J	CPRY
PCB-123		1.8	UJ	Y	1.8	UJ	RY
PCB-126		1.8	UJ	Y	1.8	UJ	RY
PCB-128		1.8	UJ	Y	1.8	UJ	RY
PCB-138		1.8	UJ	Y	1.8	UJ	RY
PCB-153		2.6	U	A	3.6	U	A
PCB-156		1.8	UJ	Y	1.8	UJ	RY
PCB-157		1.8	UJ	Y	1.8	UJ	RY
PCB-167		1.8	UJ	Y	1.8	UJ	RY
PCB-169		2.1	J	PRY	3.3	J	PRY
PCB-170		1.8	UJ	Y	1.8	UJ	RY
PCB-18		7.1	UJ	Y	7	UJ	RY
PCB-180		1.8	UJ	Y	3.8	J	RUY
PCB-187		1.8	UJ	Y	1.8	UJ	RY
PCB-189		1.8	UJ	CY	1.8	UJ	CRY
PCB-195		1.8	UJ	Y	1.8	UJ	RY
PCB-206		1.8	UJ	Y	7.2	J	URY
PCB-209		1.8	UJ	Y	1.6	J	CPRY
PCB-28		1.8	UJ	Y	1.8	UJ	RY
PCB-44		1.8	UJ	Y	0.7	J	PRY
PCB-52		1.8	UJ	Y	0.93	J	PRY
PCB-66		1.8	UJ	Y	3	J	CPRY
PCB-77		4.2	J	CRY	8.9	J	CRUY
PCB-8		1.8	UJ	Y	1.8	UJ	RY
PCB-81		1.8	UJ	Y	1.8	UJ	RY

PROJ_NO: 02225	NSAMPLE	OU4-RB-042011-01			OU4-SB-042011-01		
SDG: WE29-1	LAB_ID	SE2074-32			SE2074-33		
FRACTION: PEST	SAMP_DATE	4/20/2011			4/20/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
2,4'-DDD		0.048	UJ	R	0.054	U	
2,4'-DDE		0.048	UJ	R	0.054	U	
2,4'-DDT		0.048	UJ	R	0.054	U	
4,4'-DDD		0.048	UJ	R	0.054	U	
4,4'-DDE		0.048	UJ	R	0.054	U	
4,4'-DDT		0.048	UJ	R	0.054	U	
ALDRIN		0.024	UJ	R	0.027	U	
ALPHA-BHC		0.024	UJ	R	0.027	U	
ALPHA-CHLORDANE		0.024	UJ	R	0.027	U	
BETA-BHC		0.024	UJ	R	0.027	U	
CIS-NONACHLOR		0.048	UJ	R	0.054	U	
DELTA-BHC		0.024	UJ	R	0.027	U	
DIELDRIN		0.048	UJ	R	0.054	U	
ENDOSULFAN II		0.048	UJ	R	0.054	U	
ENDRIN		0.048	UJ	R	0.054	U	
GAMMA-BHC (LINDANE)		0.024	UJ	R	0.027	U	
GAMMA-CHLORDANE		0.024	UJ	R	0.027	U	
HEPTACHLOR		0.024	UJ	R	0.027	U	
HEPTACHLOR EPOXIDE		0.024	UJ	R	0.027	U	
HEXACHLOROBENZENE		0.048	UJ	R	0.054	U	
MIREX		0.048	UJ	R	0.054	U	
OXYCHLORDANE		0.048	UJ	R	0.054	U	
TRANS-NONACHLOR		0.048	UJ	R	0.054	U	

PROJ_NO: 02225	NSAMPLE	OU4-SD-FD-041911-03			OU4-SD-M07-111B			OU4-SD-M07-211B			OU4-SD-M07-311B		
SDG: WE29-1	LAB_ID	SE2074-28			SE2074-26			SE2074-14			SE2074-15		
FRACTION: PEST	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	65.4			65.5			33.7			34.7		
	DUP_OF	OU4-SD-M07-111B											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
2,4'-DDD		2.3	U		2.2	U		4.8	U		4.6	U	
2,4'-DDE		2.3	U		2.2	U		4.8	U		4.6	U	
2,4'-DDT		0.61	J	P	2.2	U		4.8	U		4.6	U	
4,4'-DDD		1.5	J	P	2.2	J	P	2.6	J	PU	4.6	U	
4,4'-DDE		1.6	J	P	1.9	J	P	4.8	U		4.6	U	
4,4'-DDT		1.6	J	P	3.2	J	P	4.8	U		4.6	U	
ALDRIN		1.2	U		1.1	U		2.5	U		2.4	U	
ALPHA-BHC		1.2	U		1.1	U		2.5	U		2.4	U	
ALPHA-CHLORDANE		1.2	U		1.1	U		2.5	U		2.4	U	
BETA-BHC		1.2	U		1.1	U		2.5	U		2.4	U	
CIS-NONACHLOR		2.3	U		2.2	U		4.8	U		4.6	U	
DELTA-BHC		1.2	UJ	C	1.1	UJ	C	2.5	UJ	C	2.4	UJ	C
DIELDRIN		2.3	U		2.2	U		4.8	U		4.6	U	
ENDOSULFAN II		2.3	U		2.2	U		4.8	U		4.6	U	
ENDRIN		2.3	UJ	C	2.2	UJ	C	4.8	UJ	C	4.6	UJ	C
GAMMA-BHC (LINDANE)		1.2	U		1.1	U		2.5	U		2.4	U	
GAMMA-CHLORDANE		1.2	U		1.1	U		2.5	U		2.4	U	
HEPTACHLOR		1.2	U		1.1	U		2.5	U		2.4	U	
HEPTACHLOR EPOXIDE		0.7	J	P	0.64	J	P	2.5	U		2.4	U	
HEXACHLOROBENZENE		2.3	U		2.2	U		4.8	U		4.6	U	
MIREX		2.3	U		2.2	U		4.8	U		4.6	U	
OXYCHLORDANE		2.3	U		2.2	U		4.8	U		4.6	U	
TRANS-NONACHLOR		2.3	U		2.2	U		4.8	U		4.6	U	

PROJ_NO: 02225 SDG: WE29-1 FRACTION: PEST MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M08-111B			OU4-SD-M08-211B			OU4-SD-M08-311B			OU4-SD-M09-111B		
	LAB_ID	SE2074-29			SE2074-13			SE2074-27			SE2074-30		
	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/KG			UG/KG			UG/KG			UG/KG		
	PCT_SOLIDS	67.6			52.8			68.7			27.9		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
2,4'-DDD		6	J	D	3.1	U		2.3	U		5.6	UJ	Y
2,4'-DDE		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
2,4'-DDT		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
4,4'-DDD		16			44			4.2	J	P	7	J	PUY
4,4'-DDE		2.8	J	PU	7	J	PU	0.92	J	P	3.9	J	PUY
4,4'-DDT		2.7	J	P	16			2.3	U		4.1	J	PUY
ALDRIN		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
ALPHA-BHC		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
ALPHA-CHLORDANE		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
BETA-BHC		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
CIS-NONACHLOR		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
DELTA-BHC		1.2	UJ	C	1.6	UJ	C	1.2	UJ	C	2.9	UJ	CY
DIELDRIN		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
ENDOSULFAN II		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
ENDRIN		2.4	UJ	C	3.1	UJ	C	2.3	UJ	C	5.6	UJ	CY
GAMMA-BHC (LINDANE)		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
GAMMA-CHLORDANE		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
HEPTACHLOR		1.2	U		1.6	U		1.2	U		2.9	UJ	Y
HEPTACHLOR EPOXIDE		0.7	J	P	1.7	J	PU	1.2	U		2.9	UJ	Y
HEXACHLOROBENZENE		0.6	J	P	3.1	U		2.3	U		5.6	UJ	Y
MIREX		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
OXYCHLORDANE		2.4	U		3.1	U		2.3	U		5.6	UJ	Y
TRANS-NONACHLOR		2.4	U		3.1	U		2.3	U		5.6	UJ	Y

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PROJ_NO: 02225 SDG: WE29-1 FRACTION: PEST MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M09-211B			OU4-SD-M09-311B		
	LAB_ID	SE2074-11			SE2074-12		
	SAMP_DATE	4/19/2011			4/19/2011		
	QC_TYPE	NM			NM		
	UNITS	UG/KG			UG/KG		
	PCT_SOLIDS	27.6			26.6		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
2,4'-DDD		5.9	UJ	Y	6	UJ	Y
2,4'-DDE		5.9	UJ	Y	6	UJ	Y
2,4'-DDT		5.9	UJ	Y	6	UJ	Y
4,4'-DDD		5.9	UJ	Y	5	J	PUY
4,4'-DDE		5.9	UJ	Y	3	J	PUY
4,4'-DDT		5.9	UJ	Y	6	UJ	Y
ALDRIN		3	UJ	Y	3.1	UJ	Y
ALPHA-BHC		3	UJ	Y	3.1	UJ	Y
ALPHA-CHLORDANE		3	UJ	Y	3.1	UJ	Y
BETA-BHC		3	UJ	Y	3.1	UJ	Y
CIS-NONACHLOR		5.9	UJ	Y	6	UJ	Y
DELTA-BHC		3	UJ	CY	3.1	UJ	CY
DIELDRIN		5.9	UJ	Y	6	UJ	Y
ENDOSULFAN II		5.9	UJ	Y	6	UJ	Y
ENDRIN		5.9	UJ	CY	6	UJ	CY
GAMMA-BHC (LINDANE)		3	UJ	Y	3.1	UJ	Y
GAMMA-CHLORDANE		3	UJ	Y	3.1	UJ	Y
HEPTACHLOR		3	UJ	Y	3.1	UJ	Y
HEPTACHLOR EPOXIDE		3	UJ	Y	3.1	UJ	Y
HEXACHLOROBENZENE		2.1	J	PY	6	UJ	Y
MIREX		5.9	UJ	Y	6	UJ	Y
OXYCHLORDANE		5.9	UJ	Y	6	UJ	Y
TRANS-NONACHLOR		5.9	UJ	Y	6	UJ	Y

PROJ_NO: 02225	NSAMPLE	OU4-RB-042011-01			OU4-SB-042011-01		
SDG: WE29-1	LAB_ID	31100958013			31100958014		
FRACTION: DIOX	SAMP_DATE	4/20/2011			4/20/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	NG/L			NG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,2,3,4,6,7,8,9-OCDD		0.00514	U		0.00458	U	
1,2,3,4,6,7,8,9-OCDF		0.0044	U		0.00531	U	
1,2,3,4,6,7,8-HPCDD		0.00387	U		0.0035	U	
1,2,3,4,6,7,8-HPCDF		0.00225	U		0.00226	U	
1,2,3,4,7,8,9-HPCDF		0.00327	U		0.00332	U	
1,2,3,4,7,8-HXCDD		0.00302	U		0.00261	U	
1,2,3,4,7,8-HXCDF		0.00254	U		0.00209	U	
1,2,3,6,7,8-HXCDD		0.00323	U		0.00289	U	
1,2,3,6,7,8-HXCDF		0.00234	U		0.002	U	
1,2,3,7,8,9-HXCDD		0.00327	U		0.00287	U	
1,2,3,7,8,9-HXCDF		0.00333	U		0.00286	U	
1,2,3,7,8-PECDD		0.00247	U		0.00244	U	
1,2,3,7,8-PECDF		0.00201	U		0.00208	U	
2,3,4,6,7,8-HXCDF		0.0024	U		0.0021	U	
2,3,4,7,8-PECDF		0.00197	U		0.00196	U	
2,3,7,8-TCDD		0.00527	U		0.00414	U	
2,3,7,8-TCDF		0.00577	U		0.00455	U	
TOTAL HPCDD		0.00387	U		0.0035	U	
TOTAL HPCDF		0.00327	U		0.00332	U	
TOTAL HXCDD		0.00327	U		0.00289	U	
TOTAL HXCDF		0.00333	U		0.00286	U	
TOTAL PECDD		0.00247	U		0.00244	U	
TOTAL PECDF		0.00201	U		0.00208	U	
TOTAL TCDD		0.00527	U		0.00414	U	
TOTAL TCDF		0.00577	U		0.00455	U	

PROJ_NO: 02225	NSAMPLE	OU4-SD-FD-041911-03			OU4-SD-M07-111B			OU4-SD-M07-211B			OU4-SD-M07-311B		
SDG: WE29-1	LAB_ID	31100958008			31100958006			31100958004			31100958005		
FRACTION: DIOX	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/KG			NG/KG			NG/KG			NG/KG		
	PCT_SOLIDS	65.4			65.5			33.7			34.7		
	DUP_OF	OU4-SD-M07-111B											
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,2,3,4,6,7,8,9-OCDD		266			239			325			675		
1,2,3,4,6,7,8,9-OCDF		14.7			13.2			27			91.8		
1,2,3,4,6,7,8-HPCDD		28.7			23.8			44.6			68.2		
1,2,3,4,6,7,8-HPCDF		7.79			6.79			12.7			15.6		
1,2,3,4,7,8,9-HPCDF		0.513	U		0.245	J	PW	0.541	J	PW	0.79	J	P
1,2,3,4,7,8-HXCDD		0.315	J	PW	0.358	J	PW	0.562	J	PW	0.586	J	PW
1,2,3,4,7,8-HXCDF		0.632	U	A	0.495	U	A	0.88	J	PW	0.821	J	PW
1,2,3,6,7,8-HXCDD		1.4	J	PW	1.14	J	P	2.14	J	P	2.17	J	P
1,2,3,6,7,8-HXCDF		0.57	J	P	0.42	J	P	0.62	U	A	0.526	U	A
1,2,3,7,8,9-HXCDD		0.714	U		0.821	U	A	1.48	J	P	1.3	U	A
1,2,3,7,8,9-HXCDF		0.672	U		0.211	U		0.541	U		0.618	U	
1,2,3,7,8-PECDD		0.686	U		0.241	U		0.425	J	PW	0.477	J	P
1,2,3,7,8-PECDF		0.315	U		0.268	J	PW	0.473	J	PW	0.37	U	A
2,3,4,6,7,8-HXCDF		0.741	U	A	0.651	J	P	0.869	U	A	0.969	U	A
2,3,4,7,8-PECDF		0.679	J	PW	0.5	J	PW	1.02	U	A	0.868	U	A
2,3,7,8-TCDD		0.424	U		0.167	U		0.311	U		0.29	U	
2,3,7,8-TCDF		0.869	U	A	0.812	U	A	1.3	U	A	1.42	U	A
TOTAL HPCDD		83.4			69.5			120			169		
TOTAL HPCDF		21.4			20.5	J	W	44.3	J	W	67.5	J	W
TOTAL HXCDD		13	J	W	12.9	J	W	21.1	J	W	22.2	J	W
TOTAL HXCDF		7.99	U	A	8.02	U	A	13.9	U	A	13.6	U	A
TOTAL PECDD		3.14	J	W	2.75	J	W	4.41	J	W	4.76		
TOTAL PECDF		5.11	J	W	4.09	J	W	6.84	J	W	6.49	J	W
TOTAL TCDD		1.59			1.52			1.61	J	W	3.08	J	W
TOTAL TCDF		1.9	U	A	3.34	U	A	4.23	U	A	5.07	U	A

PROJ_NO: 02225	NSAMPLE	OU4-SD-M08-111B			OU4-SD-M08-211B			OU4-SD-M08-311B			OU4-SD-M09-111B		
SDG: WE29-1	LAB_ID	31100958009			31100958003			31100958007			31100958012		
FRACTION: DIOX	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	NG/KG			NG/KG			NG/KG			NG/KG		
	PCT_SOLIDS	67.6			52.8			68.7			27.9		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,2,3,4,6,7,8,9-OCDD		117			378			109			475	J	Y
1,2,3,4,6,7,8,9-OCDF		7.99			30			7.22			34.2	J	Y
1,2,3,4,6,7,8-HPCDD		15.7			56.9			13.6			62.1	J	Y
1,2,3,4,6,7,8-HPCDF		5.28	J	W	22.3			4.45			20.2	J	Y
1,2,3,4,7,8,9-HPCDF		0.519	U		1.52	J	P	0.256	J	P	1.56	J	PY
1,2,3,4,7,8-HXCDD		0.622	U		1.04	J	PW	0.21	J	PW	1.08	UJ	Y
1,2,3,4,7,8-HXCDF		0.49	U	A	3.32	U	A	0.408	J	PW	2.94	U	A
1,2,3,6,7,8-HXCDD		0.659	U		3.11			0.777	J	PW	3.43	J	PY
1,2,3,6,7,8-HXCDF		0.503	J	P	2.76			0.352	U	A	2.18	J	PY
1,2,3,7,8,9-HXCDD		0.669	U		1.68	J	P	0.527	J	P	1.81	J	PY
1,2,3,7,8,9-HXCDF		0.591	U		0.926	J	P	0.204	U		0.914	UJ	Y
1,2,3,7,8-PECDD		0.357	U		0.975	J	P	0.238	J	P	0.935	UJ	Y
1,2,3,7,8-PECDF		0.517	U		1.47	J	PW	0.222	J	PW	1.85	J	PWY
2,3,4,6,7,8-HXCDF		0.63	J	P	3.53			0.674	J	P	3.16	J	PY
2,3,4,7,8-PECDF		0.683	U	A	3.92			0.746	U	A	3.22	U	A
2,3,7,8-TCDD		0.415	U		0.231	U		0.166	U		0.791	UJ	Y
2,3,7,8-TCDF		0.864	U	A	2.41	U	A	0.686	U	A	2.94	U	A
TOTAL HPCDD		47.6			157			37.5			225	J	Y
TOTAL HPCDF		10.8	J	W	58.9	J	W	12.8			59.1	J	Y
TOTAL HXCDD		6.39			34.4	J	W	8.06	J	W	33.6	J	WY
TOTAL HXCDF		6.59	U	A	37.6	J	W	7.43	U	A	28.9	J	Y
TOTAL PECDD		1.25	J	PW	16.1	J	W	2.08	J	W	10.4	J	WY
TOTAL PECDF		4.45	J	W	29.8	J	W	4.78	J	W	27	J	WY
TOTAL TCDD		0.918			7.59	J	W	0.881	J	W	3.7	J	Y
TOTAL TCDF		2.99	U	A	27.6	J	W	3.12	U	A	26.3	J	WY

PROJ_NO: 02225	NSAMPLE	OU4-SD-M09-211B			OU4-SD-M09-311B		
SDG: WE29-1	LAB_ID	31100958001			31100958002		
FRACTION: DIOX	SAMP_DATE	4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM		
	UNITS	NG/KG			NG/KG		
	PCT_SOLIDS	27.6			26.6		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,2,3,4,6,7,8,9-OCDD		1720	J	Y	511	J	Y
1,2,3,4,6,7,8,9-OCDF		106	J	Y	32.4	J	Y
1,2,3,4,6,7,8-HPCDD		218	J	Y	67.4	J	Y
1,2,3,4,6,7,8-HPCDF		72.9	J	Y	22.4	J	Y
1,2,3,4,7,8,9-HPCDF		5.33	J	WY	1.32	J	PY
1,2,3,4,7,8-HXCDD		4.76	J	Y	1.22	J	PY
1,2,3,4,7,8-HXCDF		7.36	J	Y	3.14	J	PWY
1,2,3,6,7,8-HXCDD		9.31	J	Y	3.87	J	PY
1,2,3,6,7,8-HXCDF		6.09	J	Y	2.38	J	PY
1,2,3,7,8,9-HXCDD		5.86	J	Y	2.4	U	A
1,2,3,7,8,9-HXCDF		2.13	J	PY	1.02	J	PY
1,2,3,7,8-PECDD		2.93	J	PWY	0.78	J	PY
1,2,3,7,8-PECDF		3.57	U	A	2.43	UJ	QY
2,3,4,6,7,8-HXCDF		8.61	J	Y	3.48	J	PY
2,3,4,7,8-PECDF		7.38	U	A	3.57	U	A
2,3,7,8-TCDD		0.607	J	PWY	0.679	UJ	Y
2,3,7,8-TCDF		4.81	U	A	2.8	U	A
TOTAL HPCDD		611	J	Y	197	J	Y
TOTAL HPCDF		204	J	WY	62.5	J	Y
TOTAL HXCDD		119	J	WY	42.2	J	WY
TOTAL HXCDF		93.8	J	WY	36.4	J	WY
TOTAL PECDD		38.9	J	WY	14.3	J	WY
TOTAL PECDF		65.7	J	WY	26.6	J	WY
TOTAL TCDD		18.9	J	WY	5.83	J	WY
TOTAL TCDF		57.4	J	WY	33	J	WY

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-32
Client ID: OU4-RB-042011-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 22-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90525

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: AQ
% Solids: NA
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	0.095	ug/L	1	.2	0.19	0.061	0.095
Acenaphthylene	U	0.095	ug/L	1	.2	0.19	0.051	0.095
Acenaphthene	U	0.095	ug/L	1	.2	0.19	0.061	0.095
Fluorene	U	0.095	ug/L	1	.2	0.19	0.058	0.095
Phenanthrene	U	0.095	ug/L	1	.2	0.19	0.048	0.095
Anthracene	U	0.095	ug/L	1	.2	0.19	0.042	0.095
Fluoranthene	U	0.095	ug/L	1	.2	0.19	0.070	0.095
Pyrene	U	0.095	ug/L	1	.2	0.19	0.056	0.095
Benzo (a) anthracene	U	0.095	ug/L	1	.2	0.19	0.044	0.095
Chrysene	U	0.095	ug/L	1	.2	0.19	0.034	0.095
Benzo (b) Fluoranthene	U	0.095	ug/L	1	.2	0.19	0.085	0.095
Benzo(k)fluoranthene	U	0.095	ug/L	1	.2	0.19	0.047	0.095
Benzo(a)pyrene	U	0.095	ug/L	1	.2	0.19	0.063	0.095
Indeno (1,2,3-cd) pyrene	U	0.095	ug/L	1	.2	0.19	0.050	0.095
Dibenzo (a,h) anthracene	U	0.095	ug/L	1	.2	0.19	0.067	0.095
Benzo(g,h,i)perylene	U	0.095	ug/L	1	.2	0.19	0.062	0.095
1,1'-Biphenyl	U	0.095	ug/L	1	.2	0.19	0.062	0.095
Perylene	U	0.095	ug/L	1	.2	0.19	0.068	0.095
Dibenzothiophene	U	0.095	ug/L	1	.2	0.19	0.036	0.095
2-Methylnaphthalene-D10		67.1	%					
Fluorene-D10		66.8	%					
pyrene-d10		88.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-33
Client ID: OU4-SB-042011-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 22-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90525

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: AQ
% Solids: NA
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	0.097	ug/L	1	.2	0.19	0.062	0.097
Acenaphthylene	U	0.097	ug/L	1	.2	0.19	0.052	0.097
Acenaphthene	U	0.097	ug/L	1	.2	0.19	0.062	0.097
Fluorene	U	0.097	ug/L	1	.2	0.19	0.059	0.097
Phenanthrene	U	0.097	ug/L	1	.2	0.19	0.050	0.097
Anthracene	U	0.097	ug/L	1	.2	0.19	0.043	0.097
Fluoranthene	U	0.097	ug/L	1	.2	0.19	0.071	0.097
Pyrene	U	0.097	ug/L	1	.2	0.19	0.057	0.097
Benzo (a) anthracene	U	0.097	ug/L	1	.2	0.19	0.045	0.097
Chrysene	U	0.097	ug/L	1	.2	0.19	0.035	0.097
Benzo (b) Fluoranthene	U	0.097	ug/L	1	.2	0.19	0.086	0.097
Benzo(k)fluoranthene	U	0.097	ug/L	1	.2	0.19	0.048	0.097
Benzo(a)pyrene	U	0.097	ug/L	1	.2	0.19	0.064	0.097
Indeno (1,2,3-cd) pyrene	U	0.097	ug/L	1	.2	0.19	0.050	0.097
Dibenzo (a,h) anthracene	U	0.097	ug/L	1	.2	0.19	0.068	0.097
Benzo(g,h,i)perylene	U	0.097	ug/L	1	.2	0.19	0.063	0.097
1,1'-Biphenyl	U	0.097	ug/L	1	.2	0.19	0.063	0.097
Perylene	U	0.097	ug/L	1	.2	0.19	0.070	0.097
Dibenzothiophene	U	0.097	ug/L	1	.2	0.19	0.037	0.097
2-Methylnaphthalene-D10		65.0	%					
Fluorene-D10		65.3	%					
pyrene-d10		84.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-10
Client ID: OU4-FD-041911-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 79.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		33.	ug/Kgdrywt	1	20	24.	3.1	12.
Acenaphthylene	J	21.	ug/Kgdrywt	1	20	24.	1.4	12.
Acenaphthene	J	8.4	ug/Kgdrywt	1	20	24.	1.8	12.
Fluorene		31.	ug/Kgdrywt	1	20	24.	3.8	12.
Phenanthrene	E	350	ug/Kgdrywt	1	20	24.	2.2	12.
Anthracene		32.	ug/Kgdrywt	1	20	24.	1.4	12.
Fluoranthene		310	ug/Kgdrywt	1	20	24.	2.2	12.
Pyrene	E	830	ug/Kgdrywt	1	20	24.	2.5	12.
Benzo (a) anthracene		200	ug/Kgdrywt	1	20	24.	2.3	12.
Chrysene		260	ug/Kgdrywt	1	20	24.	2.0	12.
Benzo (b) Fluoranthene		300	ug/Kgdrywt	1	20	24.	2.9	12.
Benzo(k)fluoranthene		80.	ug/Kgdrywt	1	20	24.	3.7	12.
Benzo(a)pyrene		290	ug/Kgdrywt	1	20	24.	4.0	12.
Indeno (1,2,3-cd) pyrene		160	ug/Kgdrywt	1	20	24.	2.3	12.
Dibenzo (a,h) anthracene		43.	ug/Kgdrywt	1	20	24.	2.2	12.
Benzo(g,h,i)perylene		190	ug/Kgdrywt	1	20	24.	2.4	12.
1,1'-Biphenyl	J	5.9	ug/Kgdrywt	1	20	24.	1.3	12.
Perylene		41.	ug/Kgdrywt	1	20	24.	0.98	12.
Dibenzothiophene	U	12.	ug/Kgdrywt	1	20	24.	0.56	12.
2-Methylnaphthalene-D10		53.4	%					
Fluorene-D10		55.9	%					
Pyrene-D10		87.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-10DL
Client ID: OU4-FD-041911-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 79.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	27.	ug/Kgdrywt	5	20	120	16.	60.
Acenaphthylene	J	22.	ug/Kgdrywt	5	20	120	7.2	60.
Acenaphthene	J	10.	ug/Kgdrywt	5	20	120	9.0	60.
Fluorene	J	36.	ug/Kgdrywt	5	20	120	19.	60.
Phenanthrene		410	ug/Kgdrywt	5	20	120	11.	60.
Anthracene	J	38.	ug/Kgdrywt	5	20	120	7.2	60.
Fluoranthene		350	ug/Kgdrywt	5	20	120	11.	60.
Pyrene		950	ug/Kgdrywt	5	20	120	12.	60.
Benzo (a) anthracene		250	ug/Kgdrywt	5	20	120	11.	60.
Chrysene		330	ug/Kgdrywt	5	20	120	10.	60.
Benzo (b) Fluoranthene		320	ug/Kgdrywt	5	20	120	14.	60.
Benzo(k)fluoranthene	J	100	ug/Kgdrywt	5	20	120	18.	60.
Benzo(a)pyrene		350	ug/Kgdrywt	5	20	120	20.	60.
Indeno (1,2,3-cd) pyrene		200	ug/Kgdrywt	5	20	120	11.	60.
Dibenzo (a,h) anthracene	J	53.	ug/Kgdrywt	5	20	120	11.	60.
Benzo(g,h,i)perylene		250	ug/Kgdrywt	5	20	120	12.	60.
1,1'-Biphenyl	U	60.	ug/Kgdrywt	5	20	120	6.6	60.
Perylene	U	60.	ug/Kgdrywt	5	20	120	4.9	60.
Dibenzothiophene	U	60.	ug/Kgdrywt	5	20	120	2.8	60.
2-Methylnaphthalene-D10		59.4	%					
Fluorene-D10		29.7	%					
Pyrene-D10		107.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-25
Client ID: OU4-FD-041911-02
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 54.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	9.0	ug/Kgdrywt	1	20	37.	4.8	18.
Acenaphthylene	J	6.2	ug/Kgdrywt	1	20	37.	2.2	18.
Acenaphthene	J	13.	ug/Kgdrywt	1	20	37.	2.8	18.
Fluorene	J	19.	ug/Kgdrywt	1	20	37.	5.9	18.
Phenanthrene		170	ug/Kgdrywt	1	20	37.	3.3	18.
Anthracene		42.	ug/Kgdrywt	1	20	37.	2.2	18.
Fluoranthene		350	ug/Kgdrywt	1	20	37.	3.3	18.
Pyrene		460	ug/Kgdrywt	1	20	37.	3.8	18.
Benzo (a) anthracene		170	ug/Kgdrywt	1	20	37.	3.5	18.
Chrysene		200	ug/Kgdrywt	1	20	37.	3.1	18.
Benzo (b) Fluoranthene		250	ug/Kgdrywt	1	20	37.	4.4	18.
Benzo(k)fluoranthene		97.	ug/Kgdrywt	1	20	37.	5.7	18.
Benzo(a)pyrene		190	ug/Kgdrywt	1	20	37.	6.0	18.
Indeno (1,2,3-cd) pyrene		130	ug/Kgdrywt	1	20	37.	3.5	18.
Dibenzo (a,h) anthracene	J	34.	ug/Kgdrywt	1	20	37.	3.3	18.
Benzo(g,h,i)perylene		98.	ug/Kgdrywt	1	20	37.	3.7	18.
1,1'-Biphenyl	J	2.7	ug/Kgdrywt	1	20	37.	2.0	18.
Perylene		44.	ug/Kgdrywt	1	20	37.	1.5	18.
Dibenzothiophene	U	18.	ug/Kgdrywt	1	20	37.	0.86	18.
2-Methylnaphthalene-D10		43.9	%					
Fluorene-D10		47.4	%					
Pyrene-D10		80.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-28
Client ID: OU4-SD-FD-041911-03
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 65.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	14.	ug/Kgdrywt	1	20	29.	3.8	14.
Acenaphthylene	J	1.9	ug/Kgdrywt	1	20	29.	1.7	14.
Acenaphthene	U	14.	ug/Kgdrywt	1	20	29.	2.2	14.
Fluorene	U	14.	ug/Kgdrywt	1	20	29.	4.6	14.
Phenanthrene		59.	ug/Kgdrywt	1	20	29.	2.6	14.
Anthracene	J	9.6	ug/Kgdrywt	1	20	29.	1.7	14.
Fluoranthene		140	ug/Kgdrywt	1	20	29.	2.6	14.
Pyrene		210	ug/Kgdrywt	1	20	29.	3.0	14.
Benzo (a) anthracene		61.	ug/Kgdrywt	1	20	29.	2.7	14.
Chrysene		80.	ug/Kgdrywt	1	20	29.	2.4	14.
Benzo (b) Fluoranthene		100	ug/Kgdrywt	1	20	29.	3.5	14.
Benzo(k)fluoranthene		35.	ug/Kgdrywt	1	20	29.	4.5	14.
Benzo(a)pyrene		74.	ug/Kgdrywt	1	20	29.	4.8	14.
Indeno (1,2,3-cd) pyrene		60.	ug/Kgdrywt	1	20	29.	2.7	14.
Dibenzo (a,h) anthracene	J	15.	ug/Kgdrywt	1	20	29.	2.6	14.
Benzo(g,h,i)perylene		48.	ug/Kgdrywt	1	20	29.	2.9	14.
1,1'-Biphenyl	U	14.	ug/Kgdrywt	1	20	29.	1.6	14.
Perylene	U	14.	ug/Kgdrywt	1	20	29.	1.2	14.
Dibenzothiophene	U	14.	ug/Kgdrywt	1	20	29.	0.68	14.
2-Methylnaphthalene-D10		44.6	%					
Fluorene-D10		48.0	%					
Pyrene-D10		98.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-7
Client ID: OU4-SD-M01-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 85.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		57.	ug/Kgdrywt	1	20	22.	2.8	11.
Acenaphthylene	J	12.	ug/Kgdrywt	1	20	22.	1.3	11.
Acenaphthene		37.	ug/Kgdrywt	1	20	22.	1.6	11.
Fluorene		52.	ug/Kgdrywt	1	20	22.	3.5	11.
Phenanthrene	E	420	ug/Kgdrywt	1	20	22.	2.0	11.
Anthracene		68.	ug/Kgdrywt	1	20	22.	1.3	11.
Fluoranthene	E	600	ug/Kgdrywt	1	20	22.	2.0	11.
Pyrene	E	800	ug/Kgdrywt	1	20	22.	2.3	11.
Benzo (a) anthracene	E	300	ug/Kgdrywt	1	20	22.	2.1	11.
Chrysene	E	340	ug/Kgdrywt	1	20	22.	1.8	11.
Benzo (b) Fluoranthene	E	410	ug/Kgdrywt	1	20	22.	2.6	11.
Benzo(k)fluoranthene		120	ug/Kgdrywt	1	20	22.	3.4	11.
Benzo(a)pyrene	E	330	ug/Kgdrywt	1	20	22.	3.6	11.
Indeno (1,2,3-cd) pyrene		200	ug/Kgdrywt	1	20	22.	2.1	11.
Dibenzo (a,h) anthracene		58.	ug/Kgdrywt	1	20	22.	2.0	11.
Benzo(g,h,i)perylene		190	ug/Kgdrywt	1	20	22.	2.2	11.
1,1'-Biphenyl	J	5.5	ug/Kgdrywt	1	20	22.	1.2	11.
Perylene		58.	ug/Kgdrywt	1	20	22.	0.89	11.
Dibenzothiophene	U	11.	ug/Kgdrywt	1	20	22.	0.51	11.
2-Methylnaphthalene-D10		55.2	%					
Fluorene-D10		62.8	%					
Pyrene-D10		108.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-7DL
Client ID: OU4-SD-M01-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 85.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	55.	ug/Kgdrywt	4	20	87.	11.	44.
Acenaphthylene	J	13.	ug/Kgdrywt	4	20	87.	5.2	44.
Acenaphthene	J	36.	ug/Kgdrywt	4	20	87.	6.5	44.
Fluorene	J	49.	ug/Kgdrywt	4	20	87.	14.	44.
Phenanthrene		380	ug/Kgdrywt	4	20	87.	7.8	44.
Anthracene	J	67.	ug/Kgdrywt	4	20	87.	5.2	44.
Fluoranthene		510	ug/Kgdrywt	4	20	87.	7.8	44.
Pyrene		660	ug/Kgdrywt	4	20	87.	9.2	44.
Benzo (a) anthracene		290	ug/Kgdrywt	4	20	87.	8.3	44.
Chrysene		330	ug/Kgdrywt	4	20	87.	7.4	44.
Benzo (b) Fluoranthene		380	ug/Kgdrywt	4	20	87.	10.	44.
Benzo(k)fluoranthene		130	ug/Kgdrywt	4	20	87.	14.	44.
Benzo(a)pyrene		320	ug/Kgdrywt	4	20	87.	14.	44.
Indeno (1,2,3-cd) pyrene		200	ug/Kgdrywt	4	20	87.	8.3	44.
Dibenzo (a,h) anthracene	J	59.	ug/Kgdrywt	4	20	87.	7.8	44.
Benzo(g,h,i)perylene		190	ug/Kgdrywt	4	20	87.	8.7	44.
1,1'-Biphenyl	J	5.5	ug/Kgdrywt	4	20	87.	4.8	44.
Perylene	U	44.	ug/Kgdrywt	4	20	87.	3.6	44.
Dibenzothiophene	U	44.	ug/Kgdrywt	4	20	87.	2.0	44.
2-Methylnaphthalene-D10		51.5	%					
Fluorene-D10		28.8	%					
Pyrene-D10		93.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-8
Client ID: OU4-SD-M01-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 69.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		50.	ug/Kgdrywt	1	20	26.	3.3	13.
Acenaphthylene	J	23.	ug/Kgdrywt	1	20	26.	1.5	13.
Acenaphthene	J	6.7	ug/Kgdrywt	1	20	26.	1.9	13.
Fluorene	J	15.	ug/Kgdrywt	1	20	26.	4.1	13.
Phenanthrene		130	ug/Kgdrywt	1	20	26.	2.3	13.
Anthracene		37.	ug/Kgdrywt	1	20	26.	1.5	13.
Fluoranthene	E	370	ug/Kgdrywt	1	20	26.	2.3	13.
Pyrene	E	780	ug/Kgdrywt	1	20	26.	2.7	13.
Benzo (a) anthracene		310	ug/Kgdrywt	1	20	26.	2.4	13.
Chrysene	E	370	ug/Kgdrywt	1	20	26.	2.2	13.
Benzo (b) Fluoranthene	E	520	ug/Kgdrywt	1	20	26.	3.1	13.
Benzo(k)fluoranthene		140	ug/Kgdrywt	1	20	26.	4.0	13.
Benzo(a)pyrene	E	460	ug/Kgdrywt	1	20	26.	4.2	13.
Indeno (1,2,3-cd) pyrene		230	ug/Kgdrywt	1	20	26.	2.4	13.
Dibenzo (a,h) anthracene		68.	ug/Kgdrywt	1	20	26.	2.3	13.
Benzo(g,h,i)perylene		230	ug/Kgdrywt	1	20	26.	2.6	13.
1,1'-Biphenyl	J	9.5	ug/Kgdrywt	1	20	26.	1.4	13.
Perylene		73.	ug/Kgdrywt	1	20	26.	1.0	13.
Dibenzothiophene	U	13.	ug/Kgdrywt	1	20	26.	0.60	13.
2-Methylnaphthalene-D10		56.6	%					
Fluorene-D10		70.8	%					
Pyrene-D10		104.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-8DL
Client ID: OU4-SD-M01-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 69.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	34.	ug/Kgdrywt	5	20	130	17.	64.
Acenaphthylene	J	22.	ug/Kgdrywt	5	20	130	7.7	64.
Acenaphthene	U	64.	ug/Kgdrywt	5	20	130	9.6	64.
Fluorene	U	64.	ug/Kgdrywt	5	20	130	20.	64.
Phenanthrene	J	120	ug/Kgdrywt	5	20	130	12.	64.
Anthracene	J	36.	ug/Kgdrywt	5	20	130	7.7	64.
Fluoranthene		360	ug/Kgdrywt	5	20	130	12.	64.
Pyrene		690	ug/Kgdrywt	5	20	130	14.	64.
Benzo (a) anthracene		320	ug/Kgdrywt	5	20	130	12.	64.
Chrysene		380	ug/Kgdrywt	5	20	130	11.	64.
Benzo (b) Fluoranthene		460	ug/Kgdrywt	5	20	130	15.	64.
Benzo(k)fluoranthene		150	ug/Kgdrywt	5	20	130	20.	64.
Benzo(a)pyrene		460	ug/Kgdrywt	5	20	130	21.	64.
Indeno (1,2,3-cd) pyrene		270	ug/Kgdrywt	5	20	130	12.	64.
Dibenzo (a,h) anthracene	J	85.	ug/Kgdrywt	5	20	130	12.	64.
Benzo(g,h,i)perylene		290	ug/Kgdrywt	5	20	130	13.	64.
1,1'-Biphenyl	J	8.5	ug/Kgdrywt	5	20	130	7.1	64.
Perylene	U	64.	ug/Kgdrywt	5	20	130	5.3	64.
Dibenzothiophene	U	64.	ug/Kgdrywt	5	20	130	3.0	64.
2-Methylnaphthalene-D10		52.6	%					
Fluorene-D10		25.3	%					
Pyrene-D10		96.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-9
Client ID: OU4-SD-M01-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 62.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		87.	ug/Kgdrywt	1	20	31.	4.0	15.
Acenaphthylene		34.	ug/Kgdrywt	1	20	31.	1.8	15.
Acenaphthene		83.	ug/Kgdrywt	1	20	31.	2.3	15.
Fluorene		110	ug/Kgdrywt	1	20	31.	4.9	15.
Phenanthrene	E	960	ug/Kgdrywt	1	20	31.	2.8	15.
Anthracene		210	ug/Kgdrywt	1	20	31.	1.8	15.
Fluoranthene	E	1400	ug/Kgdrywt	1	20	31.	2.8	15.
Pyrene	E	2800	ug/Kgdrywt	1	20	31.	3.2	15.
Benzo (a) anthracene	E	950	ug/Kgdrywt	1	20	31.	2.9	15.
Chrysene	E	940	ug/Kgdrywt	1	20	31.	2.6	15.
Benzo (b) Fluoranthene	E	1100	ug/Kgdrywt	1	20	31.	3.7	15.
Benzo(k)fluoranthene		350	ug/Kgdrywt	1	20	31.	4.8	15.
Benzo(a)pyrene	E	970	ug/Kgdrywt	1	20	31.	5.1	15.
Indeno (1,2,3-cd) pyrene	E	550	ug/Kgdrywt	1	20	31.	2.9	15.
Dibenzo (a,h) anthracene		150	ug/Kgdrywt	1	20	31.	2.8	15.
Benzo(g,h,i)perylene	E	500	ug/Kgdrywt	1	20	31.	3.1	15.
1,1'-Biphenyl	J	12.	ug/Kgdrywt	1	20	31.	1.7	15.
Perylene		180	ug/Kgdrywt	1	20	31.	1.3	15.
Dibenzothiophene		50.	ug/Kgdrywt	1	20	31.	0.72	15.
2-Methylnaphthalene-D10		57.7	%					
Fluorene-D10		62.2	%					
Pyrene-D10		117.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-9DL
Client ID: OU4-SD-M01-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 62.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	62.	ug/Kgdrywt	15	20	460	60.	230
Acenaphthylene	J	44.	ug/Kgdrywt	15	20	460	28.	230
Acenaphthene	J	91.	ug/Kgdrywt	15	20	460	35.	230
Fluorene	J	130	ug/Kgdrywt	15	20	460	74.	230
Phenanthrene		960	ug/Kgdrywt	15	20	460	42.	230
Anthracene	J	230	ug/Kgdrywt	15	20	460	28.	230
Fluoranthene		1700	ug/Kgdrywt	15	20	460	42.	230
Pyrene		2100	ug/Kgdrywt	15	20	460	48.	230
Benzo (a) anthracene		970	ug/Kgdrywt	15	20	460	44.	230
Chrysene		1000	ug/Kgdrywt	15	20	460	39.	230
Benzo (b) Fluoranthene		1100	ug/Kgdrywt	15	20	460	56.	230
Benzo(k)fluoranthene	J	420	ug/Kgdrywt	15	20	460	72.	230
Benzo(a)pyrene		1000	ug/Kgdrywt	15	20	460	76.	230
Indeno (1,2,3-cd) pyrene		700	ug/Kgdrywt	15	20	460	44.	230
Dibenzo (a,h) anthracene	J	200	ug/Kgdrywt	15	20	460	42.	230
Benzo(g,h,i)perylene		570	ug/Kgdrywt	15	20	460	46.	230
1,1'-Biphenyl	U	230	ug/Kgdrywt	15	20	460	25.	230
Perylene	U	230	ug/Kgdrywt	15	20	460	19.	230
Dibenzothiophene	U	230	ug/Kgdrywt	15	20	460	11.	230
2-Methylnaphthalene-D10		52.0	%					
Fluorene-D10	*	0.00	%					
Pyrene-D10		95.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-4
Client ID: OU4-SD-M03-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 49.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	32.	ug/Kgdrywt	1	20	39.	5.0	19.
Acenaphthylene	J	16.	ug/Kgdrywt	1	20	39.	2.3	19.
Acenaphthene	J	26.	ug/Kgdrywt	1	20	39.	2.9	19.
Fluorene	J	38.	ug/Kgdrywt	1	20	39.	6.2	19.
Phenanthrene		390	ug/Kgdrywt	1	20	39.	3.5	19.
Anthracene		76.	ug/Kgdrywt	1	20	39.	2.3	19.
Fluoranthene	E	860	ug/Kgdrywt	1	20	39.	3.5	19.
Pyrene	E	1100	ug/Kgdrywt	1	20	39.	4.1	19.
Benzo (a) anthracene		400	ug/Kgdrywt	1	20	39.	3.7	19.
Chrysene		490	ug/Kgdrywt	1	20	39.	3.3	19.
Benzo (b) Fluoranthene	E	690	ug/Kgdrywt	1	20	39.	4.7	19.
Benzo(k)fluoranthene		220	ug/Kgdrywt	1	20	39.	6.0	19.
Benzo(a)pyrene		440	ug/Kgdrywt	1	20	39.	6.4	19.
Indeno (1,2,3-cd) pyrene		330	ug/Kgdrywt	1	20	39.	3.7	19.
Dibenzo (a,h) anthracene		82.	ug/Kgdrywt	1	20	39.	3.5	19.
Benzo(g,h,i)perylene		240	ug/Kgdrywt	1	20	39.	3.9	19.
1,1'-Biphenyl	J	4.9	ug/Kgdrywt	1	20	39.	2.1	19.
Perylene		100	ug/Kgdrywt	1	20	39.	1.6	19.
Dibenzothiophene	U	19.	ug/Kgdrywt	1	20	39.	0.91	19.
2-Methylnaphthalene-D10		56.1	%					
Fluorene-D10		63.7	%					
Pyrene-D10		108.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-4DL
Client ID: OU4-SD-M03-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 49.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	28.	ug/Kgdrywt	5	20	190	25.	97.
Acenaphthylene	J	13.	ug/Kgdrywt	5	20	190	12.	97.
Acenaphthene	J	25.	ug/Kgdrywt	5	20	190	14.	97.
Fluorene	J	37.	ug/Kgdrywt	5	20	190	31.	97.
Phenanthrene		380	ug/Kgdrywt	5	20	190	18.	97.
Anthracene	J	71.	ug/Kgdrywt	5	20	190	12	97.
Fluoranthene		840	ug/Kgdrywt	5	20	190	18.	97.
Pyrene		1100	ug/Kgdrywt	5	20	190	20.	97.
Benzo (a) anthracene		380	ug/Kgdrywt	5	20	190	18.	97.
Chrysene		510	ug/Kgdrywt	5	20	190	16.	97.
Benzo (b) Fluoranthene		640	ug/Kgdrywt	5	20	190	23.	97.
Benzo(k)fluoranthene		280	ug/Kgdrywt	5	20	190	30.	97.
Benzo(a)pyrene		430	ug/Kgdrywt	5	20	190	32.	97.
Indeno (1,2,3-cd) pyrene		370	ug/Kgdrywt	5	20	190	18.	97.
Dibenzo (a,h) anthracene	J	79.	ug/Kgdrywt	5	20	190	18.	97.
Benzo(g,h,i)perylene		250	ug/Kgdrywt	5	20	190	19.	97.
1,1'-Biphenyl	U	97.	ug/Kgdrywt	5	20	190	11.	97.
Perylene	U	97.	ug/Kgdrywt	5	20	190	8.0	97.
Dibenzothiophene	U	97.	ug/Kgdrywt	5	20	190	4.6	97.
2-Methylnaphthalene-D10		48.3	%					
Fluorene-D10		22.7	%					
Pyrene-D10		108.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-3
Client ID: OU4-SD-M03-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 57.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		66.	ug/Kgdrywt	1	20	33.	4.3	16.
Acenaphthylene	J	22.	ug/Kgdrywt	1	20	33.	2.0	16.
Acenaphthene		97.	ug/Kgdrywt	1	20	33.	2.5	16.
Fluorene		120	ug/Kgdrywt	1	20	33.	5.3	16.
Phenanthrene	E	1200	ug/Kgdrywt	1	20	33.	3.0	16.
Anthracene		310	ug/Kgdrywt	1	20	33.	2.0	16.
Fluoranthene	E	2100	ug/Kgdrywt	1	20	33.	3.0	16.
Pyrene	E	2400	ug/Kgdrywt	1	20	33.	3.5	16.
Benzo (a) anthracene	E	860	ug/Kgdrywt	1	20	33.	3.1	16.
Chrysene	E	960	ug/Kgdrywt	1	20	33.	2.8	16.
Benzo (b) Fluoranthene	E	1300	ug/Kgdrywt	1	20	33.	4.0	16.
Benzo(k)fluoranthene		420	ug/Kgdrywt	1	20	33.	5.1	16.
Benzo(a)pyrene	E	890	ug/Kgdrywt	1	20	33.	5.4	16.
Indeno (1,2,3-cd) pyrene	E	630	ug/Kgdrywt	1	20	33.	3.1	16.
Dibenzo (a,h) anthracene		160	ug/Kgdrywt	1	20	33.	3.0	16.
Benzo(g,h,i)perylene	E	460	ug/Kgdrywt	1	20	33.	3.3	16.
1,1'-Biphenyl	J	8.3	ug/Kgdrywt	1	20	33.	1.8	16.
Perylene		220	ug/Kgdrywt	1	20	33.	1.4	16.
Dibenzothiophene		61.	ug/Kgdrywt	1	20	33.	0.78	16.
2-Methylnaphthalene-D10		58.5	%					
Fluorene-D10		66.6	%					
Pyrene-D10		106.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-3DL
Client ID: OU4-SD-M03-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 57.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	48.	ug/Kgdrywt	10	20	330	43.	160
Acenaphthylene	U	160	ug/Kgdrywt	10	20	330	20.	160
Acenaphthene	J	92.	ug/Kgdrywt	10	20	330	25.	160
Fluorene	J	120	ug/Kgdrywt	10	20	330	53.	160
Phenanthrene		1200	ug/Kgdrywt	10	20	330	30.	160
Anthracene	J	290	ug/Kgdrywt	10	20	330	20.	160
Fluoranthene		1900	ug/Kgdrywt	10	20	330	30.	160
Pyrene		2100	ug/Kgdrywt	10	20	330	35.	160
Benzo (a) anthracene		780	ug/Kgdrywt	10	20	330	31.	160
Chrysene		970	ug/Kgdrywt	10	20	330	28.	160
Benzo (b) Fluoranthene		1100	ug/Kgdrywt	10	20	330	40.	160
Benzo(k)fluoranthene		530	ug/Kgdrywt	10	20	330	51.	160
Benzo(a)pyrene		870	ug/Kgdrywt	10	20	330	54.	160
Indeno (1,2,3-cd) pyrene		680	ug/Kgdrywt	10	20	330	31.	160
Dibenzo (a,h) anthracene	J	140	ug/Kgdrywt	10	20	330	30.	160
Benzo(g,h,i)perylene		490	ug/Kgdrywt	10	20	330	33.	160
1,1'-Biphenyl	U	160	ug/Kgdrywt	10	20	330	18.	160
Perylene	U	160	ug/Kgdrywt	10	20	330	14.	160
Dibenzothiophene	U	160	ug/Kgdrywt	10	20	330	7.8	160
2-Methylnaphthalene-D10		47.8	%					
Fluorene-D10	*	0.00	%					
Pyrene-D10		102.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-1
Client ID: OU4-SD-M03-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 45.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	24.	ug/Kgdrywt	1	20	41.	5.3	20.
Acenaphthylene	J	12.	ug/Kgdrywt	1	20	41.	2.4	20.
Acenaphthene	J	21.	ug/Kgdrywt	1	20	41.	3.0	20.
Fluorene	J	26.	ug/Kgdrywt	1	20	41.	6.5	20.
Phenanthrene		200	ug/Kgdrywt	1	20	41.	3.6	20.
Anthracene		55.	ug/Kgdrywt	1	20	41.	2.4	20.
Fluoranthene		420	ug/Kgdrywt	1	20	41.	3.6	20.
Pyrene		410	ug/Kgdrywt	1	20	41.	4.3	20.
Benzo (a) anthracene		200	ug/Kgdrywt	1	20	41.	3.9	20.
Chrysene		240	ug/Kgdrywt	1	20	41.	3.4	20.
Benzo (b) Fluoranthene		270	ug/Kgdrywt	1	20	41.	4.9	20.
Benzo(k)fluoranthene		110	ug/Kgdrywt	1	20	41.	6.3	20.
Benzo(a)pyrene		200	ug/Kgdrywt	1	20	41.	6.7	20.
Indeno (1,2,3-cd) pyrene		130	ug/Kgdrywt	1	20	41.	3.9	20.
Dibenzo (a,h) anthracene	J	36.	ug/Kgdrywt	1	20	41.	3.6	20.
Benzo(g,h,i)perylene		99.	ug/Kgdrywt	1	20	41.	4.1	20.
1,1'-Biphenyl	J	2.8	ug/Kgdrywt	1	20	41.	2.2	20.
Perylene		45.	ug/Kgdrywt	1	20	41.	1.7	20.
Dibenzothiophene	U	20.	ug/Kgdrywt	1	20	41.	0.96	20.
2-Methylnaphthalene-D10		53.8	%					
Fluorene-D10		60.6	%					
Pyrene-D10		86.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-5
Client ID: OU4-SD-M04-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 49.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	34.	ug/Kgdrywt	1	20	40.	5.2	20.
Acenaphthylene	J	14.	ug/Kgdrywt	1	20	40.	2.4	20.
Acenaphthene	J	25.	ug/Kgdrywt	1	20	40.	3.0	20.
Fluorene		56.	ug/Kgdrywt	1	20	40.	6.5	20.
Phenanthrene		380	ug/Kgdrywt	1	20	40.	3.6	20.
Anthracene		150	ug/Kgdrywt	1	20	40.	2.4	20.
Fluoranthene	E	700	ug/Kgdrywt	1	20	40.	3.6	20.
Pyrene	E	790	ug/Kgdrywt	1	20	40.	4.2	20.
Benzo (a) anthracene		340	ug/Kgdrywt	1	20	40.	3.8	20.
Chrysene		360	ug/Kgdrywt	1	20	40.	3.4	20.
Benzo (b) Fluoranthene		520	ug/Kgdrywt	1	20	40.	4.8	20.
Benzo(k)fluoranthene		180	ug/Kgdrywt	1	20	40.	6.3	20.
Benzo(a)pyrene		370	ug/Kgdrywt	1	20	40.	6.7	20.
Indeno (1,2,3-cd) pyrene		230	ug/Kgdrywt	1	20	40.	3.8	20.
Dibenzo (a,h) anthracene		61.	ug/Kgdrywt	1	20	40.	3.6	20.
Benzo(g,h,i)perylene		170	ug/Kgdrywt	1	20	40.	4.0	20.
1,1'-Biphenyl	J	5.4	ug/Kgdrywt	1	20	40.	2.2	20.
Perylene		83.	ug/Kgdrywt	1	20	40.	1.6	20.
Dibenzothiophene	U	20.	ug/Kgdrywt	1	20	40.	0.95	20.
2-Methylnaphthalene-D10		57.2	%					
Fluorene-D10		69.0	%					
Pyrene-D10		108.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-5DL
Client ID: OU4-SD-M04-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 49.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	28.	ug/Kgdrywt	3	20	120	16.	61.
Acenaphthylene	J	11.	ug/Kgdrywt	3	20	120	7.3	61.
Acenaphthene	J	23.	ug/Kgdrywt	3	20	120	9.1	61.
Fluorene	J	50.	ug/Kgdrywt	3	20	120	19.	61.
Phenanthrene		360	ug/Kgdrywt	3	20	120	11.	61.
Anthracene		130	ug/Kgdrywt	3	20	120	7.3	61.
Fluoranthene		620	ug/Kgdrywt	3	20	120	11.	61.
Pyrene		750	ug/Kgdrywt	3	20	120	13.	61.
Benzo (a) anthracene		310	ug/Kgdrywt	3	20	120	12.	61.
Chrysene		350	ug/Kgdrywt	3	20	120	10.	61.
Benzo (b) Fluoranthene		470	ug/Kgdrywt	3	20	120	14.	61.
Benzo(k)fluoranthene		210	ug/Kgdrywt	3	20	120	19.	61.
Benzo(a)pyrene		360	ug/Kgdrywt	3	20	120	20.	61.
Indeno (1,2,3-cd) pyrene		270	ug/Kgdrywt	3	20	120	12.	61.
Dibenzo (a,h) anthracene	J	67.	ug/Kgdrywt	3	20	120	11.	61.
Benzo(g,h,i)perylene		190	ug/Kgdrywt	3	20	120	12.	61.
1,1'-Biphenyl	U	61.	ug/Kgdrywt	3	20	120	6.7	61.
Perylene	U	61.	ug/Kgdrywt	3	20	120	5.0	61.
Dibenzothiophene	U	61.	ug/Kgdrywt	3	20	120	2.8	61.
2-Methylnaphthalene-D10		51.8	%					
Fluorene-D10		42.2	%					
Pyrene-D10		103.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-2
Client ID: OU4-SD-M04-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 45.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	17.	ug/Kgdrywt	1	20	44.	5.8	22.
Acenaphthylene	J	10.	ug/Kgdrywt	1	20	44.	2.7	22.
Acenaphthene	J	7.5	ug/Kgdrywt	1	20	44.	3.3	22.
Fluorene	J	14.	ug/Kgdrywt	1	20	44.	7.1	22.
Phenanthrene		120	ug/Kgdrywt	1	20	44.	4.0	22.
Anthracene	J	24.	ug/Kgdrywt	1	20	44.	2.7	22.
Fluoranthene		240	ug/Kgdrywt	1	20	44.	4.0	22.
Pyrene		300	ug/Kgdrywt	1	20	44.	4.7	22.
Benzo (a) anthracene		140	ug/Kgdrywt	1	20	44.	4.2	22.
Chrysene		170	ug/Kgdrywt	1	20	44.	3.8	22.
Benzo (b) Fluoranthene		200	ug/Kgdrywt	1	20	44.	5.3	22.
Benzo(k)fluoranthene		80.	ug/Kgdrywt	1	20	44.	6.9	22.
Benzo(a)pyrene		160	ug/Kgdrywt	1	20	44.	7.4	22.
Indeno (1,2,3-cd) pyrene		99.	ug/Kgdrywt	1	20	44.	4.2	22.
Dibenzo (a,h) anthracene	J	27.	ug/Kgdrywt	1	20	44.	4.0	22.
Benzo(g,h,i)perylene		75.	ug/Kgdrywt	1	20	44.	4.4	22.
1,1'-Biphenyl	J	2.6	ug/Kgdrywt	1	20	44.	2.4	22.
Perylene	U	22.	ug/Kgdrywt	1	20	44.	1.8	22.
Dibenzothiophene	U	22.	ug/Kgdrywt	1	20	44.	1.0	22.
2-Methylnaphthalene-D10		53.3	%					
Fluorene-D10		57.5	%					
Pyrene-D10		87.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-6
Client ID: OU4-SD-M04-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 18-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 79.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	12.	ug/Kgdrywt	1	20	25.	3.2	12.
Acenaphthylene	J	2.4	ug/Kgdrywt	1	20	25.	1.5	12.
Acenaphthene	J	3.6	ug/Kgdrywt	1	20	25.	1.9	12.
Fluorene	J	5.2	ug/Kgdrywt	1	20	25.	4.0	12.
Phenanthrene		78.	ug/Kgdrywt	1	20	25.	2.2	12.
Anthracene	J	22.	ug/Kgdrywt	1	20	25.	1.5	12.
Fluoranthene		240	ug/Kgdrywt	1	20	25.	2.2	12.
Pyrene		240	ug/Kgdrywt	1	20	25.	2.6	12.
Benzo (a) anthracene		110	ug/Kgdrywt	1	20	25.	2.4	12.
Chrysene		120	ug/Kgdrywt	1	20	25.	2.1	12.
Benzo (b) Fluoranthene		170	ug/Kgdrywt	1	20	25.	3.0	12.
Benzo(k)fluoranthene		62.	ug/Kgdrywt	1	20	25.	3.9	12.
Benzo(a)pyrene		120	ug/Kgdrywt	1	20	25.	4.1	12.
Indeno (1,2,3-cd) pyrene		71.	ug/Kgdrywt	1	20	25.	2.4	12.
Dibenzo (a,h) anthracene	J	19.	ug/Kgdrywt	1	20	25.	2.2	12.
Benzo(g,h,i)perylene		50.	ug/Kgdrywt	1	20	25.	2.5	12.
1,1'-Biphenyl	U	12.	ug/Kgdrywt	1	20	25.	1.4	12.
Perylene		27.	ug/Kgdrywt	1	20	25.	1.0	12.
Dibenzothiophene	U	12.	ug/Kgdrywt	1	20	25.	0.58	12.
2-Methylnaphthalene-D10		58.9	%					
Fluorene-D10		64.3	%					
Pyrene-D10		93.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-22
Client ID: OU4-SD-M05-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 48.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	8.8	ug/Kgdrywt	1	20	38.	4.9	19.
Acenaphthylene	J	8.2	ug/Kgdrywt	1	20	38.	2.3	19.
Acenaphthene		62.	ug/Kgdrywt	1	20	38.	2.8	19.
Fluorene		71.	ug/Kgdrywt	1	20	38.	6.1	19.
Phenanthrene	E	750	ug/Kgdrywt	1	20	38.	3.4	19.
Anthracene		130	ug/Kgdrywt	1	20	38.	2.3	19.
Fluoranthene	E	1100	ug/Kgdrywt	1	20	38.	3.4	19.
Pyrene	E	1200	ug/Kgdrywt	1	20	38.	4.0	19.
Benzo (a) anthracene		410	ug/Kgdrywt	1	20	38.	3.6	19.
Chrysene		420	ug/Kgdrywt	1	20	38.	3.2	19.
Benzo (b) Fluoranthene	E	520	ug/Kgdrywt	1	20	38.	4.6	19.
Benzo(k)fluoranthene		190	ug/Kgdrywt	1	20	38.	5.9	19.
Benzo(a)pyrene		390	ug/Kgdrywt	1	20	38.	6.3	19.
Indeno (1,2,3-cd) pyrene		240	ug/Kgdrywt	1	20	38.	3.6	19.
Dibenzo (a,h) anthracene		60.	ug/Kgdrywt	1	20	38.	3.4	19.
Benzo(g,h,i)perylene		180	ug/Kgdrywt	1	20	38.	3.8	19.
1,1'-Biphenyl	J	2.5	ug/Kgdrywt	1	20	38.	2.1	19.
Perylene		87.	ug/Kgdrywt	1	20	38.	1.6	19.
Dibenzothiophene		42.	ug/Kgdrywt	1	20	38.	0.89	19.
2-Methylnaphthalene-D10		36.1	%					
Fluorene-D10		44.6	%					
Pyrene-D10		75.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-22DL
Client ID: OU4-SD-M05-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 48.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	110	ug/Kgdrywt	6	20	230	30.	110
Acenaphthylene	U	110	ug/Kgdrywt	6	20	230	14.	110
Acenaphthene	J	58.	ug/Kgdrywt	6	20	230	17.	110
Fluorene	J	68.	ug/Kgdrywt	6	20	230	36.	110
Phenanthrene		700	ug/Kgdrywt	6	20	230	20.	110
Anthracene	J	130	ug/Kgdrywt	6	20	230	14.	110
Fluoranthene		960	ug/Kgdrywt	6	20	230	20.	110
Pyrene		1000	ug/Kgdrywt	6	20	230	24.	110
Benzo (a) anthracene		400	ug/Kgdrywt	6	20	230	22.	110
Chrysene		440	ug/Kgdrywt	6	20	230	19.	110
Benzo (b) Fluoranthene		480	ug/Kgdrywt	6	20	230	27.	110
Benzo(k)fluoranthene	J	220	ug/Kgdrywt	6	20	230	35.	110
Benzo(a)pyrene		390	ug/Kgdrywt	6	20	230	38.	110
Indeno (1,2,3-cd) pyrene		290	ug/Kgdrywt	6	20	230	22.	110
Dibenzo (a,h) anthracene	J	65.	ug/Kgdrywt	6	20	230	20.	110
Benzo(g,h,i)perylene	J	210	ug/Kgdrywt	6	20	230	23.	110
1,1'-Biphenyl	U	110	ug/Kgdrywt	6	20	230	12.	110
Perylene	U	110	ug/Kgdrywt	6	20	230	9.4	110
Dibenzothiophene	U	110	ug/Kgdrywt	6	20	230	5.4	110
2-Methylnaphthalene-D10		34.4	%					
Fluorene-D10	*	0.00	%					
Pyrene-D10		68.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-21
Client ID: OU4-SD-M05-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 40.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	6.8	ug/Kgdrywt	1	20	44.	5.8	22.
Acenaphthylene	J	8.6	ug/Kgdrywt	1	20	44.	2.6	22.
Acenaphthene	J	12.	ug/Kgdrywt	1	20	44.	3.3	22.
Fluorene	J	18.	ug/Kgdrywt	1	20	44.	7.1	22.
Phenanthrene		210	ug/Kgdrywt	1	20	44.	4.0	22.
Anthracene	J	40.	ug/Kgdrywt	1	20	44.	2.6	22.
Fluoranthene		470	ug/Kgdrywt	1	20	44.	4.0	22.
Pyrene		510	ug/Kgdrywt	1	20	44.	4.6	22.
Benzo (a) anthracene		200	ug/Kgdrywt	1	20	44.	4.2	22.
Chrysene		240	ug/Kgdrywt	1	20	44.	3.8	22.
Benzo (b) Fluoranthene		340	ug/Kgdrywt	1	20	44.	5.3	22.
Benzo(k)fluoranthene		120	ug/Kgdrywt	1	20	44.	6.9	22.
Benzo(a)pyrene		230	ug/Kgdrywt	1	20	44.	7.3	22.
Indeno (1,2,3-cd) pyrene		170	ug/Kgdrywt	1	20	44.	4.2	22.
Dibenzo (a,h) anthracene	J	42.	ug/Kgdrywt	1	20	44.	4.0	22.
Benzo(g,h,i)perylene		130	ug/Kgdrywt	1	20	44.	4.4	22.
1,1'-Biphenyl	U	22.	ug/Kgdrywt	1	20	44.	2.4	22.
Perylene		50.	ug/Kgdrywt	1	20	44.	1.8	22.
Dibenzothiophene	U	22.	ug/Kgdrywt	1	20	44.	1.0	22.
2-Methylnaphthalene-D10		40.4	%					
Fluorene-D10		41.8	%					
Pyrene-D10		72.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-24
Client ID: OU4-SD-M05-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 51.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	17.	ug/Kgdrywt	1	20	34.	4.4	17.
Acenaphthylene	J	6.4	ug/Kgdrywt	1	20	34.	2.0	17.
Acenaphthene	J	6.4	ug/Kgdrywt	1	20	34.	2.5	17.
Fluorene	J	9.0	ug/Kgdrywt	1	20	34.	5.4	17.
Phenanthrene		90.	ug/Kgdrywt	1	20	34.	3.0	17.
Anthracene	J	17.	ug/Kgdrywt	1	20	34.	2.0	17.
Fluoranthene		170	ug/Kgdrywt	1	20	34.	3.0	17.
Pyrene		270	ug/Kgdrywt	1	20	34.	3.6	17.
Benzo (a) anthracene		100	ug/Kgdrywt	1	20	34.	3.2	17.
Chrysene		120	ug/Kgdrywt	1	20	34.	2.9	17.
Benzo (b) Fluoranthene		150	ug/Kgdrywt	1	20	34.	4.1	17.
Benzo(k)fluoranthene		51.	ug/Kgdrywt	1	20	34.	5.3	17.
Benzo(a)pyrene		110	ug/Kgdrywt	1	20	34.	5.6	17.
Indeno (1,2,3-cd) pyrene		60.	ug/Kgdrywt	1	20	34.	3.2	17.
Dibenzo (a,h) anthracene	J	16.	ug/Kgdrywt	1	20	34.	3.0	17.
Benzo(g,h,i)perylene		47.	ug/Kgdrywt	1	20	34.	3.4	17.
1,1'-Biphenyl	U	17.	ug/Kgdrywt	1	20	34.	1.9	17.
Perylene	U	17.	ug/Kgdrywt	1	20	34.	1.4	17.
Dibenzothiophene	U	17.	ug/Kgdrywt	1	20	34.	0.80	17.
2-Methylnaphthalene-D10		43.6	%					
Fluorene-D10		52.5	%					
Pyrene-D10		94.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-23
Client ID: OU4-SD-M05-411B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 40.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	13.	ug/Kgdrywt	1	20	49.	6.3	24.
Acenaphthylene	J	9.7	ug/Kgdrywt	1	20	49.	2.9	24.
Acenaphthene		51.	ug/Kgdrywt	1	20	49.	3.7	24.
Fluorene		61.	ug/Kgdrywt	1	20	49.	7.8	24.
Phenanthrene		580	ug/Kgdrywt	1	20	49.	4.4	24.
Anthracene		140	ug/Kgdrywt	1	20	49.	2.9	24.
Fluoranthene	E	860	ug/Kgdrywt	1	20	49.	4.4	24.
Pyrene	E	1100	ug/Kgdrywt	1	20	49.	5.1	24.
Benzo (a) anthracene		390	ug/Kgdrywt	1	20	49.	4.6	24.
Chrysene		400	ug/Kgdrywt	1	20	49.	4.2	24.
Benzo (b) Fluoranthene		500	ug/Kgdrywt	1	20	49.	5.9	24.
Benzo(k)fluoranthene		180	ug/Kgdrywt	1	20	49.	7.6	24.
Benzo(a)pyrene		380	ug/Kgdrywt	1	20	49.	8.0	24.
Indeno (1,2,3-cd) pyrene		240	ug/Kgdrywt	1	20	49.	4.6	24.
Dibenzo (a,h) anthracene		65.	ug/Kgdrywt	1	20	49.	4.4	24.
Benzo(g,h,i)perylene		190	ug/Kgdrywt	1	20	49.	4.9	24.
1,1'-Biphenyl	J	3.4	ug/Kgdrywt	1	20	49.	2.7	24.
Perylene		82.	ug/Kgdrywt	1	20	49.	2.0	24.
Dibenzothiophene	U	24.	ug/Kgdrywt	1	20	49.	1.1	24.
2-Methylnaphthalene-D10		36.0	%					
Fluorene-D10		43.7	%					
Pyrene-D10		74.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-23DL
Client ID: OU4-SD-M05-411B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 40.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	98.	ug/Kgdrywt	4	20	200	25.	98.
Acenaphthylene	U	98.	ug/Kgdrywt	4	20	200	12.	98.
Acenaphthene	J	51.	ug/Kgdrywt	4	20	200	15.	98.
Fluorene	J	62.	ug/Kgdrywt	4	20	200	31.	98.
Phenanthrene		610	ug/Kgdrywt	4	20	200	18.	98.
Anthracene	J	140	ug/Kgdrywt	4	20	200	12.	98.
Fluoranthene		880	ug/Kgdrywt	4	20	200	18.	98.
Pyrene		1100	ug/Kgdrywt	4	20	200	20.	98.
Benzo (a) anthracene		380	ug/Kgdrywt	4	20	200	18.	98.
Chrysene		440	ug/Kgdrywt	4	20	200	17.	98.
Benzo (b) Fluoranthene		550	ug/Kgdrywt	4	20	200	23.	98.
Benzo(k)fluoranthene	J	200	ug/Kgdrywt	4	20	200	30.	98.
Benzo(a)pyrene		400	ug/Kgdrywt	4	20	200	32.	98.
Indeno (1,2,3-cd) pyrene		290	ug/Kgdrywt	4	20	200	18.	98.
Dibenzo (a,h) anthracene	J	68.	ug/Kgdrywt	4	20	200	18.	98.
Benzo(g,h,i)perylene	J	200	ug/Kgdrywt	4	20	200	20.	98.
1,1'-Biphenyl	U	98.	ug/Kgdrywt	4	20	200	11.	98.
Perylene	U	98.	ug/Kgdrywt	4	20	200	8.0	98.
Dibenzothiophene	U	98.	ug/Kgdrywt	4	20	200	4.6	98.
2-Methylnaphthalene-D10		36.6	%					
Fluorene-D10	*	13.2	%					
Pyrene-D10		79.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-26
Client ID: OU4-SD-M07-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 65.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	14.	ug/Kgdrywt	1	20	29.	3.7	14.
Acenaphthylene	J	2.4	ug/Kgdrywt	1	20	29.	1.7	14.
Acenaphthene	J	3.0	ug/Kgdrywt	1	20	29.	2.2	14.
Fluorene	J	5.8	ug/Kgdrywt	1	20	29.	4.6	14.
Phenanthrene		73.	ug/Kgdrywt	1	20	29.	2.6	14.
Anthracene	J	11.	ug/Kgdrywt	1	20	29.	1.7	14.
Fluoranthene		160	ug/Kgdrywt	1	20	29.	2.6	14.
Pyrene		230	ug/Kgdrywt	1	20	29.	3.0	14.
Benzo (a) anthracene		70.	ug/Kgdrywt	1	20	29.	2.7	14.
Chrysene		90.	ug/Kgdrywt	1	20	29.	2.4	14.
Benzo (b) Fluoranthene		120	ug/Kgdrywt	1	20	29.	3.4	14.
Benzo(k)fluoranthene		40.	ug/Kgdrywt	1	20	29.	4.5	14.
Benzo(a)pyrene		83.	ug/Kgdrywt	1	20	29.	4.8	14.
Indeno (1,2,3-cd) pyrene		70.	ug/Kgdrywt	1	20	29.	2.7	14.
Dibenzo (a,h) anthracene	J	18.	ug/Kgdrywt	1	20	29.	2.6	14.
Benzo(g,h,i)perylene		57.	ug/Kgdrywt	1	20	29.	2.9	14.
1,1'-Biphenyl	U	14.	ug/Kgdrywt	1	20	29.	1.6	14.
Perylene	U	14.	ug/Kgdrywt	1	20	29.	1.2	14.
Dibenzothiophene	U	14.	ug/Kgdrywt	1	20	29.	0.68	14.
2-Methylnaphthalene-D10		45.4	%					
Fluorene-D10		52.0	%					
Pyrene-D10		107.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-14
Client ID: OU4-SD-M07-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 34.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	20.	ug/Kgdrywt	1	20	55.	7.2	28.
Acenaphthylene	J	17.	ug/Kgdrywt	1	20	55.	3.3	28.
Acenaphthene	J	9.3	ug/Kgdrywt	1	20	55.	4.1	28.
Fluorene	J	17.	ug/Kgdrywt	1	20	55.	8.8	28.
Phenanthrene		140	ug/Kgdrywt	1	20	55.	5.0	28.
Anthracene	J	48.	ug/Kgdrywt	1	20	55.	3.3	28.
Fluoranthene		340	ug/Kgdrywt	1	20	55.	5.0	28.
Pyrene		450	ug/Kgdrywt	1	20	55.	5.8	28.
Benzo (a) anthracene		230	ug/Kgdrywt	1	20	55.	5.2	28.
Chrysene		240	ug/Kgdrywt	1	20	55.	4.7	28.
Benzo (b) Fluoranthene		300	ug/Kgdrywt	1	20	55.	6.6	28.
Benzo(k)fluoranthene		100	ug/Kgdrywt	1	20	55.	8.5	28.
Benzo(a)pyrene		250	ug/Kgdrywt	1	20	55.	9.1	28.
Indeno (1,2,3-cd) pyrene		140	ug/Kgdrywt	1	20	55.	5.2	28.
Dibenzo (a,h) anthracene	J	42.	ug/Kgdrywt	1	20	55.	5.0	28.
Benzo(g,h,i)perylene		110	ug/Kgdrywt	1	20	55.	5.5	28.
1,1'-Biphenyl	U	28.	ug/Kgdrywt	1	20	55.	3.0	28.
Perylene	U	28.	ug/Kgdrywt	1	20	55.	2.2	28.
Dibenzothiophene	U	28.	ug/Kgdrywt	1	20	55.	1.3	28.
2-Methylnaphthalene-D10		52.9	%					
Fluorene-D10		57.1	%					
Pyrene-D10		89.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-15
Client ID: OU4-SD-M07-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 35.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	16.	ug/Kgdrywt	1	20	49.	6.4	25.
Acenaphthylene	J	12.	ug/Kgdrywt	1	20	49.	3.0	25.
Acenaphthene	J	6.0	ug/Kgdrywt	1	20	49.	3.7	25.
Fluorene	J	13.	ug/Kgdrywt	1	20	49.	7.9	25.
Phenanthrene		110	ug/Kgdrywt	1	20	49.	4.4	25.
Anthracene	J	29.	ug/Kgdrywt	1	20	49.	3.0	25.
Fluoranthene		240	ug/Kgdrywt	1	20	49.	4.4	25.
Pyrene		390	ug/Kgdrywt	1	20	49.	5.2	25.
Benzo (a) anthracene		150	ug/Kgdrywt	1	20	49.	4.7	25.
Chrysene		160	ug/Kgdrywt	1	20	49.	4.2	25.
Benzo (b) Fluoranthene		210	ug/Kgdrywt	1	20	49.	5.9	25.
Benzo(k)fluoranthene		76.	ug/Kgdrywt	1	20	49.	7.6	25.
Benzo(a)pyrene		170	ug/Kgdrywt	1	20	49.	8.1	25.
Indeno (1,2,3-cd) pyrene		100	ug/Kgdrywt	1	20	49.	4.7	25.
Dibenzo (a,h) anthracene	J	28.	ug/Kgdrywt	1	20	49.	4.4	25.
Benzo(g,h,i)perylene		81.	ug/Kgdrywt	1	20	49.	4.9	25.
1,1'-Biphenyl	U	25.	ug/Kgdrywt	1	20	49.	2.7	25.
Perylene	U	25.	ug/Kgdrywt	1	20	49.	2.0	25.
Dibenzothiophene	U	25.	ug/Kgdrywt	1	20	49.	1.2	25.
2-Methylnaphthalene-D10		56.7	%					
Fluorene-D10		63.4	%					
Pyrene-D10		113.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-29
Client ID: OU4-SD-M08-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 68.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	14.	ug/Kgdrywt	1	20	28.	3.7	14.
Acenaphthylene	J	2.8	ug/Kgdrywt	1	20	28.	1.7	14.
Acenaphthene	J	2.9	ug/Kgdrywt	1	20	28.	2.1	14.
Fluorene	J	4.7	ug/Kgdrywt	1	20	28.	4.5	14.
Phenanthrene		58.	ug/Kgdrywt	1	20	28.	2.5	14.
Anthracene	J	13.	ug/Kgdrywt	1	20	28.	1.7	14.
Fluoranthene		150	ug/Kgdrywt	1	20	28.	2.5	14.
Pyrene		150	ug/Kgdrywt	1	20	28.	3.0	14.
Benzo (a) anthracene		63.	ug/Kgdrywt	1	20	28.	2.7	14.
Chrysene		81.	ug/Kgdrywt	1	20	28.	2.4	14.
Benzo (b) Fluoranthene		98.	ug/Kgdrywt	1	20	28.	3.4	14.
Benzo(k)fluoranthene		32.	ug/Kgdrywt	1	20	28.	4.4	14.
Benzo(a)pyrene		73.	ug/Kgdrywt	1	20	28.	4.6	14.
Indeno (1,2,3-cd) pyrene		50.	ug/Kgdrywt	1	20	28.	2.7	14.
Dibenzo (a,h) anthracene	J	13.	ug/Kgdrywt	1	20	28.	2.5	14.
Benzo(g,h,i)perylene		42.	ug/Kgdrywt	1	20	28.	2.8	14.
1,1'-Biphenyl	U	14.	ug/Kgdrywt	1	20	28.	1.6	14.
Perylene	U	14.	ug/Kgdrywt	1	20	28.	1.2	14.
Dibenzothiophene	U	14.	ug/Kgdrywt	1	20	28.	0.66	14.
2-Methylnaphthalene-D10		50.3	%					
Fluorene-D10		49.9	%					
Pyrene-D10		78.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-13
Client ID: OU4-SD-M08-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 53.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	16.	ug/Kgdrywt	1	20	36.	4.7	18.
Acenaphthylene	J	7.1	ug/Kgdrywt	1	20	36.	2.2	18.
Acenaphthene	J	26.	ug/Kgdrywt	1	20	36.	2.7	18.
Fluorene	J	35.	ug/Kgdrywt	1	20	36.	5.8	18.
Phenanthrene		240	ug/Kgdrywt	1	20	36.	3.3	18.
Anthracene		60.	ug/Kgdrywt	1	20	36.	2.2	18.
Fluoranthene		380	ug/Kgdrywt	1	20	36.	3.3	18.
Pyrene	E	550	ug/Kgdrywt	1	20	36.	3.8	18.
Benzo (a) anthracene		200	ug/Kgdrywt	1	20	36.	3.4	18.
Chrysene		220	ug/Kgdrywt	1	20	36.	3.1	18.
Benzo (b) Fluoranthene		280	ug/Kgdrywt	1	20	36.	4.3	18.
Benzo(k)fluoranthene		94.	ug/Kgdrywt	1	20	36.	5.6	18.
Benzo(a)pyrene		210	ug/Kgdrywt	1	20	36.	6.0	18.
Indeno (1,2,3-cd) pyrene		120	ug/Kgdrywt	1	20	36.	3.4	18.
Dibenzo (a,h) anthracene		38.	ug/Kgdrywt	1	20	36.	3.3	18.
Benzo(g,h,i)perylene		99.	ug/Kgdrywt	1	20	36.	3.6	18.
1,1'-Biphenyl	J	3.4	ug/Kgdrywt	1	20	36.	2.0	18.
Perylene		42.	ug/Kgdrywt	1	20	36.	1.5	18.
Dibenzothiophene	U	18.	ug/Kgdrywt	1	20	36.	0.85	18.
2-Methylnaphthalene-D10		47.4	%					
Fluorene-D10		58.8	%					
Pyrene-D10		106.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-13DL
Client ID: OU4-SD-M08-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 53.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	16.	ug/Kgdrywt	2	20	72.	9.4	36.
Acenaphthylene	J	6.9	ug/Kgdrywt	2	20	72.	4.3	36.
Acenaphthene	J	27.	ug/Kgdrywt	2	20	72.	5.4	36.
Fluorene	J	35.	ug/Kgdrywt	2	20	72.	12.	36.
Phenanthrene		240	ug/Kgdrywt	2	20	72.	6.5	36.
Anthracene	J	59.	ug/Kgdrywt	2	20	72.	4.3	36.
Fluoranthene		380	ug/Kgdrywt	2	20	72.	6.5	36.
Pyrene		460	ug/Kgdrywt	2	20	72.	7.6	36.
Benzo (a) anthracene		190	ug/Kgdrywt	2	20	72.	6.9	36.
Chrysene		220	ug/Kgdrywt	2	20	72.	6.2	36.
Benzo (b) Fluoranthene		280	ug/Kgdrywt	2	20	72.	8.7	36.
Benzo(k)fluoranthene		99.	ug/Kgdrywt	2	20	72.	11.	36.
Benzo(a)pyrene		200	ug/Kgdrywt	2	20	72.	12.	36.
Indeno (1,2,3-cd) pyrene		120	ug/Kgdrywt	2	20	72.	6.9	36.
Dibenzo (a,h) anthracene	J	38.	ug/Kgdrywt	2	20	72.	6.5	36.
Benzo(g,h,i)perylene		100	ug/Kgdrywt	2	20	72.	7.2	36.
1,1'-Biphenyl	U	36.	ug/Kgdrywt	2	20	72.	4.0	36.
Perylene	U	36.	ug/Kgdrywt	2	20	72.	3.0	36.
Dibenzothiophene	U	36.	ug/Kgdrywt	2	20	72.	1.7	36.
2-Methylnaphthalene-D10		45.4	%					
Fluorene-D10		46.6	%					
Pyrene-D10		90.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-27
Client ID: OU4-SD-M08-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 69.
Report Date: 20-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	13.	ug/Kgdrywt	1	20	27.	3.5	13.
Acenaphthylene	U	13.	ug/Kgdrywt	1	20	27.	1.6	13.
Acenaphthene	U	13.	ug/Kgdrywt	1	20	27.	2.0	13.
Fluorene	U	13.	ug/Kgdrywt	1	20	27.	4.3	13.
Phenanthrene	J	22.	ug/Kgdrywt	1	20	27.	2.4	13.
Anthracene	J	5.0	ug/Kgdrywt	1	20	27.	1.6	13.
Fluoranthene		62.	ug/Kgdrywt	1	20	27.	2.4	13.
Pyrene		68.	ug/Kgdrywt	1	20	27.	2.8	13.
Benzo (a) anthracene	J	26.	ug/Kgdrywt	1	20	27.	2.6	13.
Chrysene		34.	ug/Kgdrywt	1	20	27.	2.3	13.
Benzo (b) Fluoranthene		44.	ug/Kgdrywt	1	20	27.	3.2	13.
Benzo(k)fluoranthene	J	17.	ug/Kgdrywt	1	20	27.	4.2	13.
Benzo(a)pyrene		30.	ug/Kgdrywt	1	20	27.	4.4	13.
Indeno (1,2,3-cd) pyrene	J	23.	ug/Kgdrywt	1	20	27.	2.6	13.
Dibenzo (a,h) anthracene	J	5.5	ug/Kgdrywt	1	20	27.	2.4	13.
Benzo(g,h,i)perylene	J	17.	ug/Kgdrywt	1	20	27.	2.7	13.
1,1'-Biphenyl	U	13.	ug/Kgdrywt	1	20	27.	1.5	13.
Perylene	U	13.	ug/Kgdrywt	1	20	27.	1.1	13.
Dibenzothiophene	U	13.	ug/Kgdrywt	1	20	27.	0.63	13.
2-Methylnaphthalene-D10		39.7	%					
Fluorene-D10		51.3	%					
Pyrene-D10		89.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-30
Client ID: OU4-SD-M09-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 28.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	34.	ug/Kgdrywt	1	20	68.	8.9	34.
Acenaphthylene	J	5.8	ug/Kgdrywt	1	20	68.	4.1	34.
Acenaphthene	J	10.	ug/Kgdrywt	1	20	68.	5.1	34.
Fluorene	J	17.	ug/Kgdrywt	1	20	68.	11.	34.
Phenanthrene		140	ug/Kgdrywt	1	20	68.	6.1	34.
Anthracene	J	57.	ug/Kgdrywt	1	20	68.	4.1	34.
Fluoranthene		350	ug/Kgdrywt	1	20	68.	6.1	34.
Pyrene		440	ug/Kgdrywt	1	20	68.	7.2	34.
Benzo (a) anthracene		150	ug/Kgdrywt	1	20	68.	6.5	34.
Chrysene		200	ug/Kgdrywt	1	20	68.	5.8	34.
Benzo (b) Fluoranthene		240	ug/Kgdrywt	1	20	68.	8.2	34.
Benzo(k)fluoranthene		88.	ug/Kgdrywt	1	20	68.	10.	34.
Benzo(a)pyrene		160	ug/Kgdrywt	1	20	68.	11.	34.
Indeno (1,2,3-cd) pyrene		110	ug/Kgdrywt	1	20	68.	6.5	34.
Dibenzo (a,h) anthracene	J	26.	ug/Kgdrywt	1	20	68.	6.1	34.
Benzo(g,h,i)perylene		77.	ug/Kgdrywt	1	20	68.	6.8	34.
1,1'-Biphenyl	U	34.	ug/Kgdrywt	1	20	68.	3.7	34.
Perylene	U	34.	ug/Kgdrywt	1	20	68.	2.8	34.
Dibenzothiophene	U	34.	ug/Kgdrywt	1	20	68.	1.6	34.
2-Methylnaphthalene-D10		29.6	%					
Fluorene-D10		32.2	%					
Pyrene-D10		62.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-11
Client ID: OU4-SD-M09-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 28.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	34.	ug/Kgdrywt	1	20	55.	7.2	28.
Acenaphthylene	J	16.	ug/Kgdrywt	1	20	55.	3.3	28.
Acenaphthene	J	41.	ug/Kgdrywt	1	20	55.	4.1	28.
Fluorene	J	53.	ug/Kgdrywt	1	20	55.	8.8	28.
Phenanthrene		460	ug/Kgdrywt	1	20	55.	5.0	28.
Anthracene		120	ug/Kgdrywt	1	20	55.	3.3	28.
Fluoranthene	E	940	ug/Kgdrywt	1	20	55.	5.0	28.
Pyrene	E	1200	ug/Kgdrywt	1	20	55.	5.8	28.
Benzo (a) anthracene		470	ug/Kgdrywt	1	20	55.	5.2	28.
Chrysene		480	ug/Kgdrywt	1	20	55.	4.7	28.
Benzo (b) Fluoranthene		600	ug/Kgdrywt	1	20	55.	6.6	28.
Benzo(k)fluoranthene		240	ug/Kgdrywt	1	20	55.	8.5	28.
Benzo(a)pyrene		470	ug/Kgdrywt	1	20	55.	9.1	28.
Indeno (1,2,3-cd) pyrene		290	ug/Kgdrywt	1	20	55.	5.2	28.
Dibenzo (a,h) anthracene		74.	ug/Kgdrywt	1	20	55.	5.0	28.
Benzo(g,h,i)perylene		210	ug/Kgdrywt	1	20	55.	5.5	28.
1,1'-Biphenyl	J	5.8	ug/Kgdrywt	1	20	55.	3.0	28.
Perylene		110	ug/Kgdrywt	1	20	55.	2.2	28.
Dibenzothiophene	U	28.	ug/Kgdrywt	1	20	55.	1.3	28.
2-Methylnaphthalene-D10		52.4	%					
Fluorene-D10		62.0	%					
Pyrene-D10		97.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-11DL
Client ID: OU4-SD-M09-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 28.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	28.	ug/Kgdrywt	3	20	160	21.	83.
Acenaphthylene	J	15.	ug/Kgdrywt	3	20	160	9.9	83.
Acenaphthene	J	39.	ug/Kgdrywt	3	20	160	12.	83.
Fluorene	J	51.	ug/Kgdrywt	3	20	160	26.	83.
Phenanthrene		440	ug/Kgdrywt	3	20	160	15.	83.
Anthracene	J	120	ug/Kgdrywt	3	20	160	9.9	83.
Fluoranthene		860	ug/Kgdrywt	3	20	160	15.	83.
Pyrene		980	ug/Kgdrywt	3	20	160	17.	83.
Benzo (a) anthracene		440	ug/Kgdrywt	3	20	160	16.	83.
Chrysene		450	ug/Kgdrywt	3	20	160	14.	83.
Benzo (b) Fluoranthene		570	ug/Kgdrywt	3	20	160	20.	83.
Benzo(k)fluoranthene		210	ug/Kgdrywt	3	20	160	26.	83.
Benzo(a)pyrene		450	ug/Kgdrywt	3	20	160	27.	83.
Indeno (1,2,3-cd) pyrene		350	ug/Kgdrywt	3	20	160	16.	83.
Dibenzo (a,h) anthracene	J	95.	ug/Kgdrywt	3	20	160	15.	83.
Benzo(g,h,i)perylene		270	ug/Kgdrywt	3	20	160	16.	83.
1,1'-Biphenyl	U	83.	ug/Kgdrywt	3	20	160	9.1	83.
Perylene	U	83.	ug/Kgdrywt	3	20	160	6.8	83.
Dibenzothiophene	U	83.	ug/Kgdrywt	3	20	160	3.9	83.
2-Methylnaphthalene-D10		48.7	%					
Fluorene-D10		37.9	%					
Pyrene-D10		83.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-12
Client ID: OU4-SD-M09-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 26.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	35.	ug/Kgdrywt	1	20	72.	9.3	36.
Acenaphthylene	J	21.	ug/Kgdrywt	1	20	72.	4.3	36.
Acenaphthene	J	39.	ug/Kgdrywt	1	20	72.	5.4	36.
Fluorene	J	48.	ug/Kgdrywt	1	20	72.	11.	36.
Phenanthrene		430	ug/Kgdrywt	1	20	72.	6.5	36.
Anthracene		100	ug/Kgdrywt	1	20	72.	4.3	36
Fluoranthene		880	ug/Kgdrywt	1	20	72.	6.5	36.
Pyrene	E	1000	ug/Kgdrywt	1	20	72.	7.5	36.
Benzo (a) anthracene		450	ug/Kgdrywt	1	20	72.	6.8	36.
Chrysene		430	ug/Kgdrywt	1	20	72.	6.1	36.
Benzo (b) Fluoranthene		600	ug/Kgdrywt	1	20	72.	8.6	36.
Benzo(k)fluoranthene		220	ug/Kgdrywt	1	20	72.	11.	36.
Benzo(a)pyrene		450	ug/Kgdrywt	1	20	72.	12.	36.
Indeno (1,2,3-cd) pyrene		300	ug/Kgdrywt	1	20	72.	6.8	36.
Dibenzo (a,h) anthracene		76.	ug/Kgdrywt	1	20	72.	6.5	36.
Benzo(g,h,i)perylene		230	ug/Kgdrywt	1	20	72.	7.2	36.
1,1'-Biphenyl	J	5.0	ug/Kgdrywt	1	20	72.	4.0	36.
Perylene		100	ug/Kgdrywt	1	20	72.	2.9	36.
Dibenzothiophene	U	36.	ug/Kgdrywt	1	20	72.	1.7	36.
2-Methylnaphthalene-D10		52.3	%					
Fluorene-D10		62.3	%					
Pyrene-D10		94.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-12DL
Client ID: OU4-SD-M09-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 26.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	34.	ug/Kgdrywt	2	20	140	19.	72.
Acenaphthylene	J	19.	ug/Kgdrywt	2	20	140	8.6	72.
Acenaphthene	J	39.	ug/Kgdrywt	2	20	140	11.	72.
Fluorene	J	47.	ug/Kgdrywt	2	20	140	23.	72.
Phenanthrene		430	ug/Kgdrywt	2	20	140	13.	72.
Anthracene	J	100	ug/Kgdrywt	2	20	140	8.6	72.
Fluoranthene		860	ug/Kgdrywt	2	20	140	13.	72.
Pyrene		950	ug/Kgdrywt	2	20	140	15.	72.
Benzo (a) anthracene		420	ug/Kgdrywt	2	20	140	14.	72.
Chrysene		430	ug/Kgdrywt	2	20	140	12.	72.
Benzo (b) Fluoranthene		590	ug/Kgdrywt	2	20	140	17.	72.
Benzo(k)fluoranthene		220	ug/Kgdrywt	2	20	140	22.	72.
Benzo(a)pyrene		450	ug/Kgdrywt	2	20	140	24.	72.
Indeno (1,2,3-cd) pyrene		300	ug/Kgdrywt	2	20	140	14.	72.
Dibenzo (a,h) anthracene	J	82.	ug/Kgdrywt	2	20	140	13.	72.
Benzo(g,h,i)perylene		220	ug/Kgdrywt	2	20	140	14.	72.
1,1'-Biphenyl	U	72.	ug/Kgdrywt	2	20	140	7.9	72.
Perylene	U	72.	ug/Kgdrywt	2	20	140	5.9	72.
Dibenzothiophene	U	72.	ug/Kgdrywt	2	20	140	3.4	72.
2-Methylnaphthalene-D10		50.6	%					
Fluorene-D10		49.8	%					
Pyrene-D10		91.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-31
Client ID: OU4-SD-M12-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 56.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		220	ug/Kgdrywt	1	20	34.	4.4	17.
Acenaphthylene	U	17.	ug/Kgdrywt	1	20	34.	2.0	17.
Acenaphthene	E	720	ug/Kgdrywt	1	20	34.	2.5	17.
Fluorene	E	650	ug/Kgdrywt	1	20	34.	5.4	17.
Phenanthrene	E	5200	ug/Kgdrywt	1	20	34.	3.0	17.
Anthracene	E	920	ug/Kgdrywt	1	20	34.	2.0	17.
Fluoranthene	E	5700	ug/Kgdrywt	1	20	34.	3.0	17.
Pyrene	E	8800	ug/Kgdrywt	1	20	34.	3.5	17.
Benzo (a) anthracene	E	2600	ug/Kgdrywt	1	20	34.	3.2	17.
Chrysene	E	3000	ug/Kgdrywt	1	20	34.	2.9	17.
Benzo (b) Fluoranthene	E	3000	ug/Kgdrywt	1	20	34.	4.0	17.
Benzo(k)fluoranthene	E	1200	ug/Kgdrywt	1	20	34.	5.2	17.
Benzo(a)pyrene	E	2200	ug/Kgdrywt	1	20	34.	5.6	17.
Indeno (1,2,3-cd) pyrene	E	1600	ug/Kgdrywt	1	20	34.	3.2	17.
Dibenzo (a,h) anthracene		410	ug/Kgdrywt	1	20	34.	3.0	17.
Benzo(g,h,i)perylene	E	1100	ug/Kgdrywt	1	20	34.	3.4	17.
1,1'-Biphenyl	J	27.	ug/Kgdrywt	1	20	34.	1.8	17.
Perylene	E	470	ug/Kgdrywt	1	20	34.	1.4	17.
Dibenzothiophene		280	ug/Kgdrywt	1	20	34.	0.79	17.
2-Methylnaphthalene-D10		39.8	%					
Fluorene-D10		47.8	%					
Pyrene-D10		92.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-31DL
Client ID: OU4-SD-M12-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 56.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	220	ug/Kgdrywt	25	20	840	110	420
Acenaphthylene	U	420	ug/Kgdrywt	25	20	840	50.	420
Acenaphthene	J	660	ug/Kgdrywt	25	20	840	63.	420
Fluorene	J	600	ug/Kgdrywt	25	20	840	130	420
Phenanthrene		4900	ug/Kgdrywt	25	20	840	76.	420
Anthracene		860	ug/Kgdrywt	25	20	840	50.	420
Fluoranthene		6800	ug/Kgdrywt	25	20	840	76.	420
Pyrene		6400	ug/Kgdrywt	25	20	840	88.	420
Benzo (a) anthracene		2400	ug/Kgdrywt	25	20	840	80.	420
Chrysene		3000	ug/Kgdrywt	25	20	840	72.	420
Benzo (b) Fluoranthene		3000	ug/Kgdrywt	25	20	840	100	420
Benzo(k)fluoranthene		1600	ug/Kgdrywt	25	20	840	130	420
Benzo(a)pyrene		2300	ug/Kgdrywt	25	20	840	140	420
Indeno (1,2,3-cd) pyrene		1400	ug/Kgdrywt	25	20	840	80.	420
Dibenzo (a,h) anthracene	J	220	ug/Kgdrywt	25	20	840	76.	420
Benzo(g,h,i)perylene		860	ug/Kgdrywt	25	20	840	84.	420
1,1'-Biphenyl	U	420	ug/Kgdrywt	25	20	840	46.	420
Perylene	U	420	ug/Kgdrywt	25	20	840	34.	420
Dibenzothiophene	U	420	ug/Kgdrywt	25	20	840	20.	420
2-Methylnaphthalene-D10		34.2	%					
Fluorene-D10	*	0.00	%					
Pyrene-D10	*	0.00	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-20
Client ID: OU4-SD-M12-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 04-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 32.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		71.	ug/Kgdrywt	1	20	58.	7.6	29.
Acenaphthylene	J	20.	ug/Kgdrywt	1	20	58.	3.5	29.
Acenaphthene		220	ug/Kgdrywt	1	20	58.	4.4	29.
Fluorene		190	ug/Kgdrywt	1	20	58.	9.3	29.
Phenanthrene	E	1700	ug/Kgdrywt	1	20	58.	5.2	29.
Anthracene		250	ug/Kgdrywt	1	20	58.	3.5	29.
Fluoranthene	E	2500	ug/Kgdrywt	1	20	58.	5.2	29.
Pyrene	E	3000	ug/Kgdrywt	1	20	58.	6.1	29.
Benzo (a) anthracene	E	990	ug/Kgdrywt	1	20	58.	5.5	29.
Chrysene	E	1200	ug/Kgdrywt	1	20	58.	5.0	29.
Benzo (b) Fluoranthene	E	1400	ug/Kgdrywt	1	20	58.	7.0	29.
Benzo(k)fluoranthene		490	ug/Kgdrywt	1	20	58.	9.0	29.
Benzo(a)pyrene	E	900	ug/Kgdrywt	1	20	58.	9.6	29.
Indeno (1,2,3-cd) pyrene		510	ug/Kgdrywt	1	20	58.	5.5	29.
Dibenzo (a,h) anthracene		130	ug/Kgdrywt	1	20	58.	5.2	29.
Benzo(g,h,i)perylene		350	ug/Kgdrywt	1	20	58.	5.8	29.
1,1'-Biphenyl	J	9.0	ug/Kgdrywt	1	20	58.	3.2	29.
Perylene		190	ug/Kgdrywt	1	20	58.	2.4	29.
Dibenzothiophene		100	ug/Kgdrywt	1	20	58.	1.4	29.
2-Methylnaphthalene-D10		33.4	%					
Fluorene-D10		44.9	%					
Pyrene-D10		75.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-20DL
Client ID: OU4-SD-M12-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 09-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 32.
Report Date: 10-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	68.	ug/Kgdrywt	8	20	470	61.	230
Acenaphthylene	U	230	ug/Kgdrywt	8	20	470	28.	230
Acenaphthene	J	210	ug/Kgdrywt	8	20	470	35.	230
Fluorene	J	170	ug/Kgdrywt	8	20	470	75.	230
Phenanthrene		1600	ug/Kgdrywt	8	20	470	42.	230
Anthracene	J	240	ug/Kgdrywt	8	20	470	28.	230
Fluoranthene		2500	ug/Kgdrywt	8	20	470	42.	230
Pyrene		2300	ug/Kgdrywt	8	20	470	49.	230
Benzo (a) anthracene		900	ug/Kgdrywt	8	20	470	44.	230
Chrysene		1200	ug/Kgdrywt	8	20	470	40.	230
Benzo (b) Fluoranthene		1200	ug/Kgdrywt	8	20	470	56.	230
Benzo(k)fluoranthene		530	ug/Kgdrywt	8	20	470	72.	230
Benzo(a)pyrene		920	ug/Kgdrywt	8	20	470	77.	230
Indeno (1,2,3-cd) pyrene		690	ug/Kgdrywt	8	20	470	44.	230
Dibenzo (a,h) anthracene	J	160	ug/Kgdrywt	8	20	470	42.	230
Benzo(g,h,i)perylene		520	ug/Kgdrywt	8	20	470	47.	230
1,1'-Biphenyl	U	230	ug/Kgdrywt	8	20	470	26.	230
Perylene	U	230	ug/Kgdrywt	8	20	470	19.	230
Dibenzothiophene	U	230	ug/Kgdrywt	8	20	470	11.	230
2-Methylnaphthalene-D10		32.9	%					
Fluorene-D10	*	0.00	%					
Pyrene-D10		61.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-19
Client ID: OU4-SD-M12-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 06-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 36.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene		220	ug/Kgdrywt	1	20	47.	6.1	23.
Acenaphthylene	U	23.	ug/Kgdrywt	1	20	47.	2.8	23.
Acenaphthene		560	ug/Kgdrywt	1	20	47.	3.5	23.
Fluorene		600	ug/Kgdrywt	1	20	47.	7.5	23.
Phenanthrene	E	4800	ug/Kgdrywt	1	20	47.	4.2	23.
Anthracene	E	800	ug/Kgdrywt	1	20	47.	2.8	23.
Fluoranthene	E	6200	ug/Kgdrywt	1	20	47.	4.2	23.
Pyrene	E	6700	ug/Kgdrywt	1	20	47.	4.9	23.
Benzo (a) anthracene	E	2200	ug/Kgdrywt	1	20	47.	4.4	23.
Chrysene	E	2500	ug/Kgdrywt	1	20	47.	4.0	23.
Benzo (b) Fluoranthene	E	2800	ug/Kgdrywt	1	20	47.	5.6	23.
Benzo(k)fluoranthene		330	ug/Kgdrywt	1	20	47.	7.2	23.
Benzo(a)pyrene	E	1900	ug/Kgdrywt	1	20	47.	7.7	23.
Indeno (1,2,3-cd) pyrene	E	1200	ug/Kgdrywt	1	20	47.	4.4	23.
Dibenzo (a,h) anthracene		320	ug/Kgdrywt	1	20	47.	4.2	23.
Benzo(g,h,i)perylene	E	830	ug/Kgdrywt	1	20	47.	4.7	23.
1,1'-Biphenyl	J	26.	ug/Kgdrywt	1	20	47.	2.6	23.
Perylene		400	ug/Kgdrywt	1	20	47.	1.9	23.
Dibenzothiophene	U	23.	ug/Kgdrywt	1	20	47.	1.1	23.
2-Methylnaphthalene-D10		40.8	%					
Fluorene-D10		47.8	%					
Pyrene-D10		80.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-19DL
Client ID: OU4-SD-M12-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 05-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 36.
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	J	200	ug/Kgdrywt	25	20	1200	150	580
Acenaphthylene	U	580	ug/Kgdrywt	25	20	1200	70.	580
Acenaphthene	J	550	ug/Kgdrywt	25	20	1200	87.	580
Fluorene	J	590	ug/Kgdrywt	25	20	1200	190	580
Phenanthrene		4500	ug/Kgdrywt	25	20	1200	100	580
Anthracene	J	800	ug/Kgdrywt	25	20	1200	70.	580
Fluoranthene		5600	ug/Kgdrywt	25	20	1200	100	580
Pyrene		5600	ug/Kgdrywt	25	20	1200	120	580
Benzo (a) anthracene		2100	ug/Kgdrywt	25	20	1200	110	580
Chrysene		2700	ug/Kgdrywt	25	20	1200	99.	580
Benzo (b) Fluoranthene		2400	ug/Kgdrywt	25	20	1200	140	580
Benzo(k)fluoranthene		1500	ug/Kgdrywt	25	20	1200	180	580
Benzo(a)pyrene		2000	ug/Kgdrywt	25	20	1200	190	580
Indeno (1,2,3-cd) pyrene		1300	ug/Kgdrywt	25	20	1200	110	580
Dibenzo (a,h) anthracene	J	210	ug/Kgdrywt	25	20	1200	100	580
Benzo(g,h,i)perylene	J	840	ug/Kgdrywt	25	20	1200	120	580
1,1'-Biphenyl	U	580	ug/Kgdrywt	25	20	1200	64.	580
Perylene	U	580	ug/Kgdrywt	25	20	1200	48.	580
Dibenzothiophene	U	580	ug/Kgdrywt	25	20	1200	27.	580
2-Methylnaphthalene-D10		36.3	%					
Fluorene-D10	*	0.00	%					
Pyrene-D10		81.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-32
Client ID: OU4-RB-042011-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90673

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: AQ
% Solids: NA
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	0.024	ug/L	1	.05	0.048	0.0066	0.024
Gamma-BHC	U	0.024	ug/L	1	.05	0.048	0.0068	0.024
Heptachlor	U	0.024	ug/L	1	.05	0.048	0.0076	0.024
Aldrin	U	0.024	ug/L	1	.05	0.048	0.0070	0.024
beta-BHC	U	0.024	ug/L	1	.05	0.048	0.0060	0.024
delta-BHC	U	0.024	ug/L	1	.05	0.048	0.012	0.024
Heptachlor Epoxide	U	0.024	ug/L	1	.05	0.048	0.0070	0.024
Gamma-Chlordane	U	0.024	ug/L	1	.05	0.048	0.0057	0.024
Alpha-Chlordane	U	0.024	ug/L	1	.05	0.048	0.0072	0.024
4,4'-DDE	U	0.048	ug/L	1	.1	0.095	0.0047	0.048
Dieldrin	U	0.048	ug/L	1	.1	0.095	0.0062	0.048
Endrin	U	0.048	ug/L	1	.1	0.095	0.0080	0.048
4,4'-DDD	U	0.048	ug/L	1	.1	0.095	0.0086	0.048
Endosulfan II	U	0.048	ug/L	1	.1	0.095	0.0054	0.048
4,4'-DDT	U	0.048	ug/L	1	.1	0.095	0.0085	0.048
2,4'-DDD	U	0.048	ug/L	1	.1	0.095	0.023	0.048
2,4'-DDE	U	0.048	ug/L	1	.1	0.095	0.022	0.048
2,4'-DDT	U	0.048	ug/L	1	.1	0.095	0.022	0.048
Mirex	U	0.048	ug/L	1	.1	0.095	0.028	0.048
cis-Nonachlor	U	0.048	ug/L	1	.1	0.095	0.024	0.048
trans-Nonachlor	U	0.048	ug/L	1	.1	0.095	0.014	0.048
Oxychlordane	U	0.048	ug/L	1	.1	0.095	0.025	0.048
Hexachlorobenzene	U	0.048	ug/L	1	.1	0.095	0.013	0.048
Tetrachloro-M-Xylene		98.7	%					
Decachlorobiphenyl	*	32.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-33
Client ID: OU4-SB-042011-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90673

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: AQ
% Solids: NA
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	0.027	ug/L	1	.05	0.054	0.0075	0.027
Gamma-BHC	U	0.027	ug/L	1	.05	0.054	0.0078	0.027
Heptachlor	U	0.027	ug/L	1	.05	0.054	0.0087	0.027
Aldrin	U	0.027	ug/L	1	.05	0.054	0.0080	0.027
beta-BHC	U	0.027	ug/L	1	.05	0.054	0.0068	0.027
delta-BHC	U	0.027	ug/L	1	.05	0.054	0.014	0.027
Heptachlor Epoxide	U	0.027	ug/L	1	.05	0.054	0.0080	0.027
Gamma-Chlordane	U	0.027	ug/L	1	.05	0.054	0.0065	0.027
Alpha-Chlordane	U	0.027	ug/L	1	.05	0.054	0.0083	0.027
4,4'-DDE	U	0.054	ug/L	1	.1	0.11	0.0053	0.054
Dieldrin	U	0.054	ug/L	1	.1	0.11	0.0071	0.054
Endrin	U	0.054	ug/L	1	.1	0.11	0.0091	0.054
4,4'-DDD	U	0.054	ug/L	1	.1	0.11	0.0098	0.054
Endosulfan II	U	0.054	ug/L	1	.1	0.11	0.0062	0.054
4,4'-DDT	U	0.054	ug/L	1	.1	0.11	0.0097	0.054
2,4'-DDD	U	0.054	ug/L	1	.1	0.11	0.026	0.054
2,4'-DDE	U	0.054	ug/L	1	.1	0.11	0.025	0.054
2,4'-DDT	U	0.054	ug/L	1	.1	0.11	0.025	0.054
Mirex	U	0.054	ug/L	1	.1	0.11	0.032	0.054
cis-Nonachlor	U	0.054	ug/L	1	.1	0.11	0.027	0.054
trans-Nonachlor	U	0.054	ug/L	1	.1	0.11	0.016	0.054
Oxychlordane	U	0.054	ug/L	1	.1	0.11	0.028	0.054
Hexachlorobenzene	U	0.054	ug/L	1	.1	0.11	0.015	0.054
Tetrachloro-M-Xylene		101.	%					
Decachlorobiphenyl		54.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-28
Client ID: OU4-SD-FD-041911-03
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 05-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 65.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.47	1.2
gamma-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.37	1.2
Heptachlor	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.40	1.2
Aldrin	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.38	1.2
beta-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.45	1.2
delta-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.44	1.2
Heptachlor Epoxide	J	0.70	ug/Kgdrywt	1	1.7	2.3	0.30	1.2
Gamma-Chlordane	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.32	1.2
Alpha-Chlordane	U	1.2	ug/Kgdrywt	1	1.7	2.3	0.29	1.2
4,4'-DDE	J	1.6	ug/Kgdrywt	1	3.3	4.5	0.26	2.3
Dieldrin	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.30	2.3
Endrin	U	2.3	ug/Kgdrywt	1	3.3	4.5	1.2	2.3
4,4'-DDD	J	1.5	ug/Kgdrywt	1	3.3	4.5	0.28	2.3
Endosulfan II	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.47	2.3
4,4'-DDT	J	1.6	ug/Kgdrywt	1	3.3	4.5	0.43	2.3
2,4'-DDD	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.18	2.3
2,4'-DDE	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.22	2.3
2,4'-DDT	J	0.61	ug/Kgdrywt	1	3.3	4.5	0.22	2.3
Mirex	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.23	2.3
cis-Nonachlor	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.19	2.3
trans-Nonachlor	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.11	2.3
Oxychlordane	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.26	2.3
Hexachlorobenzene	U	2.3	ug/Kgdrywt	1	3.3	4.5	0.18	2.3
Tetrachloro-M-Xylene		76.0	%					
Decachlorobiphenyl		69.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-26
Client ID: OU4-SD-M07-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 65.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.45	1.1
gamma-BHC	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.36	1.1
Heptachlor	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.38	1.1
Aldrin	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.37	1.1
beta-BHC	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.43	1.1
delta-BHC	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.42	1.1
Heptachlor Epoxide	J	0.64	ug/Kgdrywt	1	1.7	2.2	0.29	1.1
Gamma-Chlordane	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.30	1.1
Alpha-Chlordane	U	1.1	ug/Kgdrywt	1	1.7	2.2	0.28	1.1
4,4'-DDE	J	1.9	ug/Kgdrywt	1	3.3	4.3	0.25	2.2
Dieldrin	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.29	2.2
Endrin	U	2.2	ug/Kgdrywt	1	3.3	4.3	1.1	2.2
4,4'-DDD	J	2.2	ug/Kgdrywt	1	3.3	4.3	0.26	2.2
Endosulfan II	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.45	2.2
4,4'-DDT	J	3.2	ug/Kgdrywt	1	3.3	4.3	0.41	2.2
2,4'-DDD	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.17	2.2
2,4'-DDE	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.21	2.2
2,4'-DDT	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.21	2.2
Mirex	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.22	2.2
cis-Nonachlor	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.18	2.2
trans-Nonachlor	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.10	2.2
Oxychlordane	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.25	2.2
Hexachlorobenzene	U	2.2	ug/Kgdrywt	1	3.3	4.3	0.17	2.2
Tetrachloro-M-Xylene		81.7	%					
Decachlorobiphenyl		73.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-14
Client ID: OU4-SD-M07-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 34.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.98	2.5
gamma-BHC	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.78	2.5
Heptachlor	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.84	2.5
Aldrin	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.81	2.5
beta-BHC	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.96	2.5
delta-BHC	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.93	2.5
Heptachlor Epoxide	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.64	2.5
Gamma-Chlordane	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.67	2.5
Alpha-Chlordane	U	2.5	ug/Kgdrywt	1	1.7	4.9	0.61	2.5
4,4'-DDE	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.55	4.8
Dieldrin	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.64	4.8
Endrin	U	4.8	ug/Kgdrywt	1	3.3	9.6	2.5	4.8
4,4'-DDD	JJ	2.6	ug/Kgdrywt	1	3.3	9.6	0.58	4.8
Endosulfan II	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.98	4.8
4,4'-DDT	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.90	4.8
2,4'-DDD	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.38	4.8
2,4'-DDE	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.46	4.8
2,4'-DDT	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.46	4.8
Mirex	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.49	4.8
cis-Nonachlor	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.40	4.8
trans-Nonachlor	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.23	4.8
Oxychlordane	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.55	4.8
Hexachlorobenzene	U	4.8	ug/Kgdrywt	1	3.3	9.6	0.38	4.8
Tetrachloro-M-Xylene		78.9	%					
Decachlorobiphenyl		69.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-15
Client ID: OU4-SD-M07-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 35.
Report Date: 03-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.96	2.4
gamma-BHC	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.76	2.4
Heptachlor	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.82	2.4
Aldrin	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.79	2.4
beta-BHC	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.93	2.4
delta-BHC	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.90	2.4
Heptachlor Epoxide	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.62	2.4
Gamma-Chlordane	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.65	2.4
Alpha-Chlordane	U	2.4	ug/Kgdrywt	1	1.7	4.8	0.59	2.4
4,4'-DDE	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.54	4.6
Dieldrin	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.62	4.6
Endrin	U	4.6	ug/Kgdrywt	1	3.3	9.3	2.4	4.6
4,4'-DDD	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.56	4.6
Endosulfan II	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.96	4.6
4,4'-DDT	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.87	4.6
2,4'-DDD	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.37	4.6
2,4'-DDE	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.45	4.6
2,4'-DDT	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.45	4.6
Mirex	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.48	4.6
cis-Nonachlor	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.39	4.6
trans-Nonachlor	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.22	4.6
Oxychlordane	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.54	4.6
Hexachlorobenzene	U	4.6	ug/Kgdrywt	1	3.3	9.3	0.37	4.6
Tetrachloro-M-Xylene		72.6	%					
Decachlorobiphenyl		64.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-29
Client ID: OU4-SD-M08-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 05-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 68.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.49	1.2
gamma-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.39	1.2
Heptachlor	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.42	1.2
Aldrin	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.41	1.2
beta-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.48	1.2
delta-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.46	1.2
Heptachlor Epoxide	J	0.70	ug/Kgdrywt	1	1.7	2.5	0.32	1.2
Gamma-Chlordane	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.33	1.2
Alpha-Chlordane	U	1.2	ug/Kgdrywt	1	1.7	2.5	0.30	1.2
4,4'-DDE	JJ	2.8	ug/Kgdrywt	1	3.3	4.8	0.28	2.4
Dieldrin	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.32	2.4
Endrin	U	2.4	ug/Kgdrywt	1	3.3	4.8	1.2	2.4
4,4'-DDD		16.	ug/Kgdrywt	1	3.3	4.8	0.29	2.4
Endosulfan II	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.49	2.4
4,4'-DDT	J	2.7	ug/Kgdrywt	1	3.3	4.8	0.45	2.4
2,4'-DDD		6.0	ug/Kgdrywt	1	3.3	4.8	0.19	2.4
2,4'-DDE	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.23	2.4
2,4'-DDT	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.23	2.4
Mirex	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.25	2.4
cis-Nonachlor	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.20	2.4
trans-Nonachlor	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.12	2.4
Oxychlordane	U	2.4	ug/Kgdrywt	1	3.3	4.8	0.28	2.4
Hexachlorobenzene	J	0.60	ug/Kgdrywt	1	3.3	4.8	0.19	2.4
Tetrachloro-M-Xylene		79.1	%					
Decachlorobiphenyl		69.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-13
Client ID: OU4-SD-M08-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 53.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.64	1.6
gamma-BHC	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.51	1.6
Heptachlor	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.55	1.6
Aldrin	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.53	1.6
beta-BHC	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.62	1.6
delta-BHC	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.61	1.6
Heptachlor Epoxide	JJ	1.7	ug/Kgdrywt	1	1.7	3.2	0.42	1.6
Gamma-Chlordane	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.44	1.6
Alpha-Chlordane	U	1.6	ug/Kgdrywt	1	1.7	3.2	0.40	1.6
4,4'-DDE	J	7.0	ug/Kgdrywt	1	3.3	6.2	0.36	3.1
Dieldrin	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.42	3.1
Endrin	U	3.1	ug/Kgdrywt	1	3.3	6.2	1.6	3.1
4,4'-DDD		44.	ug/Kgdrywt	1	3.3	6.2	0.38	3.1
Endosulfan II	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.64	3.1
4,4'-DDT		16.	ug/Kgdrywt	1	3.3	6.2	0.59	3.1
2,4'-DDD	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.25	3.1
2,4'-DDE	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.30	3.1
2,4'-DDT	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.30	3.1
Mirex	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.32	3.1
cis-Nonachlor	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.26	3.1
trans-Nonachlor	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.15	3.1
Oxychlordane	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.36	3.1
Hexachlorobenzene	U	3.1	ug/Kgdrywt	1	3.3	6.2	0.25	3.1
Tetrachloro-M-Xylene		73.8	%					
Decachlorobiphenyl		69.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-27
Client ID: OU4-SD-M08-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 69.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.47	1.2
gamma-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.37	1.2
Heptachlor	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.40	1.2
Aldrin	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.39	1.2
beta-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.46	1.2
delta-BHC	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.44	1.2
Heptachlor Epoxide	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.30	1.2
Gamma-Chlordane	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.32	1.2
Alpha-Chlordane	U	1.2	ug/Kgdrywt	1	1.7	2.4	0.29	1.2
4,4'-DDE	J	0.92	ug/Kgdrywt	1	3.3	4.6	0.26	2.3
Dieldrin	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.30	2.3
Endrin	U	2.3	ug/Kgdrywt	1	3.3	4.6	1.2	2.3
4,4'-DDD	J	4.2	ug/Kgdrywt	1	3.3	4.6	0.28	2.3
Endosulfan II	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.47	2.3
4,4'-DDT	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.43	2.3
2,4'-DDD	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.18	2.3
2,4'-DDE	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.22	2.3
2,4'-DDT	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.22	2.3
Mirex	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.24	2.3
cis-Nonachlor	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.19	2.3
trans-Nonachlor	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.11	2.3
Oxychlordane	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.26	2.3
Hexachlorobenzene	U	2.3	ug/Kgdrywt	1	3.3	4.6	0.18	2.3
Tetrachloro-M-Xylene		75.3	%					
Decachlorobiphenyl		69.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-30
Client ID: OU4-SD-M09-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 05-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 28.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	2.9	ug/Kgdrywt	1	1.7	5.8	1.2	2.9
gamma-BHC	U	2.9	ug/Kgdrywt	1	1.7	5.8	0.92	2.9
Heptachlor	U	2.9	ug/Kgdrywt	1	1.7	5.8	0.99	2.9
Aldrin	U	2.9	ug/Kgdrywt	1	1.7	5.8	0.95	2.9
beta-BHC	U	2.9	ug/Kgdrywt	1	1.7	5.8	1.1	2.9
delta-BHC	U	2.9	ug/Kgdrywt	1	1.7	5.8	1.1	2.9
Heptachlor Epoxide	U	2.9	ug/Kgdrywt	1	1.7	5.8	0.75	2.9
Gamma-Chlordane	U	2.9	ug/Kgdrywt	1	1.7	5.8	0.78	2.9
Alpha-Chlordane	U	2.9	ug/Kgdrywt	1	1.7	5.8	0.72	2.9
4,4'-DDE	JJ	3.9	ug/Kgdrywt	1	3.3	11.	0.65	5.6
Dieldrin	U	5.6	ug/Kgdrywt	1	3.3	11.	0.75	5.6
Endrin	U	5.6	ug/Kgdrywt	1	3.3	11.	2.9	5.6
4,4'-DDD	JJ	7.0	ug/Kgdrywt	1	3.3	11.	0.68	5.6
Endosulfan II	U	5.6	ug/Kgdrywt	1	3.3	11.	1.2	5.6
4,4'-DDT	JJ	4.1	ug/Kgdrywt	1	3.3	11.	1.0	5.6
2,4'-DDD	U	5.6	ug/Kgdrywt	1	3.3	11.	0.44	5.6
2,4'-DDE	U	5.6	ug/Kgdrywt	1	3.3	11.	0.54	5.6
2,4'-DDT	U	5.6	ug/Kgdrywt	1	3.3	11.	0.54	5.6
Mirex	U	5.6	ug/Kgdrywt	1	3.3	11.	0.58	5.6
cis-Nonachlor	U	5.6	ug/Kgdrywt	1	3.3	11.	0.48	5.6
trans-Nonachlor	U	5.6	ug/Kgdrywt	1	3.3	11.	0.27	5.6
Oxychlordane	U	5.6	ug/Kgdrywt	1	3.3	11.	0.65	5.6
Hexachlorobenzene	U	5.6	ug/Kgdrywt	1	3.3	11.	0.44	5.6
Tetrachloro-M-Xylene		66.7	%					
Decachlorobiphenyl		77.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-11
Client ID: OU4-SD-M09-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 28.
Report Date: 03-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	3.0	ug/Kgdrywt	1	1.7	6.1	1.2	3.0
gamma-BHC	U	3.0	ug/Kgdrywt	1	1.7	6.1	0.97	3.0
Heptachlor	U	3.0	ug/Kgdrywt	1	1.7	6.1	1.0	3.0
Aldrin	U	3.0	ug/Kgdrywt	1	1.7	6.1	1.0	3.0
beta-BHC	U	3.0	ug/Kgdrywt	1	1.7	6.1	1.2	3.0
delta-BHC	U	3.0	ug/Kgdrywt	1	1.7	6.1	1.1	3.0
Heptachlor Epoxide	U	3.0	ug/Kgdrywt	1	1.7	6.1	0.79	3.0
Gamma-Chlordane	U	3.0	ug/Kgdrywt	1	1.7	6.1	0.82	3.0
Alpha-Chlordane	U	3.0	ug/Kgdrywt	1	1.7	6.1	0.75	3.0
4,4'-DDE	U	5.9	ug/Kgdrywt	1	3.3	12.	0.68	5.9
Dieldrin	U	5.9	ug/Kgdrywt	1	3.3	12.	0.79	5.9
Endrin	U	5.9	ug/Kgdrywt	1	3.3	12.	3.0	5.9
4,4'-DDD	U	5.9	ug/Kgdrywt	1	3.3	12.	0.72	5.9
Endosulfan II	U	5.9	ug/Kgdrywt	1	3.3	12.	1.2	5.9
4,4'-DDT	U	5.9	ug/Kgdrywt	1	3.3	12.	1.1	5.9
2,4'-DDD	U	5.9	ug/Kgdrywt	1	3.3	12.	0.46	5.9
2,4'-DDE	U	5.9	ug/Kgdrywt	1	3.3	12.	0.57	5.9
2,4'-DDT	U	5.9	ug/Kgdrywt	1	3.3	12.	0.57	5.9
Mirex	U	5.9	ug/Kgdrywt	1	3.3	12.	0.61	5.9
cis-Nonachlor	U	5.9	ug/Kgdrywt	1	3.3	12.	0.50	5.9
trans-Nonachlor	U	5.9	ug/Kgdrywt	1	3.3	12.	0.29	5.9
Oxychlordane	U	5.9	ug/Kgdrywt	1	3.3	12.	0.68	5.9
Hexachlorobenzene	J	2.1	ug/Kgdrywt	1	3.3	12.	0.46	5.9
Tetrachloro-M-Xylene		73.9	%					
Decachlorobiphenyl		63.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-12
Client ID: OU4-SD-M09-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 26.
Report Date: 06-JUN-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	3.1	ug/Kgdrywt	1	1.7	6.2	1.2	3.1
gamma-BHC	U	3.1	ug/Kgdrywt	1	1.7	6.2	0.99	3.1
Heptachlor	U	3.1	ug/Kgdrywt	1	1.7	6.2	1.1	3.1
Aldrin	U	3.1	ug/Kgdrywt	1	1.7	6.2	1.0	3.1
beta-BHC	U	3.1	ug/Kgdrywt	1	1.7	6.2	1.2	3.1
delta-BHC	U	3.1	ug/Kgdrywt	1	1.7	6.2	1.2	3.1
Heptachlor Epoxide	U	3.1	ug/Kgdrywt	1	1.7	6.2	0.80	3.1
Gamma-Chlordane	U	3.1	ug/Kgdrywt	1	1.7	6.2	0.84	3.1
Alpha-Chlordane	U	3.1	ug/Kgdrywt	1	1.7	6.2	0.77	3.1
4,4'-DDE	JJ	3.0	ug/Kgdrywt	1	3.3	12.	0.70	6.0
Dieldrin	U	6.0	ug/Kgdrywt	1	3.3	12.	0.80	6.0
Endrin	U	6.0	ug/Kgdrywt	1	3.3	12.	3.1	6.0
4,4'-DDD	JJ	5.0	ug/Kgdrywt	1	3.3	12.	0.73	6.0
Endosulfan II	U	6.0	ug/Kgdrywt	1	3.3	12.	1.2	6.0
4,4'-DDT	U	6.0	ug/Kgdrywt	1	3.3	12.	1.1	6.0
2,4'-DDD	U	6.0	ug/Kgdrywt	1	3.3	12.	0.48	6.0
2,4'-DDE	U	6.0	ug/Kgdrywt	1	3.3	12.	0.58	6.0
2,4'-DDT	U	6.0	ug/Kgdrywt	1	3.3	12.	0.58	6.0
Mirex	U	6.0	ug/Kgdrywt	1	3.3	12.	0.62	6.0
cis-Nonachlor	U	6.0	ug/Kgdrywt	1	3.3	12.	0.51	6.0
trans-Nonachlor	U	6.0	ug/Kgdrywt	1	3.3	12.	0.29	6.0
Oxychlordane	U	6.0	ug/Kgdrywt	1	3.3	12.	0.70	6.0
Hexachlorobenzene	U	6.0	ug/Kgdrywt	1	3.3	12.	0.48	6.0
Tetrachloro-M-Xylene		71.0	%					
Decachlorobiphenyl		69.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-32
Client ID: OU4-RB-042011-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90689

Analysis Date: 05-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: AQ
% Solids: NA
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.048	ug/L	1	.1	0.095	0.042	0.048
PCB 18	U	0.048	ug/L	1	.1	0.095	0.017	0.048
PCB 28	U	0.048	ug/L	1	.1	0.095	0.027	0.048
PCB 44	U	0.0076	ug/L	1	.01	0.0095	0.0062	0.0076
PCB 52	U	0.0048	ug/L	1	.01	0.0095	0.0026	0.0048
PCB 66	U	0.0048	ug/L	1	.01	0.0095	0.0033	0.0048
PCB 101	U	0.0086	ug/L	1	.01	0.0095	0.0077	0.0086
PCB 105	U	0.0048	ug/L	1	.01	0.0095	0.0028	0.0048
PCB 118	U	0.0048	ug/L	1	.01	0.0095	0.0022	0.0048
PCB 128	U	0.0076	ug/L	1	.01	0.0095	0.0052	0.0076
PCB 138	U	0.0048	ug/L	1	.01	0.0095	0.0022	0.0048
PCB 153	U	0.0048	ug/L	1	.01	0.0095	0.0012	0.0048
PCB 170	U	0.0048	ug/L	1	.01	0.0095	0.0020	0.0048
PCB 180	U	0.0048	ug/L	1	.01	0.0095	0.0046	0.0048
PCB 187	U	0.0076	ug/L	1	.01	0.0095	0.0070	0.0076
PCB 195	U	0.048	ug/L	1	.1	0.095	0.0095	0.048
PCB 206	U	0.0048	ug/L	1	.01	0.0095	0.0022	0.0048
PCB 209 (DCB)	U	0.0048	ug/L	1	.01	0.0095	0.0023	0.0048
PCB 114	U	0.0048	ug/L	1	.01	0.0095	0.0015	0.0048
PCB 123	U	0.014	ug/L	1	.02	0.019	0.0095	0.014
PCB 126	U	0.048	ug/L	1	.1	0.095	0.015	0.048
PCB 156	U	0.0048	ug/L	1	.01	0.0095	0.0012	0.0048
PCB 167	U	0.0048	ug/L	1	.01	0.0095	0.0046	0.0048
PCB 169	U	0.0048	ug/L	1	.01	0.0095	0.0067	0.0048
PCB 189	U	0.048	ug/L	1	.1	0.095	0.012	0.048
PCB 157	U	0.0048	ug/L	1	.01	0.0095	0.0030	0.0048
PCB 77	U	0.0048	ug/L	1	.01	0.0095	0.0030	0.0048
PCB 81	U	0.0048	ug/L	1	.01	0.0095	0.0039	0.0048
Tetrachloro-M-Xylene		85.3	%					
PCB 103		91.6	%					
PCB 192		91.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-33
Client ID: OU4-SB-042011-01
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 20-APR-11
Received Date: 20-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90689

Analysis Date: 05-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: AQ
% Solids: NA
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.048	ug/L	1	.1	0.095	0.042	0.048
PCB 18	U	0.048	ug/L	1	.1	0.095	0.017	0.048
PCB 28	U	0.048	ug/L	1	.1	0.095	0.027	0.048
PCB 44	U	0.0076	ug/L	1	.01	0.0095	0.0062	0.0076
PCB 52	U	0.0048	ug/L	1	.01	0.0095	0.0026	0.0048
PCB 66	U	0.0048	ug/L	1	.01	0.0095	0.0033	0.0048
PCB 101	U	0.0086	ug/L	1	.01	0.0095	0.0077	0.0086
PCB 105	U	0.0048	ug/L	1	.01	0.0095	0.0028	0.0048
PCB 118	U	0.0048	ug/L	1	.01	0.0095	0.0022	0.0048
PCB 128	U	0.0076	ug/L	1	.01	0.0095	0.0052	0.0076
PCB 138	U	0.0048	ug/L	1	.01	0.0095	0.0022	0.0048
PCB 153	U	0.0048	ug/L	1	.01	0.0095	0.0012	0.0048
PCB 170	U	0.0048	ug/L	1	.01	0.0095	0.0020	0.0048
PCB 180	U	0.0048	ug/L	1	.01	0.0095	0.0046	0.0048
PCB 187	U	0.0076	ug/L	1	.01	0.0095	0.0070	0.0076
PCB 195	U	0.048	ug/L	1	.1	0.095	0.0095	0.048
PCB 206	U	0.0048	ug/L	1	.01	0.0095	0.0022	0.0048
PCB 209 (DCB)	U	0.0048	ug/L	1	.01	0.0095	0.0023	0.0048
PCB 114	U	0.0048	ug/L	1	.01	0.0095	0.0015	0.0048
PCB 123	U	0.014	ug/L	1	.02	0.019	0.0095	0.014
PCB 126	U	0.048	ug/L	1	.1	0.095	0.015	0.048
PCB 156	U	0.0048	ug/L	1	.01	0.0095	0.0012	0.0048
PCB 167	U	0.0048	ug/L	1	.01	0.0095	0.0046	0.0048
PCB 169	U	0.0048	ug/L	1	.01	0.0095	0.0067	0.0048
PCB 189	U	0.048	ug/L	1	.1	0.095	0.012	0.048
PCB 157	U	0.0048	ug/L	1	.01	0.0095	0.0030	0.0048
PCB 77	U	0.0048	ug/L	1	.01	0.0095	0.0030	0.0048
PCB 81	U	0.0048	ug/L	1	.01	0.0095	0.0039	0.0048
Tetrachloro-M-Xylene		93.2	%					
PCB 103		93.7	%					
PCB 192		93.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-28
Client ID: OU4-SD-FD-041911-03
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 65.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.76	ug/Kgdrywt	2	1	1.5	0.55	0.76
PCB 18	U	3.0	ug/Kgdrywt	2	3	4.6	2.7	3.0
PCB 28	U	0.76	ug/Kgdrywt	2	1	1.5	0.24	0.76
PCB 44	U	0.76	ug/Kgdrywt	2	1	1.5	0.099	0.76
PCB 52	U	0.76	ug/Kgdrywt	2	1	1.5	0.11	0.76
PCB 66	U	0.76	ug/Kgdrywt	2	1	1.5	0.13	0.76
PCB 101	U	0.76	ug/Kgdrywt	2	1	1.5	0.64	0.76
PCB 105	U	1.5	ug/Kgdrywt	2	2	3.0	1.2	1.5
PCB 118	U	0.76	ug/Kgdrywt	2	1	1.5	0.10	0.76
PCB 128	U	0.76	ug/Kgdrywt	2	1	1.5	0.17	0.76
PCB 138	U	0.76	ug/Kgdrywt	2	1	1.5	0.14	0.76
PCB 153	U	0.76	ug/Kgdrywt	2	1	1.5	0.082	0.76
PCB 170	U	0.76	ug/Kgdrywt	2	1	1.5	0.15	0.76
PCB 180	U	0.76	ug/Kgdrywt	2	1	1.5	0.24	0.76
PCB 187	U	0.76	ug/Kgdrywt	2	1	1.5	0.17	0.76
PCB 195	U	0.76	ug/Kgdrywt	2	1	1.5	0.084	0.76
PCB 206	U	0.76	ug/Kgdrywt	2	1	1.5	0.10	0.76
PCB 209 (DCB)	U	0.76	ug/Kgdrywt	2	1	1.5	0.097	0.76
PCB 114	U	0.76	ug/Kgdrywt	2	1	1.5	0.14	0.76
PCB 123	U	0.76	ug/Kgdrywt	2	1	1.5	0.24	0.76
PCB 126	U	0.76	ug/Kgdrywt	2	1	1.5	0.24	0.76
PCB 156	U	0.76	ug/Kgdrywt	2	1	1.5	0.17	0.76
PCB 167	U	0.76	ug/Kgdrywt	2	1	1.5	0.088	0.76
PCB 169	U	0.76	ug/Kgdrywt	2	1	1.5	0.20	0.76
PCB 189	U	0.76	ug/Kgdrywt	2	1	1.5	0.10	0.76
PCB 157	U	0.76	ug/Kgdrywt	2	1	1.5	0.12	0.76
PCB 77	U	0.76	ug/Kgdrywt	2	1	1.5	0.30	0.76
PCB 81	U	0.76	ug/Kgdrywt	2	1	1.5	0.38	0.76
Tetrachloro-M-Xylene		55.6	%					
PCB 103		54.0	%					
PCB 192		59.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-26
Client ID: OU4-SD-M07-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 65.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	1.5	ug/Kgdrywt	2	1	3.0	1.1	1.5
PCB 18	U	6.0	ug/Kgdrywt	2	3	9.0	5.4	6.0
PCB 28	U	1.5	ug/Kgdrywt	2	1	3.0	0.48	1.5
PCB 44	U	1.5	ug/Kgdrywt	2	1	3.0	0.20	1.5
PCB 52	U	1.5	ug/Kgdrywt	2	1	3.0	0.22	1.5
PCB 66	U	1.5	ug/Kgdrywt	2	1	3.0	0.25	1.5
PCB 101	U	1.5	ug/Kgdrywt	2	1	3.0	1.3	1.5
PCB 105	U	3.0	ug/Kgdrywt	2	2	6.0	2.5	3.0
PCB 118	U	1.5	ug/Kgdrywt	2	1	3.0	0.20	1.5
PCB 128	U	1.5	ug/Kgdrywt	2	1	3.0	0.33	1.5
PCB 138	U	1.5	ug/Kgdrywt	2	1	3.0	0.28	1.5
PCB 153	U	1.5	ug/Kgdrywt	2	1	3.0	0.16	1.5
PCB 170	U	1.5	ug/Kgdrywt	2	1	3.0	0.30	1.5
PCB 180	U	1.5	ug/Kgdrywt	2	1	3.0	0.48	1.5
PCB 187	U	1.5	ug/Kgdrywt	2	1	3.0	0.33	1.5
PCB 195	U	1.5	ug/Kgdrywt	2	1	3.0	0.16	1.5
PCB 206	U	1.5	ug/Kgdrywt	2	1	3.0	0.21	1.5
PCB 209 (DCB)	U	1.5	ug/Kgdrywt	2	1	3.0	0.19	1.5
PCB 114	U	1.5	ug/Kgdrywt	2	1	3.0	0.27	1.5
PCB 123	U	1.5	ug/Kgdrywt	2	1	3.0	0.48	1.5
PCB 126	U	1.5	ug/Kgdrywt	2	1	3.0	0.48	1.5
PCB 156	U	1.5	ug/Kgdrywt	2	1	3.0	0.33	1.5
PCB 167	U	1.5	ug/Kgdrywt	2	1	3.0	0.17	1.5
PCB 169	U	1.5	ug/Kgdrywt	2	1	3.0	0.39	1.5
PCB 189	U	1.5	ug/Kgdrywt	2	1	3.0	0.21	1.5
PCB 157	U	1.5	ug/Kgdrywt	2	1	3.0	0.24	1.5
PCB 77	U	1.5	ug/Kgdrywt	2	1	3.0	0.60	1.5
PCB 81	U	1.5	ug/Kgdrywt	2	1	3.0	0.75	1.5
Tetrachloro-M-Xylene		67.0	%					
PCB 103		64.5	%					
PCB 192		67.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-14
Client ID: OU4-SD-M07-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 34.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	1.4	ug/Kgdrywt	2	1	2.8	1.0	1.4
PCB 18	U	5.6	ug/Kgdrywt	2	3	8.5	5.1	5.6
PCB 28	U	1.4	ug/Kgdrywt	2	1	2.8	0.45	1.4
PCB 44	U	1.4	ug/Kgdrywt	2	1	2.8	0.18	1.4
PCB 52	U	1.4	ug/Kgdrywt	2	1	2.8	0.21	1.4
PCB 66	J	3.0	ug/Kgdrywt	2	1	2.8	0.24	1.4
PCB 101	U	1.4	ug/Kgdrywt	2	1	2.8	1.2	1.4
PCB 105	U	2.8	ug/Kgdrywt	2	2	5.6	2.3	2.8
PCB 118	J	1.4	ug/Kgdrywt	2	1	2.8	0.19	1.4
PCB 128	U	1.4	ug/Kgdrywt	2	1	2.8	0.31	1.4
PCB 138	U	1.4	ug/Kgdrywt	2	1	2.8	0.26	1.4
PCB 153	J	1.9	ug/Kgdrywt	2	1	2.8	0.15	1.4
PCB 170	J	0.74	ug/Kgdrywt	2	1	2.8	0.28	1.4
PCB 180	JJ	1.9	ug/Kgdrywt	2	1	2.8	0.45	1.4
PCB 187	U	1.4	ug/Kgdrywt	2	1	2.8	0.31	1.4
PCB 195	U	1.4	ug/Kgdrywt	2	1	2.8	0.16	1.4
PCB 206	J	0.83	ug/Kgdrywt	2	1	2.8	0.19	1.4
PCB 209 (DCB)	U	1.4	ug/Kgdrywt	2	1	2.8	0.18	1.4
PCB 114	U	1.4	ug/Kgdrywt	2	1	2.8	0.25	1.4
PCB 123	U	1.4	ug/Kgdrywt	2	1	2.8	0.45	1.4
PCB 126	U	1.4	ug/Kgdrywt	2	1	2.8	0.45	1.4
PCB 156	U	1.4	ug/Kgdrywt	2	1	2.8	0.31	1.4
PCB 167	U	1.4	ug/Kgdrywt	2	1	2.8	0.16	1.4
PCB 169	U	1.4	ug/Kgdrywt	2	1	2.8	0.37	1.4
PCB 189	U	1.4	ug/Kgdrywt	2	1	2.8	0.19	1.4
PCB 157	U	1.4	ug/Kgdrywt	2	1	2.8	0.22	1.4
PCB 77		3.1	ug/Kgdrywt	2	1	2.8	0.56	1.4
PCB 81	U	1.4	ug/Kgdrywt	2	1	2.8	0.70	1.4
Tetrachloro-M-Xylene		64.9	%					
PCB 103		55.3	%					
PCB 192		62.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-15
Client ID: OU4-SD-M07-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 35.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	1.4	ug/Kgdrywt	2	1	2.7	0.98	1.4
PCB 18	U	5.4	ug/Kgdrywt	2	3	8.2	4.9	5.4
PCB 28	U	1.4	ug/Kgdrywt	2	1	2.7	0.44	1.4
PCB 44	U	1.4	ug/Kgdrywt	2	1	2.7	0.18	1.4
PCB 52	U	1.4	ug/Kgdrywt	2	1	2.7	0.20	1.4
PCB 66	U	1.4	ug/Kgdrywt	2	1	2.7	0.23	1.4
PCB 101	U	1.4	ug/Kgdrywt	2	1	2.7	[illegible].1	1.4
PCB 105	U	2.7	ug/Kgdrywt	2	2	5.4	2.2	2.7
PCB 118	J	0.71	ug/Kgdrywt	2	1	2.7	0.18	1.4
PCB 128	U	1.4	ug/Kgdrywt	2	1	2.7	0.30	1.4
PCB 138	U	1.4	ug/Kgdrywt	2	1	2.7	0.25	1.4
PCB 153	J	1.5	ug/Kgdrywt	2	1	2.7	0.15	1.4
PCB 170	J	0.75	ug/Kgdrywt	2	1	2.7	0.27	1.4
PCB 180	JJ	1.8	ug/Kgdrywt	2	1	2.7	0.44	1.4
PCB 187	U	1.4	ug/Kgdrywt	2	1	2.7	0.30	1.4
PCB 195	U	1.4	ug/Kgdrywt	2	1	2.7	0.15	1.4
PCB 206	J	0.34	ug/Kgdrywt	2	1	2.7	0.19	1.4
PCB 209 (DCB)	U	1.4	ug/Kgdrywt	2	1	2.7	0.17	1.4
PCB 114	J	1.2	ug/Kgdrywt	2	1	2.7	0.24	1.4
PCB 123	U	1.4	ug/Kgdrywt	2	1	2.7	0.44	1.4
PCB 126	U	1.4	ug/Kgdrywt	2	1	2.7	0.44	1.4
PCB 156	U	1.4	ug/Kgdrywt	2	1	2.7	0.30	1.4
PCB 167	U	1.4	ug/Kgdrywt	2	1	2.7	0.16	1.4
PCB 169	U	1.4	ug/Kgdrywt	2	1	2.7	0.35	1.4
PCB 189	U	1.4	ug/Kgdrywt	2	1	2.7	0.19	1.4
PCB 157	U	1.4	ug/Kgdrywt	2	1	2.7	0.22	1.4
PCB 77	U	1.4	ug/Kgdrywt	2	1	2.7	0.54	1.4
PCB 81	U	1.4	ug/Kgdrywt	2	1	2.7	0.68	1.4
Tetrachloro-M-Xylene		60.4	%					
PCB 103	*	49.9	%					
PCB 192		59.3	%					

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-29
Client ID: OU4-SD-M08-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 68.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.72	ug/Kgdrywt	2	1	1.4	0.52	0.72
PCB 18	U	2.9	ug/Kgdrywt	2	3	4.4	2.6	2.9
PCB 28	U	0.72	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 44	U	0.72	ug/Kgdrywt	2	1	1.4	0.094	0.72
PCB 52	U	0.72	ug/Kgdrywt	2	1	1.4	0.11	0.72
PCB 66	J	0.61	ug/Kgdrywt	2	1	1.4	0.12	0.72
PCB 101	U	0.72	ug/Kgdrywt	2	1	1.4	0.51	0.72
PCB 105	U	1.4	ug/Kgdrywt	2	2	2.9	1.2	1.4
PCB 118	J	0.44	ug/Kgdrywt	2	1	1.4	0.097	0.72
PCB 128	U	0.72	ug/Kgdrywt	2	1	1.4	0.16	0.72
PCB 138	U	0.72	ug/Kgdrywt	2	1	1.4	0.13	0.72
PCB 153	U	0.72	ug/Kgdrywt	2	1	1.4	0.078	0.72
PCB 170	JJ	0.70	ug/Kgdrywt	2	1	1.4	0.14	0.72
PCB 180	JJ	1.2	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 187	U	0.72	ug/Kgdrywt	2	1	1.4	0.16	0.72
PCB 195	U	0.72	ug/Kgdrywt	2	1	1.4	0.080	0.72
PCB 206	JJ	0.36	ug/Kgdrywt	2	1	1.4	0.10	0.72
PCB 209 (DCB)	U	0.72	ug/Kgdrywt	2	1	1.4	0.093	0.72
PCB 114	U	0.72	ug/Kgdrywt	2	1	1.4	0.13	0.72
PCB 123	U	0.72	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 126	U	0.72	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 156	U	0.72	ug/Kgdrywt	2	1	1.4	0.16	0.72
PCB 167	U	0.72	ug/Kgdrywt	2	1	1.4	0.084	0.72
PCB 169	U	0.72	ug/Kgdrywt	2	1	1.4	0.19	0.72
PCB 189	U	0.72	ug/Kgdrywt	2	1	1.4	0.10	0.72
PCB 157	U	0.72	ug/Kgdrywt	2	1	1.4	0.12	0.72
PCB 77	U	0.72	ug/Kgdrywt	2	1	1.4	0.29	0.72
PCB 81	J	0.62	ug/Kgdrywt	2	1	1.4	0.36	0.72
Tetrachloro-M-Xylene		70.6	%					
PCB 103		62.4	%					
PCB 192		71.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-13
Client ID: OU4-SD-M08-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 53.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.90	ug/Kgdrywt	2	1	1.8	0.65	0.90
PCB 18	U	3.6	ug/Kgdrywt	2	3	5.4	3.3	3.6
PCB 28	U	0.90	ug/Kgdrywt	2	1	1.8	0.29	0.90
PCB 44	J	0.46	ug/Kgdrywt	2	1	1.8	0.12	0.90
PCB 52	JJ	0.87	ug/Kgdrywt	2	1	1.8	0.14	0.90
PCB 66		2.4	ug/Kgdrywt	2	1	1.8	0.15	0.90
PCB 101	J	1.6	ug/Kgdrywt	2	1	1.8	0.76	0.90
PCB 105	U	1.8	ug/Kgdrywt	2	2	3.6	1.5	1.8
PCB 118	J	1.8	ug/Kgdrywt	2	1	1.8	0.12	0.90
PCB 128	U	0.90	ug/Kgdrywt	2	1	1.8	0.20	0.90
PCB 138	U	0.90	ug/Kgdrywt	2	1	1.8	0.17	0.90
PCB 153	U	0.90	ug/Kgdrywt	2	1	1.8	0.098	0.90
PCB 170	U	0.90	ug/Kgdrywt	2	1	1.8	0.18	0.90
PCB 180	J	4.3	ug/Kgdrywt	2	1	1.8	0.29	0.90
PCB 187	J	1.7	ug/Kgdrywt	2	1	1.8	0.20	0.90
PCB 195	U	0.90	ug/Kgdrywt	2	1	1.8	0.10	0.90
PCB 206	J	2.4	ug/Kgdrywt	2	1	1.8	0.12	0.90
PCB 209 (DCB)	J	0.72	ug/Kgdrywt	2	1	1.8	0.12	0.90
PCB 114	U	0.90	ug/Kgdrywt	2	1	1.8	0.16	0.90
PCB 123	U	0.90	ug/Kgdrywt	2	1	1.8	0.29	0.90
PCB 126	U	0.90	ug/Kgdrywt	2	1	1.8	0.29	0.90
PCB 156	U	0.90	ug/Kgdrywt	2	1	1.8	0.20	0.90
PCB 167	U	0.90	ug/Kgdrywt	2	1	1.8	0.10	0.90
PCB 169	J	3.2	ug/Kgdrywt	2	1	1.8	0.24	0.90
PCB 189	U	0.90	ug/Kgdrywt	2	1	1.8	0.12	0.90
PCB 157	U	0.90	ug/Kgdrywt	2	1	1.8	0.14	0.90
PCB 77	U	0.90	ug/Kgdrywt	2	1	1.8	0.36	0.90
PCB 81		3.2	ug/Kgdrywt	2	1	1.8	0.45	0.90
Tetrachloro-M-Xylene		62.8	%					
PCB 103		54.2	%					
PCB 192		69.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-27
Client ID: OU4-SD-M08-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 69.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.72	ug/Kgdrywt	2	1	1.4	0.52	0.72
PCB 18	U	2.9	ug/Kgdrywt	2	3	4.4	2.6	2.9
PCB 28	U	0.72	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 44	U	0.72	ug/Kgdrywt	2	1	1.4	0.094	0.72
PCB 52	U	0.72	ug/Kgdrywt	2	1	1.4	0.11	0.72
PCB 66	J	0.45	ug/Kgdrywt	2	1	1.4	0.12	0.72
PCB 101	U	0.72	ug/Kgdrywt	2	1	1.4	0.61	0.72
PCB 105	U	1.4	ug/Kgdrywt	2	2	2.9	1.2	1.4
PCB 118	U	0.72	ug/Kgdrywt	2	1	1.4	0.097	0.72
PCB 128	U	0.72	ug/Kgdrywt	2	1	1.4	0.16	0.72
PCB 138	U	0.72	ug/Kgdrywt	2	1	1.4	0.13	0.72
PCB 153	U	0.72	ug/Kgdrywt	2	1	1.4	0.078	0.72
PCB 170	JJ	1.2	ug/Kgdrywt	2	1	1.4	0.14	0.72
PCB 180	J	2.3	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 187	JJ	1.2	ug/Kgdrywt	2	1	1.4	0.16	0.72
PCB 195	U	0.72	ug/Kgdrywt	2	1	1.4	0.080	0.72
PCB 206	JJ	0.21	ug/Kgdrywt	2	1	1.4	0.10	0.72
PCB 209 (DCB)	U	0.72	ug/Kgdrywt	2	1	1.4	0.093	0.72
PCB 114	U	0.72	ug/Kgdrywt	2	1	1.4	0.13	0.72
PCB 123	U	0.72	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 126	U	0.72	ug/Kgdrywt	2	1	1.4	0.23	0.72
PCB 156	U	0.72	ug/Kgdrywt	2	1	1.4	0.16	0.72
PCB 167	U	0.72	ug/Kgdrywt	2	1	1.4	0.084	0.72
PCB 169	U	0.72	ug/Kgdrywt	2	1	1.4	0.19	0.72
PCB 189	U	0.72	ug/Kgdrywt	2	1	1.4	0.10	0.72
PCB 157	U	0.72	ug/Kgdrywt	2	1	1.4	0.12	0.72
PCB 77	U	0.72	ug/Kgdrywt	2	1	1.4	0.29	0.72
PCB 81	U	0.72	ug/Kgdrywt	2	1	1.4	0.36	0.72
Tetrachloro-M-Xylene		68.6	%					
PCB 103		63.7	%					
PCB 192		71.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-30
Client ID: OU4-SD-M09-111B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 28.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	1.7	ug/Kgdrywt	2	1	3.4	1.2	1.7
PCB 18	U	6.8	ug/Kgdrywt	2	3	10.	6.1	6.8
PCB 28	U	1.7	ug/Kgdrywt	2	1	3.4	0.54	1.7
PCB 44	U	1.7	ug/Kgdrywt	2	1	3.4	0.22	1.7
PCB 52	U	1.7	ug/Kgdrywt	2	1	3.4	0.26	1.7
PCB 66	JJ	2.8	ug/Kgdrywt	2	1	3.4	0.29	1.7
PCB 101	J	3.2	ug/Kgdrywt	2	1	3.4	1.4	1.7
PCB 105	JJ	3.4	ug/Kgdrywt	2	2	6.8	2.8	3.4
PCB 118	J	4.7	ug/Kgdrywt	2	1	3.4	0.23	1.7
PCB 128	U	1.7	ug/Kgdrywt	2	1	3.4	0.37	1.7
PCB 138	J	3.3	ug/Kgdrywt	2	1	3.4	0.32	1.7
PCB 153		4.2	ug/Kgdrywt	2	1	3.4	0.18	1.7
PCB 170	U	1.7	ug/Kgdrywt	2	1	3.4	0.34	1.7
PCB 180	J	3.4	ug/Kgdrywt	2	1	3.4	0.54	1.7
PCB 187	JJ	2.9	ug/Kgdrywt	2	1	3.4	0.37	1.7
PCB 195	U	1.7	ug/Kgdrywt	2	1	3.4	0.19	1.7
PCB 206	J	29.	ug/Kgdrywt	2	1	3.4	0.24	1.7
PCB 209 (DCB)		6.7	ug/Kgdrywt	2	1	3.4	0.22	1.7
PCB 114	U	1.7	ug/Kgdrywt	2	1	3.4	0.31	1.7
PCB 123	U	1.7	ug/Kgdrywt	2	1	3.4	0.54	1.7
PCB 126	U	1.7	ug/Kgdrywt	2	1	3.4	0.54	1.7
PCB 156	U	1.7	ug/Kgdrywt	2	1	3.4	0.37	1.7
PCB 167	U	1.7	ug/Kgdrywt	2	1	3.4	0.20	1.7
PCB 169	U	1.7	ug/Kgdrywt	2	1	3.4	0.44	1.7
PCB 189	U	1.7	ug/Kgdrywt	2	1	3.4	0.24	1.7
PCB 157	U	1.7	ug/Kgdrywt	2	1	3.4	0.27	1.7
PCB 77	U	1.7	ug/Kgdrywt	2	1	3.4	0.68	1.7
PCB 81	U	1.7	ug/Kgdrywt	2	1	3.4	0.85	1.7
Tetrachloro-M-Xylene	*	47.6	%					
PCB 103	*	39.7	%					
PCB 192		50.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-11
Client ID: OU4-SD-M09-211B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 28.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	1.8	ug/Kgdrywt	2	1	3.5	1.3	1.8
PCB 18	U	7.1	ug/Kgdrywt	2	3	11.	6.4	7.1
PCB 28	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 44	U	1.8	ug/Kgdrywt	2	1	3.5	0.23	1.8
PCB 52	U	1.8	ug/Kgdrywt	2	1	3.5	0.26	1.8
PCB 66	U	1.8	ug/Kgdrywt	2	1	3.5	0.30	1.8
PCB 101	U	1.8	ug/Kgdrywt	2	1	3.5	1.5	1.8
PCB 105	U	3.5	ug/Kgdrywt	2	2	7.1	2.9	3.5
PCB 118	J	1.6	ug/Kgdrywt	2	1	3.5	0.24	1.8
PCB 128	U	1.8	ug/Kgdrywt	2	1	3.5	0.39	1.8
PCB 138	U	1.8	ug/Kgdrywt	2	1	3.5	0.33	1.8
PCB 153	J	2.6	ug/Kgdrywt	2	1	3.5	0.19	1.8
PCB 170	U	1.8	ug/Kgdrywt	2	1	3.5	0.35	1.8
PCB 180	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 187	U	1.8	ug/Kgdrywt	2	1	3.5	0.39	1.8
PCB 195	U	1.8	ug/Kgdrywt	2	1	3.5	0.19	1.8
PCB 206	U	1.8	ug/Kgdrywt	2	1	3.5	0.24	1.8
PCB 209 (DCB)	U	1.8	ug/Kgdrywt	2	1	3.5	0.23	1.8
PCB 114	U	1.8	ug/Kgdrywt	2	1	3.5	0.32	1.8
PCB 123	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 126	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 156	U	1.8	ug/Kgdrywt	2	1	3.5	0.39	1.8
PCB 167	U	1.8	ug/Kgdrywt	2	1	3.5	0.20	1.8
PCB 169	J	2.1	ug/Kgdrywt	2	1	3.5	0.46	1.8
PCB 189	U	1.8	ug/Kgdrywt	2	1	3.5	0.24	1.8
PCB 157	U	1.8	ug/Kgdrywt	2	1	3.5	0.28	1.8
PCB 77		4.2	ug/Kgdrywt	2	1	3.5	0.71	1.8
PCB 81	U	1.8	ug/Kgdrywt	2	1	3.5	0.88	1.8
Tetrachloro-M-Xylene		55.5	%					
PCB 103		54.7	%					
PCB 192		61.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SE2074-12
Client ID: OU4-SD-M09-311B
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Date: 19-APR-11
Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 26.
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	1.8	ug/Kgdrywt	2	1	3.5	1.3	1.8
PCB 18	U	7.0	ug/Kgdrywt	2	3	10.	6.3	7.0
PCB 28	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 44	J	0.70	ug/Kgdrywt	2	1	3.5	0.23	1.8
PCB 52	J	0.93	ug/Kgdrywt	2	1	3.5	0.26	1.8
PCB 66	J	3.0	ug/Kgdrywt	2	1	3.5	0.30	1.8
PCB 101	J	5.0	ug/Kgdrywt	2	1	3.5	1.5	1.8
PCB 105	U	3.5	ug/Kgdrywt	2	2	7.0	2.9	3.5
PCB 118	J	1.7	ug/Kgdrywt	2	1	3.5	0.24	1.8
PCB 128	U	1.8	ug/Kgdrywt	2	1	3.5	0.39	1.8
PCB 138	U	1.8	ug/Kgdrywt	2	1	3.5	0.33	1.8
PCB 153		3.6	ug/Kgdrywt	2	1	3.5	0.19	1.8
PCB 170	U	1.8	ug/Kgdrywt	2	1	3.5	0.35	1.8
PCB 180	J	3.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 187	U	1.8	ug/Kgdrywt	2	1	3.5	0.39	1.8
PCB 195	U	1.8	ug/Kgdrywt	2	1	3.5	0.19	1.8
PCB 206	J	7.2	ug/Kgdrywt	2	1	3.5	0.24	1.8
PCB 209 (DCB)	J	1.6	ug/Kgdrywt	2	1	3.5	0.22	1.8
PCB 114	U	1.8	ug/Kgdrywt	2	1	3.5	0.32	1.8
PCB 123	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 126	U	1.8	ug/Kgdrywt	2	1	3.5	0.56	1.8
PCB 156	U	1.8	ug/Kgdrywt	2	1	3.5	0.39	1.8
PCB 167	U	1.8	ug/Kgdrywt	2	1	3.5	0.20	1.8
PCB 169	J	3.3	ug/Kgdrywt	2	1	3.5	0.46	1.8
PCB 189	U	1.8	ug/Kgdrywt	2	1	3.5	0.24	1.8
PCB 157	U	1.8	ug/Kgdrywt	2	1	3.5	0.28	1.8
PCB 77	J	8.9	ug/Kgdrywt	2	1	3.5	0.70	1.8
PCB 81	U	1.8	ug/Kgdrywt	2	1	3.5	0.88	1.8
Tetrachloro-M-Xylene	*	48.3	%					
PCB 103	*	39.9	%					
PCB 192		54.7	%					

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SGS

Results of **OU4-RB-042011-01**

Client Sample ID: **OU4-RB-042011-01**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958013-A
Lab Project ID: 31100958

Collection Date: 04/20/2011 13:50
Received Date: 04/26/2011 11:55
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.00527	0.0102	ng/L		
1,2,3,7,8-PeCDD	ND		U	0.00247	0.0508	ng/L		
1,2,3,4,7,8-HxCDD	ND		U	0.00302	0.0508	ng/L		
1,2,3,6,7,8-HxCDD	ND		U	0.00323	0.0508	ng/L		
1,2,3,7,8,9-HxCDD	ND		U	0.00327	0.0508	ng/L		
1,2,3,4,6,7,8-HpCDD	ND		U	0.00387	0.0508	ng/L		
OCDD	ND		U	0.00514	0.102	ng/L		
2,3,7,8-TCDF	ND		U	0.00577	0.0102	ng/L		
1,2,3,7,8-PeCDF	ND		U	0.00201	0.0508	ng/L		
2,3,4,7,8-PeCDF	ND		U	0.00197	0.0508	ng/L		
1,2,3,4,7,8-HxCDF	ND		U	0.00254	0.0508	ng/L		
1,2,3,6,7,8-HxCDF	ND		U	0.00234	0.0508	ng/L		
2,3,4,6,7,8-HxCDF	ND		U	0.00240	0.0508	ng/L		
1,2,3,7,8,9-HxCDF	ND		U	0.00333	0.0508	ng/L		
1,2,3,4,6,7,8-HpCDF	ND		U	0.00225	0.0508	ng/L		
1,2,3,4,7,8,9-HpCDF	ND		U	0.00327	0.0508	ng/L		
OCDF	ND		U	0.00440	0.102	ng/L		
Total TCDD	ND		U	0.00527	0.0102	ng/L		
Total TCDF	ND		U	0.00577	0.0102	ng/L		
Total PeCDD	ND		U	0.00247	0.0508	ng/L		
Total PeCDF	ND		U	0.00201	0.0508	ng/L		
Total HxCDD	ND		U	0.00327	0.0508	ng/L		
Total HxCDF	ND		U	0.00333	0.0508	ng/L		
Total HpCDD	ND		U	0.00387	0.0508	ng/L		
Total HpCDF	ND		U	0.00327	0.0508	ng/L		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	ng/L	0.00	0.00555	0.0111
WHO-2005 TEQ w/EMPC	ng/L	0.00	0.00555	0.0111

Print Date: 05/11/2011

N.C. Certification # 481

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Results of **OU4-RB-042011-01**

Client Sample ID: **OU4-RB-042011-01**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958013-A
Lab Project ID: 31100958

Collection Date: 04/20/2011 13:50
Received Date: 04/26/2011 11:55
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	56.0				25.0-164	%		
13C-12378-PeCDD	88.0				25.0-181	%		
13C-123478-HxCDD	96.0				32.0-141	%		
13C-123678-HxCDD	83.0				28.0-130	%		
13C-1234678-HpCDD	92.0				23.0-140	%		
13C-OCDD	85.0				17.0-157	%		
13C-2378-TCDF	49.0				24.0-169	%		
13C-12378-PeCDF	92.0				24.0-185	%		
13C-23478-PeCDF	99.0				21.0-178	%		
13C-123478-HxCDF	98.0				26.0-152	%		
13C-123678-HxCDF	96.0				26.0-123	%		
13C-234678-HxCDF	99.0				29.0-147	%		
13C-123789-HxCDF	91.0				28.0-136	%		
13C-1234678-HpCDF	100				28.0-143	%		
13C-1234789-HpCDF	95.0				26.0-138	%		
37Cl-2378-TCDD	57.0				50.0-150	%		

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 15:16**
Dilution: **1**

Prep Batch: **HXX1090**
Prep Method: **EPA 1613B**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **984 mL**
Prep Extract Vol: **20 uL**

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Results of **OU4-SB-042011-01**

Client Sample ID: **OU4-SB-042011-01**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958014-A
Lab Project ID: 31100958

Collection Date: 04/20/2011 14:00
Received Date: 04/26/2011 11:55
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.00414	0.0115	ng/L		
1,2,3,7,8-PeCDD	ND		U	0.00244	0.0575	ng/L		
1,2,3,4,7,8-HxCDD	ND		U	0.00261	0.0575	ng/L		
1,2,3,6,7,8-HxCDD	ND		U	0.00289	0.0575	ng/L		
1,2,3,7,8,9-HxCDD	ND		U	0.00287	0.0575	ng/L		
1,2,3,4,6,7,8-HpCDD	ND		U	0.00350	0.0575	ng/L		
OCDD	ND		U	0.00458	0.115	ng/L		
2,3,7,8-TCDF	ND		U	0.00455	0.0115	ng/L		
1,2,3,7,8-PeCDF	ND		U	0.00208	0.0575	ng/L		
2,3,4,7,8-PeCDF	ND		U	0.00196	0.0575	ng/L		
1,2,3,4,7,8-HxCDF	ND		U	0.00209	0.0575	ng/L		
1,2,3,6,7,8-HxCDF	ND		U	0.00200	0.0575	ng/L		
2,3,4,6,7,8-HxCDF	ND		U	0.00210	0.0575	ng/L		
1,2,3,7,8,9-HxCDF	ND		U	0.00286	0.0575	ng/L		
1,2,3,4,6,7,8-HpCDF	ND		U	0.00226	0.0575	ng/L		
1,2,3,4,7,8,9-HpCDF	ND		U	0.00332	0.0575	ng/L		
OCDF	ND		U	0.00531	0.115	ng/L		
Total TCDD	ND		U	0.00414	0.0115	ng/L		
Total TCDF	ND		U	0.00455	0.0115	ng/L		
Total PeCDD	ND		U	0.00244	0.0575	ng/L		
Total PeCDF	ND		U	0.00208	0.0575	ng/L		
Total HxCDD	ND		U	0.00289	0.0575	ng/L		
Total HxCDF	ND		U	0.00286	0.0575	ng/L		
Total HpCDD	ND		U	0.00350	0.0575	ng/L		
Total HpCDF	ND		U	0.00332	0.0575	ng/L		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	ng/L	0.00	0.00476	0.00952
WHO-2005 TEQ w/EMPC	ng/L	0.00	0.00476	0.00952

Print Date: 05/11/2011

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Results of **OU4-SB-042011-01**

Client Sample ID: **OU4-SB-042011-01**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958014-A
Lab Project ID: 31100958

Collection Date: 04/20/2011 14:00
Received Date: 04/26/2011 11:55
Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	76.0				25.0-164	%		
13C-12378-PeCDD	91.0				25.0-181	%		
13C-123478-HxCDD	100				32.0-141	%		
13C-123678-HxCDD	88.0				28.0-130	%		
13C-1234678-HpCDD	97.0				23.0-140	%		
13C-OCDD	89.0				17.0-157	%		
13C-2378-TCDF	72.0				24.0-169	%		
13C-12378-PeCDF	95.0				24.0-185	%		
13C-23478-PeCDF	100				21.0-178	%		
13C-123478-HxCDF	100				26.0-152	%		
13C-123678-HxCDF	100				26.0-123	%		
13C-234678-HxCDF	110				29.0-147	%		
13C-123789-HxCDF	100				28.0-136	%		
13C-1234678-HpCDF	110				28.0-143	%		
13C-1234789-HpCDF	100				26.0-138	%		
37Cl-2378-TCDD	75.0				50.0-150	%		

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 16:06**
Dilution: **1**

Prep Batch: **HXX1090**
Prep Method: **EPA 1613B**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **870 mL**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-FD-041911-03**

Client Sample ID: **OU4-SD-FD-041911-03**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958008-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 00:00
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 66

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.424	0.424	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.686	1.77	pg/g		
1,2,3,4,7,8-HxCDD		0.315	J	0.315	1.77	pg/g	36.40	0.84*
1,2,3,6,7,8-HxCDD		1.40	J	0.707	1.77	pg/g	36.47	0.88*
1,2,3,7,8,9-HxCDD	ND		U	0.714	1.77	pg/g		
1,2,3,4,6,7,8-HpCDD	**28.7**			0.736	1.77	pg/g	39.66	1.04
OCDD	**266**			0.853	3.54	pg/g	43.72	0.88
2,3,7,8-TCDF [confirm]	**0.869**			0.0860	0.354	pg/g	17.80	0.82
2,3,7,8-TCDF	**1.21**			0.786	0.786	pg/g	29.69	0.62
1,2,3,7,8-PeCDF	ND		U	0.315	1.77	pg/g		
2,3,4,7,8-PeCDF		0.679	J	0.297	1.77	pg/g	33.63	1.22*
1,2,3,4,7,8-HxCDF	**0.632**		J	0.458	1.77	pg/g	35.67	1.15
1,2,3,6,7,8-HxCDF	**0.570**		J	0.494	1.77	pg/g	35.76	1.12
2,3,4,6,7,8-HxCDF		0.741	J	0.510	1.77	pg/g	36.27	1.49*
1,2,3,7,8,9-HxCDF	ND		U	0.672	1.77	pg/g		
1,2,3,4,6,7,8-HpCDF	**7.79**			0.339	1.77	pg/g	38.44	1.10
1,2,3,4,7,8,9-HpCDF	ND		U	0.513	1.77	pg/g		
OCDF	**14.7**			0.564	3.54	pg/g	44.01	0.94
Total TCDD	**1.59**			0.494	0.494	pg/g		
Total TCDF	**0.366**	1.90		0.366	0.366	pg/g		
Total PeCDD	**2.51**	3.14		0.686	1.77	pg/g		
Total PeCDF	**2.89**	5.11		0.315	1.77	pg/g		
Total HxCDD	**11.3**	13.0		0.714	1.77	pg/g		
Total HxCDF	**7.25**	7.99		0.672	1.77	pg/g		
Total HpCDD	**83.4**			0.984	1.77	pg/g		
Total HpCDF	**21.4**			0.603	1.77	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	0.656	1.41	2.16
WHO-2005 TEQ w/EMPC	pg/g	1.11	1.74	2.37

Print Date: 05/11/2011

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Results of **OU4-SD-FD-041911-03**

Client Sample ID: **OU4-SD-FD-041911-03**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958008-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 00:00
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 66

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	93.0				25.0-164	%		
13C-12378-PeCDD	100				25.0-181	%		
13C-123478-HxCDD	105				32.0-141	%		
13C-123678-HxCDD	87.0				28.0-130	%		
13C-1234678-HpCDD	108				23.0-140	%		
13C-OCDD	102				17.0-157	%		
13C-2378-TCDF	97.0				24.0-169	%		
13C-12378-PeCDF	105				24.0-185	%		
13C-23478-PeCDF	115				21.0-178	%		
13C-123478-HxCDF	113				26.0-152	%		
13C-123678-HxCDF	104				26.0-123	%		
13C-234678-HxCDF	110				29.0-147	%		
13C-123789-HxCDF	102				28.0-136	%		
13C-1234678-HpCDF	120				28.0-143	%		
13C-1234789-HpCDF	113				26.0-138	%		
37Cl-2378-TCDD	95.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 17:06**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **21.31 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1103**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 11:44**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **21.31 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M07-111B**

Client Sample ID: **OU4-SD-M07-111B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958006-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 18:20
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 66

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.167	0.370	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.241	1.85	pg/g		
1,2,3,4,7,8-HxCDD		0.358	J	0.235	1.85	pg/g	36.31	1.89*
1,2,3,6,7,8-HxCDD	**1.14**		J	0.245	1.85	pg/g	36.41	1.31
1,2,3,7,8,9-HxCDD		0.821	J	0.250	1.85	pg/g	36.63	1.51*
1,2,3,4,6,7,8-HpCDD	**23.8**			0.514	1.85	pg/g	39.57	1.07
OCDD	**239**			0.877	3.70	pg/g	43.59	0.87
2,3,7,8-TCDF	**0.887**			0.248	0.370	pg/g	29.72	0.83
2,3,7,8-TCDF [confirm]	**0.812**			0.217	0.370	pg/g	17.75	0.71
1,2,3,7,8-PeCDF		0.268	J	0.268	1.85	pg/g	32.98	1.90*
2,3,4,7,8-PeCDF		0.500	J	0.237	1.85	pg/g	33.59	1.81*
1,2,3,4,7,8-HxCDF	**0.495**		J	0.141	1.85	pg/g	35.62	1.37
1,2,3,6,7,8-HxCDF	**0.420**		J	0.141	1.85	pg/g	35.72	1.07
2,3,4,6,7,8-HxCDF	**0.651**		J	0.149	1.85	pg/g	36.19	1.25
1,2,3,7,8,9-HxCDF	ND		U	0.211	1.85	pg/g		
1,2,3,4,6,7,8-HpCDF	**6.79**			0.184	1.85	pg/g	38.37	1.04
1,2,3,4,7,8,9-HpCDF		0.245	J	0.245	1.85	pg/g	40.24	0.47*
OCDF	**13.2**			0.316	3.70	pg/g	43.87	0.94
Total TCDD	**1.52**			0.194	0.370	pg/g		
Total TCDF	**1.96**	3.34		0.248	0.370	pg/g		
Total PeCDD	**1.85**	2.75		0.296	1.85	pg/g		
Total PeCDF	**3.08**	4.09		0.276	1.85	pg/g		
Total HxCDD	**10.7**	12.9		0.250	1.85	pg/g		
Total HxCDF	**7.69**	8.02		0.211	1.85	pg/g		
Total HpCDD	**69.5**			0.688	1.85	pg/g		
Total HpCDF	**19.7**	20.5		0.334	1.85	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	0.733	1.01	1.29
WHO-2005 TEQ w/EMPC	pg/g	1.01	1.23	1.44

Print Date: 05/11/2011

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Results of **OU4-SD-M07-111B**

Client Sample ID: **OU4-SD-M07-111B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958006-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 18:20
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 66

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	86.0				25.0-164	%		
13C-12378-PeCDD	92.0				25.0-181	%		
13C-123478-HxCDD	94.0				32.0-141	%		
13C-123678-HxCDD	93.0				28.0-130	%		
13C-1234678-HpCDD	93.0				23.0-140	%		
13C-OCDD	81.0				17.0-157	%		
13C-2378-TCDF	91.0				24.0-169	%		
13C-12378-PeCDF	88.0				24.0-185	%		
13C-23478-PeCDF	104				21.0-178	%		
13C-123478-HxCDF	106				26.0-152	%		
13C-123678-HxCDF	105				26.0-123	%		
13C-234678-HxCDF	105				29.0-147	%		
13C-123789-HxCDF	99.0				28.0-136	%		
13C-1234678-HpCDF	110				28.0-143	%		
13C-1234789-HpCDF	95.0				26.0-138	%		
37Cl-2378-TCDD	86.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 21:58**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.64 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1103**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 14:23**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.64 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M07-211B**

Client Sample ID: **OU4-SD-M07-211B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958004-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 12:10
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 38

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.311	0.636	pg/g		
1,2,3,7,8-PeCDD		0.425	J	0.338	3.18	pg/g	33.79	1.24*
1,2,3,4,7,8-HxCDD		0.562	J	0.562	3.18	pg/g	36.31	1.57*
1,2,3,6,7,8-HxCDD	**2.14**		J	0.632	3.18	pg/g	36.40	1.31
1,2,3,7,8,9-HxCDD	**1.48**		J	0.650	3.18	pg/g	36.62	1.19
1,2,3,4,6,7,8-HpCDD	**44.6**			0.958	3.18	pg/g	39.59	1.06
OCDD	**325**			1.35	6.36	pg/g	43.62	0.89
2,3,7,8-TCDF	**1.48**			0.637	0.637	pg/g	29.72	0.73
2,3,7,8-TCDF [confirm]	**1.30**			0.589	0.636	pg/g	18.40	0.92
1,2,3,7,8-PeCDF		0.473	J	0.428	3.18	pg/g	32.99	1.05*
2,3,4,7,8-PeCDF	**1.02**		J	0.328	3.18	pg/g	33.59	1.75
1,2,3,4,7,8-HxCDF		0.880	J	0.372	3.18	pg/g	35.64	1.44*
1,2,3,6,7,8-HxCDF		0.620	J	0.355	3.18	pg/g	35.73	1.02*
2,3,4,6,7,8-HxCDF		0.869	J	0.383	3.18	pg/g	36.21	0.91*
1,2,3,7,8,9-HxCDF	ND		U	0.541	3.18	pg/g		
1,2,3,4,6,7,8-HpCDF	**12.7**			0.345	3.18	pg/g	38.39	1.00
1,2,3,4,7,8,9-HpCDF		0.541	J	0.533	3.18	pg/g	40.21	1.89*
OCDF	**27.0**			1.35	6.36	pg/g	43.88	0.93
Total TCDD	ND	1.61		0.311	0.636	pg/g		
Total TCDF	**1.71**	4.23		1.71	1.71	pg/g		
Total PeCDD	**3.30**	4.41		3.30	3.30	pg/g		
Total PeCDF	**6.03**	6.84		3.19	3.19	pg/g		
Total HxCDD	**19.7**	21.1		12.9	12.9	pg/g		
Total HxCDF	**10.9**	13.9		10.9	10.9	pg/g		
Total HpCDD	**120**			120	120	pg/g		
Total HpCDF	**43.0**	44.3		43.0	43.0	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	1.48	1.92	2.37
WHO-2005 TEQ w/EMPC	pg/g	2.21	2.40	2.58

Print Date: 05/11/2011

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Results of **OU4-SD-M07-211B**

Client Sample ID: **OU4-SD-M07-211B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958004-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 12:10
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 38

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	75.0				25.0-164	%		
13C-12378-PeCDD	76.0				25.0-181	%		
13C-123478-HxCDD	83.0				32.0-141	%		
13C-123678-HxCDD	85.0				28.0-130	%		
13C-1234678-HpCDD	87.0				23.0-140	%		
13C-OCDD	76.0				17.0-157	%		
13C-2378-TCDF	78.0				24.0-169	%		
13C-12378-PeCDF	67.0				24.0-185	%		
13C-23478-PeCDF	86.0				21.0-178	%		
13C-123478-HxCDF	94.0				26.0-152	%		
13C-123678-HxCDF	96.0				26.0-123	%		
13C-234678-HxCDF	97.0				29.0-147	%		
13C-123789-HxCDF	90.0				28.0-136	%		
13C-1234678-HpCDF	99.0				28.0-143	%		
13C-1234789-HpCDF	87.0				26.0-138	%		
37Cl-2378-TCDD	78.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **KAS**
Analytical Date/Time: **05/04/2011 20:18**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.77 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1107**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/10/2011 14:16**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.77 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M07-311B**

Client Sample ID: **OU4-SD-M07-311B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958005-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 12:25
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 38

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.290	0.652	pg/g		
1,2,3,7,8-PeCDD	**0.477**		J	0.321	3.26	pg/g	33.80	1.32
1,2,3,4,7,8-HxCDD		0.586	J	0.454	3.26	pg/g	36.33	1.64*
1,2,3,6,7,8-HxCDD	**2.17**		J	0.471	3.26	pg/g	36.42	1.12
1,2,3,7,8,9-HxCDD		1.30	J	0.483	3.26	pg/g	36.64	1.47*
1,2,3,4,6,7,8-HpCDD	**68.2**			1.19	3.26	pg/g	39.58	1.04
OCDD	**675**			1.61	6.52	pg/g	43.61	0.88
2,3,7,8-TCDF	**1.42**			0.481	0.652	pg/g	29.72	0.63
2,3,7,8-TCDF [confirm]	**1.69**			1.10	1.10	pg/g	18.36	0.92
1,2,3,7,8-PeCDF	**0.370**		J	0.249	3.26	pg/g	32.97	1.72
2,3,4,7,8-PeCDF	**0.868**		J	0.240	3.26	pg/g	33.60	1.55
1,2,3,4,7,8-HxCDF		0.821	J	0.440	3.26	pg/g	35.64	1.55*
1,2,3,6,7,8-HxCDF		0.526	J	0.431	3.26	pg/g	35.73	1.04*
2,3,4,6,7,8-HxCDF		0.969	J	0.456	3.26	pg/g	36.19	1.57*
1,2,3,7,8,9-HxCDF	ND		U	0.618	3.26	pg/g		
1,2,3,4,6,7,8-HpCDF	**15.6**			0.335	3.26	pg/g	38.38	1.05
1,2,3,4,7,8,9-HpCDF	**0.790**		J	0.525	3.26	pg/g	40.24	1.05
OCDF	**91.8**			0.650	6.52	pg/g	43.88	0.91
Total TCDD	**2.74**	3.08		0.339	0.652	pg/g		
Total TCDF	**2.23**	5.07		0.481	0.652	pg/g		
Total PeCDD	**4.76**			0.395	3.26	pg/g		
Total PeCDF	**4.55**	6.49		0.249	3.26	pg/g		
Total HxCDD	**19.9**	22.2		0.483	3.26	pg/g		
Total HxCDF	**9.92**	13.6		0.618	3.26	pg/g		
Total HpCDD	**169**			1.60	3.26	pg/g		
Total HpCDF	**66.9**	67.5		0.602	3.26	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	2.21	2.50	2.79
WHO-2005 TEQ w/EMPC	pg/g	2.63	2.81	2.98

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Results of **OU4-SD-M07-311B**

Client Sample ID: **OU4-SD-M07-311B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958005-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 12:25
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 38

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	85.0				25.0-164	%		
13C-12378-PeCDD	89.0				25.0-181	%		
13C-123478-HxCDD	97.0				32.0-141	%		
13C-123678-HxCDD	86.0				28.0-130	%		
13C-1234678-HpCDD	89.0				23.0-140	%		
13C-OCDD	88.0				17.0-157	%		
13C-2378-TCDF	88.0				24.0-169	%		
13C-12378-PeCDF	92.0				24.0-185	%		
13C-23478-PeCDF	100				21.0-178	%		
13C-123478-HxCDF	98.0				26.0-152	%		
13C-123678-HxCDF	103				26.0-123	%		
13C-234678-HxCDF	103				29.0-147	%		
13C-123789-HxCDF	97.0				28.0-136	%		
13C-1234678-HpCDF	106				28.0-143	%		
13C-1234789-HpCDF	93.0				26.0-138	%		
37Cl-2378-TCDD	85.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 21:08**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.25 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1107**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/10/2011 14:48**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.25 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M08-111B**

Client Sample ID: **OU4-SD-M08-111B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958009-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 19:00
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 71

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.415	0.415	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.357	1.70	pg/g		
1,2,3,4,7,8-HxCDD	ND		U	0.622	1.70	pg/g		
1,2,3,6,7,8-HxCDD	ND		U	0.659	1.70	pg/g		
1,2,3,7,8,9-HxCDD	ND		U	0.669	1.70	pg/g		
1,2,3,4,6,7,8-HpCDD	**15.7**			0.634	1.70	pg/g	39.65	1.04
OCDD	**117**			0.788	3.40	pg/g	43.72	0.91
2,3,7,8-TCDF [confirm]	**0.864**			0.172	0.340	pg/g	17.79	0.88
2,3,7,8-TCDF	**0.869**			0.747	0.747	pg/g	29.75	0.64
1,2,3,7,8-PeCDF	ND		U	0.517	1.70	pg/g		
2,3,4,7,8-PeCDF	**0.683**		J	0.487	1.70	pg/g	33.63	1.37
1,2,3,4,7,8-HxCDF	**0.490**		J	0.404	1.70	pg/g	35.67	1.13
1,2,3,6,7,8-HxCDF	**0.503**		J	0.388	1.70	pg/g	35.78	1.34
2,3,4,6,7,8-HxCDF	**0.630**		J	0.433	1.70	pg/g	36.26	1.35
1,2,3,7,8,9-HxCDF	ND		U	0.591	1.70	pg/g		
1,2,3,4,6,7,8-HpCDF		5.28		0.355	1.70	pg/g	38.45	1.21*
1,2,3,4,7,8,9-HpCDF	ND		U	0.519	1.70	pg/g		
OCDF	**7.99**			0.599	3.40	pg/g	43.98	0.84
Total TCDD	**0.918**			0.484	0.484	pg/g		
Total TCDF	**1.88**	2.99		0.747	0.747	pg/g		
Total PeCDD	ND	1.25		0.357	1.70	pg/g		
Total PeCDF	**3.72**	4.45		1.46	1.70	pg/g		
Total HxCDD	**6.39**			0.669	1.70	pg/g		
Total HxCDF	**6.03**	6.59		0.591	1.70	pg/g		
Total HpCDD	**47.6**			0.848	1.70	pg/g		
Total HpCDF	ND	10.8		0.618	1.70	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	0.648	1.17	1.70
WHO-2005 TEQ w/EMPC	pg/g	0.701	1.22	1.75

Print Date: 05/11/2011

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Results of **OU4-SD-M08-111B**

Client Sample ID: **OU4-SD-M08-111B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958009-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 19:00
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 71

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	85.0				25.0-164	%		
13C-12378-PeCDD	89.0				25.0-181	%		
13C-123478-HxCDD	97.0				32.0-141	%		
13C-123678-HxCDD	79.0				28.0-130	%		
13C-1234678-HpCDD	96.0				23.0-140	%		
13C-OCDD	84.0				17.0-157	%		
13C-2378-TCDF	91.0				24.0-169	%		
13C-12378-PeCDF	94.0				24.0-185	%		
13C-23478-PeCDF	101				21.0-178	%		
13C-123478-HxCDF	108				26.0-152	%		
13C-123678-HxCDF	101				26.0-123	%		
13C-234678-HxCDF	100				29.0-147	%		
13C-123789-HxCDF	97.0				28.0-136	%		
13C-1234678-HpCDF	107				28.0-143	%		
13C-1234789-HpCDF	98.0				26.0-138	%		
37Cl-2378-TCDD	84.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **KAS**
Analytical Date/Time: **05/09/2011 17:56**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.68 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1103**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 12:16**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.68 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M08-211B**

Client Sample ID: **OU4-SD-M08-211B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958003-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 11:42
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 56

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.231	0.427	pg/g		
1,2,3,7,8-PeCDD	**0.975**		J	0.632	2.14	pg/g	33.79	1.59
1,2,3,4,7,8-HxCDD		1.04	J	0.417	2.14	pg/g	36.33	1.72*
1,2,3,6,7,8-HxCDD	**3.11**			0.441	2.14	pg/g	36.41	1.26
1,2,3,7,8,9-HxCDD	**1.68**		J	0.448	2.14	pg/g	36.65	1.08
1,2,3,4,6,7,8-HpCDD	**56.9**			0.953	2.14	pg/g	39.58	1.03
OCDD	**378**			1.25	4.27	pg/g	43.60	0.88
2,3,7,8-TCDF	**2.41**			0.700	0.700	pg/g	29.72	0.64
2,3,7,8-TCDF [confirm]	**2.48**			0.424	0.427	pg/g	18.41	0.76
1,2,3,7,8-PeCDF		1.47	J	1.47	2.14	pg/g	32.98	1.86*
2,3,4,7,8-PeCDF	**3.92**			1.45	2.14	pg/g	33.59	1.57
1,2,3,4,7,8-HxCDF	**3.32**			0.260	2.14	pg/g	35.63	1.10
1,2,3,6,7,8-HxCDF	**2.76**			0.262	2.14	pg/g	35.73	1.11
2,3,4,6,7,8-HxCDF	**3.53**			0.288	2.14	pg/g	36.19	1.20
1,2,3,7,8,9-HxCDF	**0.926**		J	0.392	2.14	pg/g	36.97	1.18
1,2,3,4,6,7,8-HpCDF	**22.3**			0.309	2.14	pg/g	38.38	1.04
1,2,3,4,7,8,9-HpCDF	**1.52**		J	0.507	2.14	pg/g	40.20	0.91
OCDF	**30.0**			0.492	4.27	pg/g	43.87	0.92
Total TCDD	**6.68**	7.59		0.269	0.427	pg/g		
Total TCDF	**21.6**	27.6		0.700	0.700	pg/g		
Total PeCDD	**11.3**	16.1		0.778	2.14	pg/g		
Total PeCDF	**28.3**	29.8		1.60	2.14	pg/g		
Total HxCDD	**32.7**	34.4		0.448	2.14	pg/g		
Total HxCDF	**37.3**	37.6		0.392	2.14	pg/g		
Total HpCDD	**157**			1.27	2.14	pg/g		
Total HpCDF	**56.3**	58.9		0.565	2.14	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	4.86	5.02	5.18
WHO-2005 TEQ w/EMPC	pg/g	5.01	5.13	5.24

Print Date: 05/11/2011

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Results of **OU4-SD-M08-211B**

Client Sample ID: **OU4-SD-M08-211B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958003-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 11:42
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 56

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	86.0				25.0-164	%		
13C-12378-PeCDD	80.0				25.0-181	%		
13C-123478-HxCDD	95.0				32.0-141	%		
13C-123678-HxCDD	95.0				28.0-130	%		
13C-1234678-HpCDD	90.0				23.0-140	%		
13C-OCDD	83.0				17.0-157	%		
13C-2378-TCDF	84.0				24.0-169	%		
13C-12378-PeCDF	92.0				24.0-185	%		
13C-23478-PeCDF	99.0				21.0-178	%		
13C-123478-HxCDF	113				26.0-152	%		
13C-123678-HxCDF	112				26.0-123	%		
13C-234678-HxCDF	108				29.0-147	%		
13C-123789-HxCDF	99.0				28.0-136	%		
13C-1234678-HpCDF	113				28.0-143	%		
13C-1234789-HpCDF	94.0				26.0-138	%		
37Cl-2378-TCDD	84.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 19:28**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **21.08 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1107**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/10/2011 13:44**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **21.08 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M08-311B**

Client Sample ID: **OU4-SD-M08-311B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958007-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 18:50
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 70

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.166	0.347	pg/g		
1,2,3,7,8-PeCDD	**0.238**		J	0.128	1.74	pg/g	33.79	1.34
1,2,3,4,7,8-HxCDD		0.210	J	0.152	1.74	pg/g	36.32	1.02*
1,2,3,6,7,8-HxCDD		0.777	J	0.166	1.74	pg/g	36.41	1.86*
1,2,3,7,8,9-HxCDD	**0.527**		J	0.166	1.74	pg/g	36.64	1.15
1,2,3,4,6,7,8-HpCDD	**13.6**			0.382	1.74	pg/g	39.57	1.09
OCDD	**109**			0.717	3.47	pg/g	43.60	0.90
2,3,7,8-TCDF	**0.767**			0.332	0.347	pg/g	29.71	0.88
2,3,7,8-TCDF [confirm]	**0.686**			0.402	0.402	pg/g	18.37	0.67
1,2,3,7,8-PeCDF		0.222	J	0.141	1.74	pg/g	32.98	2.33*
2,3,4,7,8-PeCDF	**0.746**		J	0.116	1.74	pg/g	33.59	1.62
1,2,3,4,7,8-HxCDF		0.408	J	0.135	1.74	pg/g	35.62	1.44*
1,2,3,6,7,8-HxCDF		0.352	J	0.138	1.74	pg/g	35.73	1.66*
2,3,4,6,7,8-HxCDF	**0.674**		J	0.144	1.74	pg/g	36.18	1.16
1,2,3,7,8,9-HxCDF	ND		U	0.204	1.74	pg/g		
1,2,3,4,6,7,8-HpCDF	**4.45**			0.153	1.74	pg/g	38.37	1.10
1,2,3,4,7,8,9-HpCDF	**0.256**		J	0.241	1.74	pg/g	40.18	1.02
OCDF	**7.22**			0.413	3.47	pg/g	43.87	0.89
Total TCDD	ND	0.881		0.194	0.347	pg/g		
Total TCDF	**1.80**	3.12		0.332	0.347	pg/g		
Total PeCDD	**1.41**	2.08	J	0.158	1.74	pg/g		
Total PeCDF	**3.84**	4.78		0.141	1.74	pg/g		
Total HxCDD	**4.24**	8.06		0.166	1.74	pg/g		
Total HxCDF	**6.47**	7.43		0.204	1.74	pg/g		
Total HpCDD	**37.5**			0.510	1.74	pg/g		
Total HpCDF	**12.8**			0.277	1.74	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	0.869	0.993	1.12
WHO-2005 TEQ w/EMPC	pg/g	1.05	1.14	1.24

Print Date: 05/11/2011

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Results of **OU4-SD-M08-311B**

Client Sample ID: **OU4-SD-M08-311B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958007-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 18:50
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 70

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	83.0				25.0-164	%		
13C-12378-PeCDD	79.0				25.0-181	%		
13C-123478-HxCDD	92.0				32.0-141	%		
13C-123678-HxCDD	91.0				28.0-130	%		
13C-1234678-HpCDD	92.0				23.0-140	%		
13C-OCDD	78.0				17.0-157	%		
13C-2378-TCDF	87.0				24.0-169	%		
13C-12378-PeCDF	73.0				24.0-185	%		
13C-23478-PeCDF	91.0				21.0-178	%		
13C-123478-HxCDF	104				26.0-152	%		
13C-123678-HxCDF	103				26.0-123	%		
13C-234678-HxCDF	103				29.0-147	%		
13C-123789-HxCDF	94.0				28.0-136	%		
13C-1234678-HpCDF	104				28.0-143	%		
13C-1234789-HpCDF	96.0				26.0-138	%		
37Cl-2378-TCDD	84.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 22:48**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.53 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1107**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/10/2011 15:20**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.53 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M09-111B**

Client Sample ID: **OU4-SD-M09-111B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958012-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 19:10
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 30

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.791	0.813	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.935	4.06	pg/g		
1,2,3,4,7,8-HxCDD	ND		U	1.08	4.06	pg/g		
1,2,3,6,7,8-HxCDD	**3.43**		J	1.16	4.06	pg/g	36.45	1.15
1,2,3,7,8,9-HxCDD	**1.81**		J	1.17	4.06	pg/g	36.69	1.15
1,2,3,4,6,7,8-HpCDD	**62.1**			1.41	4.06	pg/g	39.66	1.08
OCDD	**475**			1.93	8.13	pg/g	43.70	0.89
2,3,7,8-TCDF [confirm]	**2.94**			1.24	1.24	pg/g	17.74	0.79
2,3,7,8-TCDF	**4.55**			1.84	1.84	pg/g	29.74	0.73
1,2,3,7,8-PeCDF		1.85	J	1.38	4.06	pg/g	33.01	1.17*
2,3,4,7,8-PeCDF	**3.22**		J	1.29	4.06	pg/g	33.62	1.48
1,2,3,4,7,8-HxCDF	**2.94**		J	0.681	4.06	pg/g	35.67	1.24
1,2,3,6,7,8-HxCDF	**2.18**		J	0.694	4.06	pg/g	35.78	1.31
2,3,4,6,7,8-HxCDF	**3.16**		J	0.698	4.06	pg/g	36.26	1.23
1,2,3,7,8,9-HxCDF	ND		U	0.914	4.06	pg/g		
1,2,3,4,6,7,8-HpCDF	**20.2**			0.573	4.06	pg/g	38.43	0.97
1,2,3,4,7,8,9-HpCDF	**1.56**		J	0.878	4.06	pg/g	40.28	0.94
OCDF	**34.2**			0.850	8.13	pg/g	43.97	0.86
Total TCDD	**3.70**			0.921	0.921	pg/g		
Total TCDF	**19.6**	26.3		1.84	1.84	pg/g		
Total PeCDD	**8.51**	10.4		1.15	4.06	pg/g		
Total PeCDF	**21.2**	27.0		4.44	4.44	pg/g		
Total HxCDD	**31.4**	33.6		1.17	4.06	pg/g		
Total HxCDF	**28.9**			0.914	4.06	pg/g		
Total HpCDD	**225**			1.89	4.06	pg/g		
Total HpCDF	**59.1**			1.03	4.06	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	3.60	4.59	5.57
WHO-2005 TEQ w/EMPC	pg/g	3.66	4.62	5.58

Print Date: 05/11/2011

N.C. Certification # 481

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Results of **OU4-SD-M09-111B**

Client Sample ID: **OU4-SD-M09-111B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958012-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 19:10
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 30

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	92.0				25.0-164	%		
13C-12378-PeCDD	93.0				25.0-181	%		
13C-123478-HxCDD	98.0				32.0-141	%		
13C-123678-HxCDD	85.0				28.0-130	%		
13C-1234678-HpCDD	101				23.0-140	%		
13C-OCDD	94.0				17.0-157	%		
13C-2378-TCDF	94.0				24.0-169	%		
13C-12378-PeCDF	101				24.0-185	%		
13C-23478-PeCDF	106				21.0-178	%		
13C-123478-HxCDF	107				26.0-152	%		
13C-123678-HxCDF	105				26.0-123	%		
13C-234678-HxCDF	105				29.0-147	%		
13C-123789-HxCDF	101				28.0-136	%		
13C-1234678-HpCDF	113				28.0-143	%		
13C-1234789-HpCDF	109				26.0-138	%		
37Cl-2378-TCDD	95.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **KAS**
Analytical Date/Time: **05/09/2011 20:26**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.71 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1103**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 13:52**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.71 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M09-211B**

Client Sample ID: **OU4-SD-M09-211B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958001-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 10:57
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 27

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD		0.607	J	0.471	0.926	pg/g	30.69	0.38*
1,2,3,7,8-PeCDD		2.93	J	0.355	4.63	pg/g	33.79	2.33*
1,2,3,4,7,8-HxCDD	**4.76**			1.44	4.63	pg/g	36.40	1.37
1,2,3,6,7,8-HxCDD	**9.31**			1.55	4.63	pg/g	36.45	1.33
1,2,3,7,8,9-HxCDD	**5.86**			1.56	4.63	pg/g	36.68	1.12
1,2,3,4,6,7,8-HpCDD	**218**			2.26	4.63	pg/g	39.60	1.05
OCDD	**1720**			3.33	9.26	pg/g	43.63	0.90
2,3,7,8-TCDF	**4.81**			1.08	1.08	pg/g	29.75	0.70
2,3,7,8-TCDF [confirm]	**6.34**			0.555	0.926	pg/g	17.68	0.75
1,2,3,7,8-PeCDF	**3.57**		J	0.478	4.63	pg/g	32.99	1.55
2,3,4,7,8-PeCDF	**7.38**			0.460	4.63	pg/g	33.60	1.60
1,2,3,4,7,8-HxCDF	**7.36**			1.10	4.63	pg/g	35.65	1.35
1,2,3,6,7,8-HxCDF	**6.09**			1.05	4.63	pg/g	35.74	1.20
2,3,4,6,7,8-HxCDF	**8.61**			1.24	4.63	pg/g	36.22	1.21
1,2,3,7,8,9-HxCDF	**2.13**		J	1.16	4.63	pg/g	36.97	1.29
1,2,3,4,6,7,8-HpCDF	**72.9**			0.575	4.63	pg/g	38.39	1.04
1,2,3,4,7,8,9-HpCDF		5.33		0.972	4.63	pg/g	40.24	0.85*
OCDF	**106**			1.10	9.26	pg/g	43.91	0.86
Total TCDD	**14.3**	18.9		0.548	0.926	pg/g		
Total TCDF	**47.7**	57.4		1.08	1.08	pg/g		
Total PeCDD	**27.7**	38.9		0.436	4.63	pg/g		
Total PeCDF	**61.5**	65.7		0.689	4.63	pg/g		
Total HxCDD	**116**	119		1.56	4.63	pg/g		
Total HxCDF	**92.2**	93.8		1.24	4.63	pg/g		
Total HpCDD	**611**			3.03	4.63	pg/g		
Total HpCDF	**199**	204		1.08	4.63	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	10.8	11.2	11.7
WHO-2005 TEQ w/EMPC	pg/g	14.4	14.4	14.4

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Results of **OU4-SD-M09-211B**

Client Sample ID: **OU4-SD-M09-211B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958001-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 10:57
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 27

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	94.0				25.0-164	%		
13C-12378-PeCDD	96.0				25.0-181	%		
13C-123478-HxCDD	103				32.0-141	%		
13C-123678-HxCDD	83.0				28.0-130	%		
13C-1234678-HpCDD	96.0				23.0-140	%		
13C-OCDD	93.0				17.0-157	%		
13C-2378-TCDF	96.0				24.0-169	%		
13C-12378-PeCDF	105				24.0-185	%		
13C-23478-PeCDF	107				21.0-178	%		
13C-123478-HxCDF	103				26.0-152	%		
13C-123678-HxCDF	110				26.0-123	%		
13C-234678-HxCDF	105				29.0-147	%		
13C-123789-HxCDF	105				28.0-136	%		
13C-1234678-HpCDF	111				28.0-143	%		
13C-1234789-HpCDF	98.0				26.0-138	%		
37Cl-2378-TCDD	92.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 17:48**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.3 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1102**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JWP**
Analytical Date/Time: **05/10/2011 14:04**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.3 g**
Prep Extract Vol: **20 uL**

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Results of **OU4-SD-M09-311B**

Client Sample ID: **OU4-SD-M09-311B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958002-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 11:25
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 27

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.679	0.879	pg/g		
1,2,3,7,8-PeCDD	**0.780**		J	0.576	4.39	pg/g	33.80	1.50
1,2,3,4,7,8-HxCDD	**1.22**		J	0.906	4.39	pg/g	36.34	1.31
1,2,3,6,7,8-HxCDD	**3.87**		J	0.954	4.39	pg/g	36.43	1.33
1,2,3,7,8,9-HxCDD		2.40	J	0.972	4.39	pg/g	36.65	1.45*
1,2,3,4,6,7,8-HpCDD	**67.4**			1.51	4.39	pg/g	39.60	1.05
OCDD	**511**			1.84	8.79	pg/g	43.61	0.90
2,3,7,8-TCDF	**3.41**			1.36	1.36	pg/g	29.75	0.80
2,3,7,8-TCDF [confirm]	**2.80**			0.522	0.879	pg/g	17.68	0.83
1,2,3,7,8-PeCDF	ND		U	2.43	4.39	pg/g		
2,3,4,7,8-PeCDF	**3.57**		J	2.14	4.39	pg/g	33.60	1.50
1,2,3,4,7,8-HxCDF		3.14	J	0.412	4.39	pg/g	35.65	1.58*
1,2,3,6,7,8-HxCDF	**2.38**		J	0.383	4.39	pg/g	35.74	1.07
2,3,4,6,7,8-HxCDF	**3.48**		J	0.427	4.39	pg/g	36.21	1.22
1,2,3,7,8,9-HxCDF	**1.02**		J	0.601	4.39	pg/g	36.96	1.35
1,2,3,4,6,7,8-HpCDF	**22.4**			0.517	4.39	pg/g	38.40	0.98
1,2,3,4,7,8,9-HpCDF	**1.32**		J	0.840	4.39	pg/g	40.25	0.93
OCDF	**32.4**			0.742	8.79	pg/g	43.91	0.93
Total TCDD	**4.42**	5.83		0.791	0.879	pg/g		
Total TCDF	**21.5**	33.0		1.36	1.36	pg/g		
Total PeCDD	**6.09**	14.3	Q	0.709	4.39	pg/g		
Total PeCDF	**26.6**	26.6	Q	2.43	4.39	pg/g		
Total HxCDD	**39.0**	42.2		0.972	4.39	pg/g		
Total HxCDF	**32.9**	36.4		0.601	4.39	pg/g		
Total HpCDD	**197**			2.02	4.39	pg/g		
Total HpCDF	**62.5**			0.944	4.39	pg/g		

World Health Organization Summary

	Units	ND=0	ND=½	ND=DL
WHO-2005 TEQ	pg/g	4.40	4.85	5.29
WHO-2005 TEQ w/EMPC	pg/g	4.95	5.33	5.71

Print Date: 05/11/2011

N.C. Certification # 481

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Results of **OU4-SD-M09-311B**

Client Sample ID: **OU4-SD-M09-311B**
Client Project ID: **PNS CTO WE29 OU4**
Lab Sample ID: 31100958002-A
Lab Project ID: 31100958

Collection Date: 04/19/2011 11:25
Received Date: 04/26/2011 11:55
Matrix: Soil-Solid as dry weight
Solids (%): 27

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
Labeled Standards								
13C-2378-TCDD	77.0				25.0-164	%		
13C-12378-PeCDD	84.0				25.0-181	%		
13C-123478-HxCDD	92.0				32.0-141	%		
13C-123678-HxCDD	83.0				28.0-130	%		
13C-1234678-HpCDD	87.0				23.0-140	%		
13C-OCDD	74.0				17.0-157	%		
13C-2378-TCDF	80.0				24.0-169	%		
13C-12378-PeCDF	85.0		Q		24.0-185	%		
13C-23478-PeCDF	94.0				21.0-178	%		
13C-123478-HxCDF	99.0				26.0-152	%		
13C-123678-HxCDF	100				26.0-123	%		
13C-234678-HxCDF	100				29.0-147	%		
13C-123789-HxCDF	89.0				28.0-136	%		
13C-1234678-HpCDF	104				28.0-143	%		
13C-1234789-HpCDF	89.0				26.0-138	%		
37Cl-2378-TCDD	77.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 18:38**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.94 g**
Prep Extract Vol: **20 uL**

Analytical Batch: **HRD1102**
Analytical Method: **EPA 1613B**
Instrument: **HRMS3**
Analyst: **JWP**
Analytical Date/Time: **05/10/2011 14:35**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **20.94 g**
Prep Extract Vol: **20 uL**

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APPENDIX C

REGIONAL WORKSHEETS

EPA-NE
Data Validation Worksheet Cover Page - Page 1

Site Name Portsmouth
Reference No. _____

REGION I ORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name Katahdin
Case/Project No. CTO WE29 Pg 20/25
SDG No. WE29-1
No. of Samples/Matrix _____

SOW/Method No. _____
Sampling Date(s) _____
Shipping Date(s) _____
Date Rec'd by lab _____

Traffic Report Sample Nos. _____

Trip Blank No. _____
Equipment Blank No. _____
Bottle Blank No. _____
Field Duplicate Nos. _____

PES Nos. _____

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision _____ was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPjP or amendment to QAPjP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc. that received partial Tier III validation _____

The data were evaluated based upon the following parameters:

- Overall Evaluation of Data
- Data Completeness (CSF Audit - Tier I)
- Preservation & Technical Holding Times
- GC/MS & GC/ECD Instrument Performance Check
- Initial & Continuing Calibrations
- Blanks
- Surrogate Compounds
- Internal Standards
- Matrix Spike/Matrix Spike Duplicate
- Field Duplicates
- Sensitivity Check
- PE Samples/Accuracy Check
- Target Compound Identification
- Compound Quantitation and Reported Quantitation Limits
- TICs
- Semivolatile and Pesticide/PCB Cleanup
- System Performance

Region I Definitions and Qualifiers:

A - Acceptable Data
J - Numerical value associated with compound is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Compound not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
TB, BB, EB - Compound detected in aqueous trip blank, aqueous bottle blank, or aqueous equipment blank associated with soil/sediment samples.

Validator's Name J Kaliyat Company Name T.Tech Phone Number _____

Date Validation Started _____ Date Validation Completed _____

EPA-NE
Data Validation Worksheet Cover Page - Page 2

Check if all criteria are met and no hard copy worksheet provided. Indicate NA if worksheet is not applicable to analytical method. Note: there is no standard worksheet for System Performance, however, the validator must document all system performance issues in the Data Validation Memorandum.

VOA/SV worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	See DV Report
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	
VOA/SV-II	GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)	
VOA/SV-III	INITIAL CALIBRATION	
VOA/SV-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
VOA-VI	VOA SURROGATE SPIKE RECOVERIES	
SV-VI	SV SURROGATE SPIKE RECOVERIES	
VOA/SV-VII	INTERNAL STANDARD PERFORMANCE	
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	
VOA/SV-Pest/PCB-XII	TARGET COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
VOA/SV-XIV	TENTATIVELY IDENTIFIED COMPOUNDS	
VOA/SV-XV	SEMIVOLATILE CLEANUP	
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	

Pest/PCB worksheets:

VOA/SV-Pest/PCB	COMPLETE SDG FILE (CSF) AUDIT	
VOA/SV-Pest/PCB-I	PRESERVATION AND HOLDING TIMES	
Pest/PCB-IIA	GC/ECD INSTRUMENT PERFORMANCE CHECK-RESOLUTION	
Pest/PCB-IIB	GC/ECD INSTRUMENT PERFORMANCE CHECK-RETENTION TIMES	
Pest/PCB-IIC	GC/ECD INSTRUMENT PERFORMANCE CHECK-ACCURACY CHECK OF INITIAL CALIBRATION	
Pest/PCB-IID	GC/ECD INSTRUMENT PERFORMANCE CHECK-PESTICIDE DEGRADATION	
Pest/PCB-III	INITIAL CALIBRATION	
Pest/PCB-IV	CONTINUING CALIBRATION	
VOA/SV-Pest/PCB-V-A	BLANK ANALYSIS	
VOA/SV-Pest/PCB-V-B	BLANK ANALYSIS	
Pest/PCB-VI	SURROGATE COMPOUNDS: SPIKE RECOVERIES AND RETENTION TIME SHIFT	
Pest/PCB-VII	PESTICIDE CLEANUP	
VOA/SV-Pest/PCB-VIII	MATRIX SPIKE/MATRIX SPIKE DUPLICATE	
VOA/SV-Pest/PCB-IX	FIELD DUPLICATE PRECISION	
VOA/SV-Pest/PCB-X	SENSITIVITY CHECK	
VOA/SV-Pest/PCB-XI	ACCURACY CHECK	
Pest/PCB-XII	COMPOUND IDENTIFICATION	
VOA/SV-Pest/PCB-XIII	SAMPLE QUANTITATION	
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	

I certify that all criteria were met for the worksheets checked above.

Signature: [signature] Name: J Kaliyak

Date: 6/28/11

The data validator generates a Data Validation Report, applicable to Data Validation Tiers II and III, that consists of the following components in the order specified below: (Refer to Section 11 for a description of each of the Data Validation Report components).

1. Organic Regional Data Assessment/Inorganic Regional Data Assessment (ORDA/IRDA) Form
2. Data Validation Memorandum
   a. Narrative
   b. Table I-Qualifier Recommendation Summary Table
   c. Table II-Overall Evaluation of Data
   d. Table III-Tentatively Identified Compounds
   e. Data Summary Tables
3. Standard Data Validation Worksheets
   a. Manual
   b. Automated Data Review Reports (i.e., CADRE)
4. Support Documentation
   a. Copy of non-CLP analytical method, e.g., DAS methods, modified EPA methods
   b. Copies of PES Score Reports/Vendor PES QC Acceptance Limits
   c. Copies of Telephone Logs/Communication Forms for:
      - RSCC communications
      - Requests for laboratory data resubmissions/clarifications
      - Communications with samplers resolving sampling problems
      - Communications with TPO/Lead Chemist to report contractually-deficient data for rejection/reduced payment
      - Communications with EPA Site Manager concerning possible data rejection
      - EPA Site Manager authorization for alternate DV tier
   d. Copies of data supporting recommendations for reduced payment resulting from CSF Audit and/or PE sample result evaluation
   e. Original data to support recommendations for data rejection/non-payment identified from Tier II or Tier III data validation
   f. Copies of field sampling notes and/or field report supplied by field sampler
   g. Copies of EPA-approved amendments to QAPjP and/or SAP describing modified criteria to be used for validating site data
5. CSF Completeness Evidence Audit
6. DQO Summary Form

The data validator is responsible for implementing all corrective actions required by the contractor Lead Chemist in response to EPA-NE data validation oversight findings.

EPA-NE - Data Validation Worksheet
Overall Evaluation of Data - Data Validation Memorandum - Table II

See DV Report

VOLATILE ORGANICS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		
		N/A			

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

Validator: _____ Date: 6/28/11

EPA-NE - Data Validation Worksheet
Overall Evaluation of Data - Data Validation Memorandum - Table II

See DV Report

SEMIVOLATILE ORGANICS					
DQO (list all DQOs)	Sampling and/or Analytical Method Appropriate Yes or No	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

Validator: _____ Date: 6/28/11

COMPLETE SDG FILE (CSF) AUDIT

Organic Fractions: _____

Missing Information	Date Lab Contacted	Date Received
See DV Report		

Validator: _____ Date: 6/28/11

Sampler:_____ Company:_____ Contacted: Yes No Date:_____

I. PRESERVATION AND HOLDING TIMES - Circle sample numbers with exceeded technical holding times or omitted preservation.
List all required preservation codes and circle omitted preservation codes.
Circle all exceeded technical holding times.
Identify extraction technique after "# of Days"/(*Extraction Code).

See DV Report

Sample No. (TR No.)	Matrix	Pres. Code	Date Sampled	VOA			BNA					PEST/PCB				
				Date Analyzed	# of Days from Samp. to Anal.	Action	Date Extracted	# of Days from Samp. to Extr./(*)	Date Analyzed	# of Days from Extr. to Anal.	Action	Date Extracted	# of Days from Samp. to Extr./(*)	Date Analyzed	# of Days from Extr. to Anal.	Action

Preservation Code:
1. Cool @ 4°C (± 2°)
2. Preserve with HCl to at least pH 2
3. Protect from light
4. Freeze
5. Room Temperature (Avoid excessive heat)

(*Extraction Code:)
L/L - Liquid/Liquid
SON - Sonication
SEP - Separatory Funnel
SOX - Soxhlet
SPE - Solid Phase Extraction

Action Code:
J - Estimate (J) Detected Values
UJ - Estimate (UJ) Non-Detected Values
R - Reject (R) Non-Detected Values

Validator: _____

Date: 6/28/11

II. GC/MS INSTRUMENT PERFORMANCE CHECK (TUNING)

See DV Report

List all Instrument Performance Checks that are outside method QC tuning acceptance criteria.

Volatile Instrument Performance Check (Compound Name)	Analysis Date and Time	Instrument	Ion(s) Affected	Percent Relative Abundance	QC Limits	Samples Affected	Action
Comments:							

Semivolatile Instrument Performance Check (Compound Name)	Analysis Date and Time	Instrument	Ion(s) Affected	Percent Relative Abundance	QC Limits	Samples Affected	Action
Comments:							

If tuning compounds and criteria are different from those specified in CLP SOW OLM03.1, then the validator should include a copy of the method-specific tuning criteria with this worksheet.

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV-III

III. INITIAL CALIBRATION - List all analytes that are outside calibration criteria.

See DV Report

Date of ICAL	Instrument	Parameter	Matrix	Compound	% RSD	$\overline{RRF}$	Samples Affected	Action

Comments:

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet

VOA/SV-IV

See DV Report

IV. CONTINUING CALIBRATION - List all analytes that are outside calibration criteria.

Date of ICAL	Date of CCAL	Instrument	Parameter	Matrix	Compound	%D	RRF	Samples Affected	Action

Comments:

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet

VOA/SV - Pest/PCB-V-A

See DV Report

V. BLANK ANALYSIS

List the blank contamination below.

Concentration Level:_____

Sampler: _____ Company: _____

Contacted: Yes No Date:_____

1. Laboratory: Method, Storage and Instrument Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)

2. Field: Equipment (Rinsate), Trip and Bottle Blanks

Date Extracted	Date Analyzed	Parameter/ Matrix	Sample No. (Blank Type)	Instrument/ Column	Compound	Conc. (units)

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-V-B

See DV Report

3. **Blank Actions** - List the maximum concentrations of blank compounds.

Compound	Type of Blank	Date Blank Sampled/Originated	Max. Conc. (units)	Action Level (units)	Sample QL	Samples Affected	Action

Comments: _____

Validator: _____

Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA-VI

See DV Report

VI. VOA SURROGATE SPIKE RECOVERIES - List all surrogate compound recoveries that are outside method QC acceptance criteria.

Method	Volatile Method QC Acceptance Criteria				
	Toluene-d_8	BFB	DCE-d_4	Other:	
OLM03.2	Water 88-110 Soil 84-138	Water 86-115 Soil 59-113	Water 76-114 Soil 70-121		
OLC02.1	NA	80-120	NA		
Other:					
Sample Number/Matrix	**% Recovery**	**% Recovery**	**% Recovery**	**% Recovery**	**Action**

Validator: _____

Date: 6/28/11

See DV Report

VI. SV SURROGATE SPIKE RECOVERIES - List all surrogate compound recoveries that are outside method QC acceptance criteria.

Method	Base/Neutral Method QC Acceptance Criteria					
	NBZ-d_5	2-FBP	TPH-d_{14}	1,2-DCB-d_4*	Other:	
OLM03.2	Water Soil 35-114 23-120	Water Soil 43-116 30-115	Water Soil 33-141 18-137	Water Soil 16-110 20-130		
OLC02.1	40-110	30-110	20-140	NA		
Other:						
Sample Number/Matrix	**% Recovery**	**% Recovery**	**% Recovery**	**% Recovery**	**% Recovery**	**Action**

Method	Acid Method QC Acceptance Criteria					
	Phenol-d_5	2-FP	2,4,6-TBP	2-CP-d_4*	Other:	
OLM03.2	Water Soil 10-110 24-113	Water Soil 21-110 25-121	Water Soil 10-123 19-122	Water Soil 33-110 20-130		
OLC02.1	15-115	15-110	15-130	NA		
Other:						
Sample Number/Matrix	**% Recovery**	**% Recovery**	**% Recovery**	**% Recovery**	**% Recovery**	**Action**

* Advisory Surrogates - OLM03.2

Validator: _____ Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV-VII

See DV Report

VII. INTERNAL STANDARD PERFORMANCE

List the internal standards that are outside the area count and retention time method QC acceptance criteria.
IS Area Count method QC acceptance criteria:_____
IS Retention Time method QC acceptance criteria:_____

Sample Number (TR#)	Date and Time Analyzed	Instrument	Parameter	IS Outside Area Count and/or RT Criteria	__IS Area	RT Shift	Acceptable Range (IS area or RT shift)	Action

Validator: [signature]

Date: 6/28/11

See DV Report

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-VIII

VIII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE - List all MS/MSD analytes that are outside method QC acceptance criteria. Use a separate worksheet for each MS/MSD pair.

Sample # _____ Matrix _____ Concentration Level _____

Parameter	Compound	MS %Rec	MSD %Rec	RPD	Method QC Limits		Concentration			% RSD	Action
					% Rec	RPD	Unspiked Sample	MS	MSD		

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-IX

See DV Report

IX. FIELD DUPLICATE PRECISION - List all field duplicate analytes that are outside criteria.

Use a separate worksheet for each field duplicate pair.

Sample Number _____ Duplicate Sample Number _____ Matrix _____

Parameter	Compound	Sample Conc.	Sample QL		Duplicate Conc.	Duplicate QL		RPD	QC Acceptance Criteria RPD or NA*	Action
			SQL	2xSQL		SQL	2xSQL			

* For instances where one duplicate result is ND (or reported less than the sample QL).

Does the MS/MSD data indicate acceptable laboratory precision? Y N

Comments: _____

Sampler Name: _____ Contractor Name: _____ Date Contacted: _____

Reason for Contact and resolution obtained: _____

Validator: _____ Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-X

X. SENSITIVITY CHECK (Method Detection Limit Study)

See DV Report

List all compounds, surrogates, and internal standards that are outside the MDL criteria.

- Has an appropriate MDL study been submitted with seven replicates for each compound and matrix of interest? Y N
- Date of Preparation/Analysis: _____ Within 1 year? Y N
- Instrument I.D.: _____ Same as samples? Y N
- Column I.D.: _____ Same as samples? Y N

Matrix	Compound	MDL > QL	Method QC Limits < 80% or > 120%	IS Outside Area Count and/or RT Criteria	RSD > 20%	Samples Affected	Action

If an MDL study has not been submitted, use only the LFB results to evaluate data.

(Laboratory Fortified Blank) - List all LFB compounds, surrogates and internal standards that are outside criteria.

- Has an appropriate and complete LFB been submitted at the proper frequency? Y N
- Does it contain all target compounds at the method-required QLs? Y N
- Was the LFB spiked with a standard from a source (vendor) independent of the calibration standard? Y N

Matrix	Compound	Method QC Limits < 60% or > 140% Other:	IS Outside Area Count and/or RT Criteria	Samples Affected	Action

Validator: _____ Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-XI

See DV Report

XI. ACCURACY CHECK (Performance Evaluation Results) - List all analytes that are outside criteria.

SDG No: _____ CASE: _____

Are more than one-half of the PES analytes within criteria for each parameter. **Y N**

PE Sample Number	Ampule Number	Parameter	Type of PES	Matrix	Analyte	Conc.	Region I EPA PES Scores*	Non-EPA PES Scores**	Samples Affected	Action

* For Region I PESs indicate the Region I PES Score Report Result: Action High; Action Low; TCL MISS; TCL CONTAMINANT; TIC HIT; TIC MISS; TIC CONTAMINANT

** For Non-EPA PESs indicate the Non-EPA PES Score: PES COMPOUND MISS; PES COMPOUND CONTAMINANT; PES COMPOUND HIT (% Recovery Limits)

Validator: _____ Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-XII

See DV Report

XII. TARGET COMPOUND IDENTIFICATION - List the analytes that are outside the acceptance criteria.

Sample Number	Compound	___MS Ions	____RRT	Action

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV - Pest/PCB-XIII

See DV Report

XIII. SAMPLE QUANTITATION

Recalculate, from the raw data, the concentrations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per fraction. (Note: Although Section XIII, C.1.a, requires that one calculation for each fraction in each sample be performed, the validator is only required to reproduce an example, for each fraction, of one positive detect and one sample quantitation limit calculation on this worksheet.)

Do all soil/sediment samples have % solids greater than 30%? **Y N**
If no, list sample numbers_____

Fraction		Calculation
VOA		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		
BNA		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		
Pesticide/PCB		
Sample No.:		
Reported Compound:		
Reported Value:		
Not Detected Compound:		
Reported Quantitation Limit:		

Validator: JK

Date: 6/28/11

See DV Report

XIV. TENTATIVELY IDENTIFIED COMPOUNDS (TICs)

List the 5 TICs having the highest concentration for each sample parameter.

Sample Number	Parameter	Compound	RRT	Est. Conc.	Action

Validator: JK

Date: 6/28/11

EPA-NE - Data Validation Worksheet
VOA/SV-XV

See DV Report

XV. SEMIVOLATILE CLEANUP - List all analytes that are outside method cleanup QC criteria.

Cleanup Procedure	Instrument # or Lot #	Date/Time GPC Calibrated or Check Solution Analyzed	Compound	% Rec	QC Limits	Samples Affected	Action

Did the GPC column meet; resolution requirements? Y or N
peak shape requirements? Y or N
retention time shift requirements? Y or N

Was the GPC calibration, Silica Gel cleanup checked at the method required frequency with correct compounds and concentrations? Y or N

Were all compounds less than QL for the GPC/Silica Gel/Acid-Partition blank? Y or N

Did the blank surrogate recoveries and IS area counts and RTs (if added) meet method QC acceptance criteria? Y or N

Comments:

Validator: JK

Date: 6/28/11

APPENDIX D

SUPPORT DOCUMENTATION

HOLDTIM

SDG WE29-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
DIOX	NG/KG	OU4-SD-M08-211B	31100958003	NM	04/19/2011	04/28/2011	05/10/2011	9	12	21
DIOX	NG/KG	OU4-SD-M08-311B	31100958007	NM	04/19/2011	04/28/2011	05/10/2011	9	12	21
DIOX	NG/KG	OU4-SD-M07-211B	31100958004	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
DIOX	NG/KG	OU4-SD-M07-211B	31100958004	NM	04/19/2011	04/28/2011	05/10/2011	9	12	21
DIOX	NG/KG	OU4-SD-M07-311B	31100958005	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
DIOX	NG/KG	OU4-SD-M07-311B	31100958005	NM	04/19/2011	04/28/2011	05/10/2011	9	12	21
DIOX	NG/KG	OU4-SD-FD-041911-03	31100958008	NM	04/19/2011	04/28/2011	05/09/2011	9	11	20
DIOX	NG/KG	OU4-SD-M07-111B	31100958006	NM	04/19/2011	04/28/2011	05/09/2011	9	11	20
DIOX	NG/KG	OU4-SD-M08-211B	31100958003	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
DIOX	NG/KG	OU4-SD-M07-111B	31100958006	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
DIOX	NG/KG	OU4-SD-M08-311B	31100958007	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
DIOX	NG/KG	OU4-SD-M09-311B	31100958002	NM	04/19/2011	04/28/2011	05/10/2011	9	12	21
DIOX	NG/KG	OU4-SD-M09-311B	31100958002	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
DIOX	NG/KG	OU4-SD-M09-211B	31100958001	NM	04/19/2011	04/28/2011	05/10/2011	9	12	21
DIOX	NG/KG	OU4-SD-M09-211B	31100958001	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
DIOX	NG/KG	OU4-SD-M09-111B	31100958012	NM	04/19/2011	04/28/2011	05/09/2011	9	11	20
DIOX	NG/KG	OU4-SD-M08-111B	31100958009	NM	04/19/2011	04/28/2011	05/09/2011	9	11	20
DIOX	NG/L	OU4-RB-042011-01	31100958013	NM	04/20/2011	04/28/2011	05/09/2011	8	11	19
DIOX	NG/L	OU4-SB-042011-01	31100958014	NM	04/20/2011	04/28/2011	05/09/2011	8	11	19
HG	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M08-311B	SE2074-027	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M08-111B	SE2074-029	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M07-311B	SE2074-015	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M07-211B	SE2074-014	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M07-111B	SE2074-026	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M05-411B	SE2074-023	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M05-311B	SE2074-024	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-FD-041911-03	SE2074-028	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HG	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	UG/L	OU4-SB-042011-01	SE2074-033	NM	04/20/2011	04/25/2011	04/28/2011	5	3	8
HG	UG/L	OU4-RB-042011-01	SE2074-032	NM	04/20/2011	04/25/2011	04/28/2011	5	3	8
M	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M08-311B	SE2074-027	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M11-311B	SE2079-001	NM	04/21/2011	04/25/2011	04/26/2011	4	1	5
M	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M08-111B	SE2074-029	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M07-311B	SE2074-015	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	OU4-SD-M12-111B	SE2074-031	NM	04/20/2011	04/25/2011	04/27/2011	5	2	7
M	MG/KG	OU4-SD-M07-211B	SE2074-014	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M12-611B	SE2074-018	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M12-511B	SE2074-016	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M12-411B	SE2074-017	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M12-311B	SE2074-019	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M12-211B	SE2074-020	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M05-311B	SE2074-024	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M07-111B	SE2074-026	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-FD-041911-03	SE2074-028	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M03-111B	SE2074-004	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	MG/KG	OU4-SD-M03-211B	SE2074-003	NM	04/18/2011	04/25/2011	04/27/2011	7	2	9
M	MG/KG	OU4-SD-M03-311B	SE2074-001	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	OU4-SD-M04-111B	SE2074-005	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	MG/KG	OU4-SD-M05-411B	SE2074-023	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M04-311B	SE2074-006	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M04-211B	SE2074-002	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	UG/L	OU4-RB-042011-01	SE2074-032	NM	04/20/2011	04/22/2011	04/26/2011	2	4	6
M	UG/L	OU4-SB-042011-01	SE2074-033	NM	04/20/2011	04/22/2011	04/26/2011	2	4	6
TS	%	OU4-SD-M09-211B	31100958001	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-611B	SE2074-18	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M09-111B	31100958012	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M08-311B	31100958007	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M09-311B	31100958002	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M11-311B	SE2079-1	NM	04/21/2011	04/23/2011	04/25/2011	2	2	4
TS	%	OU4-SD-M12-111B	SE2074-31	NM	04/20/2011	04/23/2011	04/25/2011	3	2	5
TS	%	OU4-SD-M12-411B	SE2074-17	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-311B	SE2074-19	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-211B	SE2074-20	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M08-211B	31100958003	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-511B	SE2074-16	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M03-211B	SE2074-3	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M07-311B	31100958005	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M07-211B	31100958004	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M07-111B	31100958006	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M05-411B	SE2074-23	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M05-311B	SE2074-24	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	OU4-SD-M05-211B	SE2074-21	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M04-311B	SE2074-6	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M03-311B	SE2074-1	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M05-111B	SE2074-22	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M03-111B	SE2074-4	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M01-311B	SE2074-9	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M01-211B	SE2074-8	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M01-111B	SE2074-7	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-FD-041911-03	31100958008	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-FD-041911-02	SE2074-25	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-FD-041911-01	SE2074-10	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M04-111B	SE2074-5	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M04-211B	SE2074-2	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M08-111B	31100958009	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
SIM	%	OU4-SD-M05-111B	SE2074-22	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	%	OU4-SD-M01-311B	SE2074-9	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M03-111B	SE2074-4	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	%	OU4-SD-M03-211B	SE2074-3	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	%	OU4-SD-M03-311B	SE2074-1	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	%	OU4-SD-M04-111B	SE2074-5	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	%	OU4-SD-M01-211B	SE2074-8	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M04-311B	SE2074-6	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	%	OU4-SD-M05-311B	SE2074-24	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M05-211B	SE2074-21	NM	04/19/2011	04/26/2011	05/03/2011	7	7	14
SIM	%	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	%	OU4-SD-M05-411B	SE2074-23	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	%	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	%	OU4-SD-M04-211B	SE2074-2	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	%	OU4-SD-M12-111B	SE2074-31	NM	04/20/2011	04/26/2011	05/05/2011	6	9	15
SIM	%	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	%	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	%	OU4-SD-M12-211B	SE2074-20	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M12-311B	SE2074-19	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	%	OU4-FD-041911-01	SE2074-10	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-FD-041911-02	SE2074-25	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	%	OU4-RB-042011-01	SE2074-32	NM	04/20/2011	04/22/2011	05/04/2011	2	12	14
SIM	%	OU4-SB-042011-01	SE2074-33	NM	04/20/2011	04/22/2011	05/04/2011	2	12	14
SIM	%	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	%	OU4-SD-M01-111B	SE2074-7	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	%	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/26/2011	05/03/2011	7	7	14
SIM	UG/KG	OU4-SD-M05-111B	SE2074-22DL	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/26/2011	05/03/2011	7	7	14
SIM	UG/KG	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M05-411B	SE2074-23DL	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M05-411B	SE2074-23	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/KG	OU4-SD-M04-311B	SE2074-6	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	UG/KG	OU4-SD-M05-211B	SE2074-21	NM	04/19/2011	04/26/2011	05/03/2011	7	7	14
SIM	UG/KG	OU4-SD-M05-111B	SE2074-22	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M04-211B	SE2074-2	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	UG/KG	OU4-SD-M09-311B	SE2074-12DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M05-311B	SE2074-24	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M08-211B	SE2074-13DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M12-311B	SE2074-19DL	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-FD-041911-01	SE2074-10DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M12-111B	SE2074-31	NM	04/20/2011	04/26/2011	05/05/2011	6	9	15
SIM	UG/KG	OU4-SD-M12-111B	SE2074-31DL	NM	04/20/2011	04/26/2011	05/06/2011	6	10	16
SIM	UG/KG	OU4-SD-M12-211B	SE2074-20	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M12-211B	SE2074-20DL	NM	04/19/2011	04/26/2011	05/09/2011	7	13	20

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/KG	OU4-SD-M12-311B	SE2074-19	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M04-111B	SE2074-5DL	NM	04/18/2011	04/26/2011	05/05/2011	8	9	17
SIM	UG/KG	OU4-SD-M09-211B	SE2074-11DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M01-211B	SE2074-8DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-FD-041911-01	SE2074-10	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M04-111B	SE2074-5	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	UG/KG	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M01-111B	SE2074-7	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M01-211B	SE2074-8	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-FD-041911-02	SE2074-25	NM	04/19/2011	04/26/2011	05/05/2011	7	9	16
SIM	UG/KG	OU4-SD-M01-311B	SE2074-9	NM	04/19/2011	04/26/2011	05/04/2011	7	8	15
SIM	UG/KG	OU4-SD-M01-311B	SE2074-9DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17
SIM	UG/KG	OU4-SD-M03-111B	SE2074-4	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	UG/KG	OU4-SD-M03-111B	SE2074-4DL	NM	04/18/2011	04/26/2011	05/05/2011	8	9	17
SIM	UG/KG	OU4-SD-M03-211B	SE2074-3	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	UG/KG	OU4-SD-M03-211B	SE2074-3DL	NM	04/18/2011	04/26/2011	05/05/2011	8	9	17
SIM	UG/KG	OU4-SD-M03-311B	SE2074-1	NM	04/18/2011	04/26/2011	05/03/2011	8	7	15
SIM	UG/KG	OU4-SD-M01-111B	SE2074-7DL	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
SIM	UG/L	OU4-RB-042011-01	SE2074-32	NM	04/20/2011	04/22/2011	05/04/2011	2	12	14
SIM	UG/L	OU4-SB-042011-01	SE2074-33	NM	04/20/2011	04/22/2011	05/04/2011	2	12	14
PCB	%	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	%	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	%	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	%	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	%	OU4-RB-042011-01	SE2074-32	NM	04/20/2011	04/25/2011	05/05/2011	5	10	15
PCB	%	OU4-SB-042011-01	SE2074-33	NM	04/20/2011	04/25/2011	05/05/2011	5	10	15
PCB	%	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	UG/KG	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	UG/KG	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	UG/KG	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	UG/KG	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	UG/KG	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCB	UG/L	OU4-SB-042011-01	SE2074-33	NM	04/20/2011	04/25/2011	05/05/2011	5	10	15
PCB	UG/L	OU4-RB-042011-01	SE2074-32	NM	04/20/2011	04/25/2011	05/05/2011	5	10	15
PCBH	%	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	%	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCBH	%	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	%	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	%	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	UG/KG	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	UG/KG	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	UG/KG	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	UG/KG	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBH	UG/KG	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PCBHH	UG/KG	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/28/2011	05/11/2011	9	13	22
PEST	%	OU4-SB-042011-01	SE2074-33	NM	04/20/2011	04/25/2011	05/04/2011	5	9	14
PEST	%	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	%	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	%	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	%	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/28/2011	05/05/2011	9	7	16
PEST	%	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	%	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/28/2011	05/05/2011	9	7	16
PEST	%	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	%	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	%	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/28/2011	05/05/2011	9	7	16
PEST	%	OU4-RB-042011-01	SE2074-32	NM	04/20/2011	04/25/2011	05/04/2011	5	9	14
PEST	%	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/28/2011	05/05/2011	9	7	16
PEST	UG/KG	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/28/2011	05/05/2011	9	7	16
PEST	UG/KG	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/28/2011	05/04/2011	9	6	15
PEST	UG/KG	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/28/2011	05/05/2011	9	7	16
PEST	UG/L	OU4-RB-042011-01	SE2074-32	NM	04/20/2011	04/25/2011	05/04/2011	5	9	14
PEST	UG/L	OU4-SB-042011-01	SE2074-33	NM	04/20/2011	04/25/2011	05/04/2011	5	9	14

SED011

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 1 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins / Katadem
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	Copper	TAL metals	4,4'-DDT	PCB Congeners	Dioxin/Furans				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	G					
PRESERVATIVE USED						4°C	4°C	4°C	4°C	4°C					
4/18	1315	OU4-SD-M03-311B	Sed	C	2	1	1	—	—	—					
	1335	OU4-SD-M04-211B			2	1	1	—	—	—					
	1604	OU4-SD-M03-211B			2	1	1	—	—	—					
	1815	OU4-SD-M03-111B			2	1	1	—	—	—					
	1830	OU4-SD-M04-111B			2	1	1	—	—	—					
	1835	OU4-SD-M04-311B			2	1	1	—	—	—					
4/19	0720	OU4-SD-M01-111B			1	1	—	—	—	—					
	0740	OU4-SD-M01-211B			1	1	—	—	—	—					
	0755	OU4-SD-M01-311B			1	1	—	—	—	—					
	0000	OU4-FD-041911-01			1	1	—	—	—	—					
	1057	OU4-SD-M09-211B			4	1	—	1	1	1					
	1125	OU4-SD-M09-311B			4	1	—	1	1	1					
	1142	OU4-SD-M08-211B			4	1	—	1	1	1					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/20/11	1607	1. RECEIVED BY	4/20/11	1607
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 2 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins / Katadin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	TAL Metals	4,4'-DDT/PCB congeners	Dioxin/Furans	Lead				COMMENTS
					CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G	G				
					PRESERVATIVE USED	4°C	4°C	4°C	4°C	4°C				
4/19	1210	OU4-SD-M07-211B	Sed	C	4 (5)	1	1	1	1	—				*
	1225	OU4-SD-M07-311B			4 (5)	1	1	1	1	—				*
	~~1340~~	~~OU4-SD-M12-511B~~			~~4~~	~~1~~	~~1~~	~~1~~	~~1~~					~~*~~ SEH
	1340	OU4-SD-M12-511B			1	1 SEH	—	—	—	1				
	1350	OU4-SD-M12-411B			1	—	—	—	—	1				
	1405	OU4-SD-M12-611B			1	—	—	—	—	1				
	1412	OU4-SD-M12-311B			2	1	—	—	—	1				
	1425	OU4-SD-M12-211B			2	1	—	—	—	1				
	1740	OU4-SD-M05-211B		(6)	~~2~~ SEH 4	2	2	—	—	—				Run MS/MSD
	1750	OU4-SD-M05-111B			2	1	1	—	—	—				
	1800	OU4-SD-M05-411B			2	1	1	—	—	—				
	1810	OU4-SD-M05-311B			2	1	1	—	—	—				
↓	0000	OU4-FD-041911-02			2	1	1	—	—	—				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/20/11	1600	1. RECEIVED BY	4/20/11	16:07
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS * Bottles have an extra 4 oz or 1 8oz. use extra volume as necessary

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 3 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins/Katadin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAHs	metals	4,4'DDT/PCB	Dioxin/furans	Lead				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	G				
PRESERVATIVE USED						4°C	4°C	4°C	4°C	4°C				
4/19	1820	OU4-SD-M07-111B	Sed	C	(5) 4	1	1	1	1	—				*
	1850	OU4-SD-M08-311B			(5) 4	1	1	1	1	—				*
	0000	OU4-FD-041911-03			(5) 4	1	1	1	1	—				*
	1900	OU4-SD-M03-111B			(15) 12	3	3	3	3	—				*
	1910	OU4-SD-M09-111B			4	1	1	1	1	—				*
4/20	0830	OU4-SD-M12-111B			2	1	—	—	—	1				

1. RELINQUISHED BY	DATE 4/20/11	TIME 1608	1. RECEIVED BY	DATE 4/20/11	TIME 16:07
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * Bottles have an extra 4oz. Use extra volume as necessary

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

L000000

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 4 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Hitt 412-921-7090	Kelly Perkins / Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S-Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	Pesticide	PCB	Dioxin/Furan	TAL Metals				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	P				
PRESERVATIVE USED						4°C	4°C	4°C	4°C	HNO3				
4/20	1350	OU4-RB-042011-01	Aq	G	9	2	2	2	2	2				
↓	1400	OU4-SB-042011-01	↓	↓	↓	2	2	2	2	2				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/20/11	1400	1. RECEIVED BY	4/20/11	10:7
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

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FORM NO. TtNUS-001

8000028

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER DE2017 | PAGE 1 OF 1

PROJECT NO: 112G02225	SITE NAME: OU4	PROJECT MANAGER AND PHONE NUMBER: Dan White 412-921-7090	LABORATORY NAME AND CONTACT: Kelly Perkins / Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Cu, Pb, Ni								COMMENTS
4/21	0820	OU4-SD-M11-311B	Sed	C	1	1								

1. RELINQUISHED BY	DATE 4/21/11	TIME 0855	1. RECEIVED BY	DATE 4/21/11	TIME 0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

620000

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	KAP	Sampled By:	Client
Project:		KIMS Entry By:	GN	Delivered By:	KAS
KAS Work Order#:	SE2074	KIMS Review By:		Received By:	DD
SDG #:	Cooler: 1 of 4			Date/Time Rec.:	4/20/11 1710

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓	✓			
5. Temperature Blanks present? If not, take temperature of any sample w/.IR gun.	✓ ✓				Temp (°C): -0.1
Samples received at <6 °C w/o freezing?					Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

4-19-10 19:00 chain says M03-111B 12 jars. ~~each 1L~~ ~~on~~ jars say M08-111B. - per client, jars are correct

0000013

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	KAP	Sampled By:	Client
Project:		KIMS Entry By:	GN	Delivered By:	KAS
KAS Work Order#:	SE2074	KIMS Review By:		Received By:	DD
SDG #:	Cooler: 2 of 4			Date/Time Rec.:	4/20/11 1710

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓	✓			
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓ ✓				Temp (°C): 1.0
Samples received at <6 °C w/o freezing?					Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log in Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

0000014

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	KAP	Sampled By:	client
Project:		KIMS Entry By:	GN	Delivered By:	KAS
KAS Work Order#:	SE2074	KIMS Review By:		Received By:	DD
SDG #:	Cooler: 3 of 4			Date/Time Rec.:	4/20/11 1710

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓ ✓	✓			
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓ ✓				Temp (°C): 2.1
Samples received at <6 °C w/o freezing?					Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

00000015

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	KAP	Sampled By:	client
Project:		KIMS Entry By:	GN	Delivered By:	KAS
KAS Work Order#:	SE2074	KIMS Review By:		Received By:	DD
SDG #:	Cooler: 4 of 4			Date/Time Rec.:	4/20/11 1710

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 1.7
Samples received at <6 °C w/o freezing?					Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2	✓				
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

0000016

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	KAP	Sampled By:	Client
Project:		KIMS Entry By:	GN	Delivered By:	KAS
KAS Work Order#:	SE2079	KIMS Review By:		Received By:	DD
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	4/21/11 0940

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 2.0
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

00000024

Kelly Perkins

From: Hill, Shannon [Shannon.Hill@tetratech.com]
Sent: Wednesday, April 20, 2011 10:06 PM
To: Kelly Perkins
Subject: [Possible SPAM] Sample COCs

Importance: Low

Hi Kelly,

I found 1 mistake on my COCs from today. The sample collected on 4/19/11 at 1900 (the MS/MSD) is sample ID #: OU4-SD-M08-111B (its identified as OU4-SD-M03-111B on the COC). The sample bottles are labeled correctly.

Thanks,
Shannon

Shannon Hill | Geoscientist
Direct: 412-921-8876 | Main: 412-921-7090 | Fax: 412-921-4040
Shannon.Hill@tetratech.com

Tetra Tech | Geosciences
661 Andersen Drive Foster Plaza 7 | Pittsburgh, PA 15220 | www.ttnus.com

Live Green, Work Green, Save Green

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L100000

Jennifer Obrin

From: Kelly Perkins [kperkins@katahdinlab.com]
Sent: Friday, April 29, 2011 2:28 PM
To: 'Peter Lemay'; 'George'; 'Deb Nadeau'; jobrin@katahdinlab.com
Subject: FW: PNS OU4 solids results (SE2074)

Importance: High

fyi

Kelly Perkins
Project Manager
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
(207) 874-2400 Ext. 17

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From: Kraus, Matthew [mailto:Matthew.Kraus@tetratech.com]
Sent: Friday, April 29, 2011 2:18 PM
To: Kelly Perkins
Cc: Witt, Daniel; Hill, Shannon
Subject: RE: PNS OU4 solids results (SE2074)

Hi Kelly,

The SOW states pertaining to % solids that:

The required reporting limits MUST be achieved, regardless the moisture content of the sediment samples.

Therefore, if the required reporting limits are exceeded due to moisture content we are asking that the lab do what it can (e.g. extract more sample, bring down extract values, etc) to meet the reporting limits required in the SOW.

If you have any other questions please let me know. Thanks for your time.

Matthew Kraus, EPI | Environmental Scientist III
Direct: 412.921.8729 | Main: 412.921.7090 | Personal Fax: 412.921.4040
matthew.kraus@tetratech.com

Tetra Tech | Chemistry and Toxicology
Foster Plaza 7| 661 Andersen Drive | Pittsburgh, PA 15220 | www.tetratech.com

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00000018

From: Kelly Perkins [mailto:kperkins@katahdinlab.com]
Sent: Tuesday, April 26, 2011 9:43 AM
To: Sedlmyer, Tobrena; Kraus, Matthew; Hill, Shannon
Subject: PNS OU4 solids results (SE2074)
Importance: High

Attached please find the total solids results for the first set of samples received from PNS OU4. The SOW says to extract more sample to account for the solids. Is this just for the samples with solids less than 30% or for all of them? Please note that probably the most we can do is to double the weight of sample extracted. We could also bring the pesticides and congener extracts down to a final volume of 2 mL instead of 10 mL. This would lower reporting limits by a factor of 5.

Please let me know how you'd like us to proceed. Extraction hold times start expiring 5/2.

Thanks!!

Kelly Perkins
Project Manager
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
(207) 874-2400 Ext. 17

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0000019

Jennifer Obrin

From: Kraus, Matthew [Matthew.Kraus@tetratech.com]
Sent: Monday, May 02, 2011 12:27 PM
To: Deb Nadeau; 'Kelly Perkins'; 'Peter Lemay'; 'George'; jobrin@katahdinlab.com
Cc: Cohen, Deborah; Witt, Daniel
Subject: RE: PNS OU4 solids results (SE2074)

Hi Deb,

Thanks for the input. Please do keep us posted.

Matthew Kraus, EPI | Environmental Scientist III
Direct: 412 921 8729 | Main: 412 921.7090 | Personal Fax: 412.921.4040
matthew.kraus@tetratech.com

Tetra Tech | Chemistry and Toxicology
Foster Plaza 7| 661 Andersen Drive | Pittsburgh, PA 15220 | www.tetratech.com

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From: Deb Nadeau [mailto:dnadeau@katahdinlab.com]
Sent: Monday, May 02, 2011 12:25 PM
To: 'Kelly Perkins'; 'Peter Lemay'; 'George'; jobrin@katahdinlab.com; Kraus, Matthew
Subject: RE: PNS OU4 solids results (SE2074)

Matthew,

We will do our best in the lab to comply with the SOW. However, sometimes using more solid or further concentrating the final volume can compound the effects of matrix interferences, which usually necessitate diluting a sample. Diluting a sample increases the reporting level. Many of these dilutions are required by the method (i.e. interelement corrections for metals). We will keep you posted of any problems that we may encounter.

Thank you,
Deb Nadeau

Deborah Nadeau
Laboratory Operations Manager
Katahdin Analytical Services
A Woman-Owned Small Business Enterprise
600 Technology Way
Scarborough, Maine 04074
Direct - 207.874.2400 x19
Fax - 207.775.4029
www.katahdinlab.com

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From: Kelly Perkins [mailto:kperkins@katahdinlab.com]
Sent: Friday, April 29, 2011 2:28 PM

0000020

To: 'Peter Lemay'; 'George'; 'Deb Nadeau'; jobrin@katahdinlab.com
Subject: FW: PNS OU4 solids results (SE2074)
Importance: High

fyi

Kelly Perkins
Project Manager
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
(207) 874-2400 Ext. 17

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From: Kraus, Matthew [mailto:Matthew.Kraus@tetratech.com]
Sent: Friday, April 29, 2011 2:18 PM
To: Kelly Perkins
Cc: Witt, Daniel; Hill, Shannon
Subject: RE: PNS OU4 solids results (SE2074)

Hi Kelly,

The SOW states pertaining to % solids that:

The required reporting limits MUST be achieved, regardless the moisture content of the sediment samples.

Therefore, if the required reporting limits are exceeded due to moisture content we are asking that the lab do what it can (e.g. extract more sample, bring down extract values, etc) to meet the reporting limits required in the SOW.

If you have any other questions please let me know. Thanks for your time.

Matthew Kraus, EPI | Environmental Scientist III
Direct. 412.921.8729 | Main: 412.921.7090 | Personal Fax. 412.921.4040
matthew.kraus@tetratech.com

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From: Kelly Perkins [mailto:kperkins@katahdinlab.com]
Sent: Tuesday, April 26, 2011 9:43 AM
To: Sedlmyer, Tobrena; Kraus, Matthew; Hill, Shannon
Subject: PNS OU4 solids results (SE2074)
Importance: High

0000021

Attached please find the total solids results for the first set of samples received from PNS OU4. The SOW says to extract more sample to account for the solids. Is this just for the samples with solids less than 30% or for all of them? Please note that probably the most we can do is to double the weight of sample extracted. We could also bring the pesticides and congener extracts down to a final volume of 2 mL instead of 10 mL. This would lower reporting limits by a factor of 5.

Please let me know how you'd like us to proceed. Extraction hold times start expiring 5/2.

Thanks!!

Kelly Perkins
Project Manager
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
(207) 874-2400 Ext. 17

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No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 9.0.894 / Virus Database: 271.1.1/3603 - Release Date: 04/29/11 02:34:00

Jennifer Obrin

From: Kelly Perkins [kperkins@katahdinlab.com]
Sent: Friday, May 06, 2011 1:03 PM
To: jobrin@katahdinlab.com
Subject: FW: PNS CTO WE29 OU4 Pesticide Surrogate recoveries (SE2074-32)

Kelly Perkins
Project Manager
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
(207) 874-2400 Ext. 17

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From: Kraus, Matthew [mailto:Matthew.Kraus@tetratech.com]
Sent: Friday, May 06, 2011 12:57 PM
To: Kelly Perkins
Cc: Witt, Daniel
Subject: RE: PNS CTO WE29 OU4 Pesticide Surrogate recoveries (SE2074-32)

Hi Kelly,

Just report the sample as is. Thanks.

Matt

From: Kelly Perkins [mailto:kperkins@katahdinlab.com]
Sent: Friday, May 06, 2011 12:46 PM
To: Kraus, Matthew
Subject: PNS CTO WE29 OU4 Pesticide Surrogate recoveries (SE2074-32)
Importance: High

Hi Matt,

We have a pesticide rinse blank sample from PNS CTO WE29 OU4 (SE2074-32, OU4-RB-042011-01) with DCB surrogate recoveries (30% and 33%) below acceptance limits (41-131%). The TCX surrogate recoveries for this sample are within acceptance limits. Extraction holding time expired 4/27/11. Please let me know how you'd like us to proceed.

Thanks!!

Kelly Perkins
Project Manager
Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
(207) 874-2400 Ext. 17

0000023

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 (

Primary Report Address:
Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Primary Invoice Address:
Accounts Payable
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming: TETRATWE29-OU4

Login Information

ANALYSIS INSTRUCTIONS	:	DoD QSM with lab limits. ND to LOD. "J" flag between MDL and LOQ. Note additional PAH, Pest and cogener compounds. Metals run MS/lab dup, post digestion spike and serial dilution. TS must be run first and then sample aliquot increased to account for moisture.
CHECK NO.	:	
CLIENT PO#	:	1045366 15-CTOWE29
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	-0.1, 1.0, 2.1, 1.7
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS119QC-CSV
LOGIN INITIALS	:	GN
PM	:	KAP
PROJECT NAME	:	PNS CTO WE29 OU4
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send hardcopy, pdf (2 copies/2 CDs) and EDD to Tobrena. Summary package needs all forms.
SDG STATUS	:	Begin

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	SDG	PR	Verbal Date	Due Date	Mailed
SE2074-1	OU4-SD-M03-311B	18-APR-11 13:15	20-APR-11				08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	15-OCT-11			DOD
Solid	S	SW6010-COPPER	15-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	02-MAY-11	100g Glass		
Solid	S	TS	18-MAY-11	100g Glass		

SE2074-2	OU4-SD-M04-211B	18-APR-11 13:35	20-APR-11				08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	15-OCT-11			DOD
Solid	S	SW6010-COPPER	15-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	02-MAY-11	100g Glass		
Solid	S	TS	18-MAY-11	100g Glass		

SE2074-3	OU4-SD-M03-211B	18-APR-11 18:04	20-APR-11				08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	15-OCT-11			DOD
Solid	S	SW6010-COPPER	15-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	02-MAY-11	100g Glass		
Solid	S	TS	18-MAY-11	100g Glass		

SE2074-4	OU4-SD-M03-111B	18-APR-11 18:15	20-APR-11				08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	15-OCT-11			DOD
Solid	S	SW6010-COPPER	15-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	02-MAY-11	100g Glass		
Solid	S	TS	18-MAY-11	100g Glass		

SE2074-5	OU4-SD-M04-111B	18-APR-11 18:30	20-APR-11				08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	15-OCT-11			DOD
Solid	S	SW6010-COPPER	15-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	02-MAY-11	100g Glass		
Solid	S	TS	18-MAY-11	100g Glass		

SE2074-6	OU4-SD-M04-311B	18-APR-11 18:35	20-APR-11				08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	15-OCT-11			DOD
Solid	S	SW6010-COPPER	15-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	02-MAY-11	100g Glass		
Solid	S	TS	18-MAY-11	100g Glass		

0000030
KAP 4/22/11

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074

Quote/Incoming: TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 C

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-7	OU4-SD-M01-111B	19-APR-11 07:20	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		DOD
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-8	OU4-SD-M01-211B	19-APR-11 07:40	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		DOD
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-9	OU4-SD-M01-311B	19-APR-11 07:55	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		DOD
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-10	OU4-FD-041911-01	19-APR-11 00:00	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		DOD
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-11	OU4-SD-M09-211B	19-APR-11 10:57	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

0000031
Kap 4/22/11

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074

Quote/Incoming: TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 C

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-12	OU4-SD-M09-311B	19-APR-11 11:25	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-13	OU4-SD-M08-211B	19-APR-11 11:42	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-14	OU4-SD-M07-211B	19-APR-11 12:10	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

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KAP 4/22/11

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074 **Quote/Incoming:** TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 C

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-15	OU4-SD-M07-311B	19-APR-11 12:25	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-16	OU4-SD-M12-511B	19-APR-11 13:40	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	TS	19-MAY-11	4oz Glass		

SE2074-17	OU4-SD-M12-411B	19-APR-11 13:50	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	TS	19-MAY-11	4oz Glass		

SE2074-18	OU4-SD-M12-611B	19-APR-11 14:05	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	TS	19-MAY-11	4oz Glass		

SE2074-19	OU4-SD-M12-311B	19-APR-11 14:12	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	4oz Glass		

SE2074-20	OU4-SD-M12-211B	19-APR-11 14:25	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	4oz Glass		

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Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074 Quote/Incoming: TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 (

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-21	OU4-SD-M05-211B	19-APR-11 17:40	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			MS/MSD DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-22	OU4-SD-M05-111B	19-APR-11 17:50	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-23	OU4-SD-M05-411B	19-APR-11 18:00	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

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Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074

Quote/Incoming: TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 C

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-24	OU4-SD-M05-311B	19-APR-11 18:10	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-25	OU4-FD-041911-02	19-APR-11 00:00	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-26	OU4-SD-M07-111B	19-APR-11 18:20	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

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Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074 **Quote/Incoming:** TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 (

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-27	OU4-SD-M08-311B	19-APR-11 18:50	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-28	OU4-SD-FD-041911-03	19-APR-11 00:00	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-29	OU4-SD-M08-111B	19-APR-11 19:00	20-APR-11	08-MAY-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			MS/MSD DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

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KAP 4/22/11

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ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074

Quote/Incoming: TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 C

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-30	OU4-SD-M09-111B	19-APR-11 19:10	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	16-OCT-11			DOD
Solid	S	SW6010-ALUMINUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-ARSENIC	16-OCT-11	4oz Glass		
Solid	S	SW6010-CADMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-CHROMIUM	16-OCT-11	4oz Glass		
Solid	S	SW6010-COPPER	16-OCT-11	4oz Glass		
Solid	S	SW6010-IRON	16-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	16-OCT-11	4oz Glass		
Solid	S	SW6010-MANGANESE	16-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	16-OCT-11	4oz Glass		
Solid	S	SW6010-SILVER	16-OCT-11	4oz Glass		
Solid	S	SW6010-ZINC	16-OCT-11	4oz Glass		
Solid	S	SW7471-MERCURY	17-MAY-11	50g Glass		
Solid	S	SW8081-S	03-MAY-11	100g Glass		
Solid	S	SW8082-CONG-S	03-MAY-11	100g Glass		
Solid	S	SW8270SIM-S	03-MAY-11	100g Glass		
Solid	S	SW8290-DIOXIN-SUB		100g Glass		
Solid	S	TS	19-MAY-11	100g Glass		

SE2074-31	OU4-SD-M12-111B	20-APR-11 08:30	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	17-OCT-11			DOD
Solid	S	SW6010-LEAD	17-OCT-11	4oz Glass		
Solid	S	SW8270SIM-S	04-MAY-11	100g Glass		
Solid	S	TS	20-MAY-11	100g Glass		

SE2074-32	OU4-RB-042011-01	20-APR-11 13:50	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	17-OCT-11	250mL Plastic+HNO3		DOD
Aqueous	S	SW6010-ALUMINUM	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-CADMIUM	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-CHROMIUM	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-COPPER	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-IRON	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-LEAD	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-MANGANESE	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-NICKEL	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-SILVER	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ZINC	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW7470-MERCURY	18-MAY-11	500mL Plastic+HNO3		
Aqueous	S	SW8081-S	27-APR-11	1L N-Amber Glass		
Aqueous	S	SW8082-CONG-S	27-APR-11	1L N-Amber Glass		
Aqueous	S	SW8270SIM-S	27-APR-11	1L N-Amber Glass		
Aqueous	S	SW8290-DIOXIN-SUB				

0000037
KSP 4/22/11

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
12:50 PM

Login Number: SE2074

Quote/Incoming: TETRATWE29-OU4

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 (

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SE2074-33	OU4-SB-042011-01	20-APR-11 14:00	20-APR-11			08-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW3010-PREP	17-OCT-11	250mL Plastic+HNO3		DOD
Aqueous	S	SW6010-ALUMINUM	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ARSENIC	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-CADMIUM	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-CHROMIUM	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-COPPER	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-IRON	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-LEAD	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-MANGANESE	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-NICKEL	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-SILVER	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW6010-ZINC	17-OCT-11	250mL Plastic+HNO3		
Aqueous	S	SW7470-MERCURY	18-MAY-11	500mL Plastic+HNO3		
Aqueous	S	SW8081-S	27-APR-11	1L N-Amber Glass		
Aqueous	S	SW8082-CONG-S	27-APR-11	1L N-Amber Glass		
Aqueous	S	SW8270SIM-S	27-APR-11	1L N-Amber Glass		
Aqueous	S	SW8290-DIOXIN-SUB				

Total Samples: ***33*** ***Total Analyses:*** ***342***

0000038
KAS 4/22/11

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Apr. 22, 2011
11:58 AM

Login Number: SE2079

Account: TETRAT001 Web
Tetra Tech NUS, Inc.

Project: TETRATWE29-OU4
Portsmouth Naval Shipyard CTO WE29 C

Quote/Incoming: TETRATWE29-OU4

Primary Report Address:
Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Primary Invoice Address:
Accounts Payable
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	DoD QSM with lab limits. ND to LOD. "J" flag between MDL and LOQ. Note additional PAH, Pest and cogener compounds. Metals run MS/lab dup, post digestion spike and serial dilution. TS must be run first and then sample aliquot increased to account for moisture.
CHECK NO.	:	
CLIENT PO#	:	1045366 15-CTOWE29
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	2.0
DELIVERY SERVICES	:	KAS
EDD FORMAT	:	KAS119QC-CSV
LOGIN INITIALS	:	GN
PM	:	KAP
PROJECT NAME	:	PNS CTO WE29 OU4
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send hardcopy, pdf (2 copies/2 CDs) and EDD to Tobrena. Summary package needs all forms.
SUG STATUS	:	Eng

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	SD	PR	Verbal Date	Due Date	Mailed
SE2079-1	OU4-SD-M11-311B	21-APR-11 08:20	21-APR-11				09-MAY-11	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW3050-PREP	18-OCT-11			
Solid	S	SW6010-COPPER	18-OCT-11	4oz Glass		
Solid	S	SW6010-LEAD	18-OCT-11	4oz Glass		
Solid	S	SW6010-NICKEL	18-OCT-11	4oz Glass		
Solid	S	TS	21-MAY-11	4oz Glass		

Total Samples: *1* ***Total Analyses:*** *5*

0000039
KAP 4/28/11

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticide/Aroclor analyte when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

MCL — Maximum Contaminant Level

NL — No limit

NFL — No Free Liquid Present

FLP — Free Liquid Present

NOD — No Odor Detected

TON — Threshold Odor Number

H1 — Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 — Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 — Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 — Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

METALS SAMPLE FLAGGING

FLAG	SPECIFIED MEANING
E	The reported value is estimated because of the presence of interference (as indicated by serial dilution).
N	Spiked sample recovery not within control limits.
*	Duplicate sample analysis not within control limits.
•	Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.
U	The analyte was not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client. Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.
J	The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ) (previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
PNS CTO WE29 OU4
SDG: WE29-1
SD2074, SE2079

Sample Receipt

The following samples were received on April 20 and 21, 2011 and were logged in under Katahdin Analytical Services work order numbers SD2074 and SE2079 for a hardcopy due date of May 9, 2011.

KATAHDIN Sample No.	TTNUS Sample Identification
SE2074-1	OU4-SD-M03-311B
SE2074-2	OU4-SD-M04-211B
SE2074-3	OU4-SD-M03-211B
SE2074-4	OU4-SD-M03-111B
SE2074-5	OU4-SD-M04-111B
SE2074-6	OU4-SD-M04-311B
SE2074-7	OU4-SD-M01-111B
SE2074-8	OU4-SD-M01-211B
SE2074-9	OU4-SD-M01-311B
SE2074-10	OU4-FD-041911-01
SE2074-11	OU4-SD-M09-211B
SE2074-12	OU4-SD-M09-311B
SE2074-13	OU4-SD-M08-211B
SE2074-14	OU4-SD-M07-211B
SE2074-15	OU4-SD-M07-311B
SE2074-16	OU4-SD-M12-511B
SE2074-17	OU4-SD-M12-411B
SE2074-18	OU4-SD-M12-611B
SE2074-19	OU4-SD-M12-311B
SE2074-20	OU4-SD-M12-211B
SE2074-21	OU4-SD-M05-211B
SE2074-22	OU4-SD-M05-111B
SE2074-23	OU4-SD-M05-411B
SE2074-24	OU4-SD-M05-311B
SE2074-25	OU4-FD-041911-02
SE2074-26	OU4-SD-M07-111B
SE2074-27	OU4-SD-M08-311B
SE2074-28	OU4-SD-FD-041911-03
SE2074-29	OU4-SD-M08-111B
SE2074-30	OU4-SD-M09-111B
SE2074-31	OU4-SD-M12-111B
SE2074-32	OU4-RB-042011-01

SE2074-33 OU4-SB-042011-01
SE2079-1 OU4-SD-M11-311B

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Kelly Perkins**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WE29-1 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8270C SIM Analysis

Sample SE2074-21 and 29 were used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client.

All soil samples and associated QC were subjected to the GPC sample clean-up process.

Surrogate recoveries for all samples and QC were evaluated using laboratory established acceptance limits.

The reported percent recovery acceptance limits for the aqueous Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds and nominal limits for all additional compounds. The limits for the soil LCS's are nominal acceptable limits. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long the LCS is acceptable. Nominal limits are used for the soil LCS/LCSD until enough data is collected to generate statistically based acceptance limits.

Samples SE2074-1, 2, 3, 3DL, 4, 4DL, 5, 5DL, 6, 7, 7DL, 8, 8Dl, 9, 10, 10DL, 11, 11DL, 12, 12DL, 13, 13DL, 14, 15, 19DL, 20, 21, 22, 22DL, 23, 23DL, 24, 25, 26, 27, 28, 29, 30, and 31DL

were manually integrated for the analytes perylene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, acenaphthene, naphthalene, and/or dibenzothiophene. The specific reason for the manual integration is indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

Sample SE2074-23DL had a low recovery for the surrogate fluorene-d10, which was outside of the laboratory established acceptance limits. Samples SE2074-20DL and 22DL had no recoveries for the surrogate fluorene-d10. The undiluted analyses had acceptable surrogate recoveries. The low or no recovery for this surrogate is due to the low response of the surrogate from the dilution and a low response is not accurate due to a linear calibration.

The LCSD WG90525-3 had a low recovery for one surrogate and low recoveries for 15 spiked analytes, which were outside the laboratory established acceptance limits. The LCS WG90525-2 had a high recovery for one analyte and a low recovery for another analyte, which were outside the laboratory established acceptance limits. The DoD QSM allowable number of exceedances for 19 target analytes is one analyte. DoD QSM Version 4.1 Section G.7 lists the acceptance limits of the SW-846 Method 8270 target analytes. However, there is no indication if the analyses are analyzed by SCAN or SIM. The laboratory has used laboratory established acceptance limits for SIM analyses. If the DoD QSM acceptance limits are applied, the LCS recoveries were acceptable. Since the LCS was acceptable with DoD QSM acceptance limits, no further action was taken.

The LCSD WG90714-3 had high recoveries for three spiked analytes, which were outside the laboratory established acceptance limits. The DoD QSM allowable number of exceedances for 19 target analytes is one analyte. DoD QSM Version 4.1 Section G.7 lists the acceptance limits of the SW-846 Method 8270 target analytes. However, there is no indication if the analyses are analyzed by SCAN or SIM. The laboratory has used laboratory established acceptance limits for SIM analyses. If the DoD QSM acceptance limits are applied, the LCSD recoveries were acceptable. Since the LCS was acceptable and the LCSD was acceptable with DoD QSM acceptance limits, no further action was taken.

The MS WG90714-6 had a recovery for the spiked analyte fluoranthene that was non-calculable and reported as 0% recovery due to the concentration in the native sample being higher than in the MS. This is likely due to a non-homogeneous sample.

The independent check standard (file G0955), associated with the initial calibration on 04/23/2011, had low concentrations for the target analytes benzo(k)fluoranthene and indeno(1,2,3-cd)pyrene, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated.

The independent check standard (file G1038), associated with the initial calibration on 04/29/2011, had low concentrations for the target analytes dibenzo(a,h) anthracene, benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL. The Independent Check Report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated.

The CV's (files G0994, G1138, and G1152) had low responses for the target analytes benzo(b)fluoranthene and/or indeno(1,2,3-cd)pyrene, which resulted in %D's that were greater than the acceptance limit of 20% from DoD QSM Version 4.1.

The CV (file G1066) had a high response for the target analyte benzo(k)fluoranthene, which resulted in a %D that was greater than the acceptance limit of 20% from DoD QSM Version 4.1.

The CV's (files G1088 and G1104) had high responses for the surrogate fluorene-d10, which resulted in %D's that were greater than the acceptance limit of 20% from DoD QSM Version 4.1.

8081 Analysis

Sample SE2074-29 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client.

All soil samples and associated QC were subjected to the GPC sample clean-up process.

Surrogate recoveries for all samples and QC were evaluated using laboratory established acceptance limits.

Samples SE2074-11, 12, 13, 14, 15, 26, 28, 29, and 30 were manually integrated for the surrogates TCX and DCB, and/or the target analytes 4,4'-DDE, 4,4'-DDD, 4,4'-DDT, hexachlorobenzene, and/or 2,4'-DDD. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

Samples SE2074-12, 13, 14, 29, and 30 had RPD's for 4,4'-DDT, 4,4'-DDE, 4,4'-DDD, and heptachlor epoxide that were outside of the method acceptance limits of 40%. These analytes are flagged with a "J" qualifier on the report of analysis (ROA).

Sample SE2074-32 had low recoveries for the extraction surrogate DCB on both channels, which were outside of the laboratory established acceptance limits. The recoveries for TCX were within the acceptance limits. The client was contacted and informed the laboratory that the sample did not need to be reextracted.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds and nominal limits for all additional compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long the LCS is acceptable.

Note: The Form VII has a column for %D that is set to 15%. The DoD QSM criterion for a CV is 20%D. All of the compounds in the CV's were evaluated to 20% criteria.

The opening/closing CV (file 1EE00090) had a high response for the surrogate TCX on channel B, which resulted in a %D that was outside of the DoD QSM acceptance limits of 20%. Since the response was acceptable on channel A, the associated samples were not reanalyzed.

The opening/closing CV (file 1EE00102) had high responses for the surrogate TCX, as well as the analytes delta-BHC, gamma-BHC, and beta-BHC on channel B, which resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on channel A, the associated samples were not reanalyzed.

The closing CV (file 1EE00112) had high responses for the surrogate TCX, and the analytes delta-BHC and gamma-BHC on channel B, which resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on channel A, the associated samples were not reanalyzed.

The target analyte dieldrin coelutes with 2,4'-DDD on channel A, but these two analytes are resolved on channel B. Therefore, these analytes are quantitated using the results from the A channel for the LCS, LCSD, MS and MSD.

The target analyte endrin coelutes with 2,4'-DDT on channel A, but these two analytes are resolved on channel B. Therefore, these analytes are quantitated using the results from the B channel for the LCS, LCSD, MS and MSD.

The target analyte alpha chlordane coelutes with trans-nonachlor on channel B, but these two analytes are resolved on channel A. Therefore, these analytes are quantitated using the results from the A channel for the LCS, LCSD, MS, and MSD.

8082 Congener Analysis

Sample SE2074- 29 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client.

The laboratory procedure for concentrating PCB congener extracts is a final volume of 2mL. Because the extracts were concentrated to a final volume of 1mL, the soil sample and QC extracts were diluted 1:2 and were able to achieve the client required PQLs.

The target analyte PCB 114 coelutes with the non-target PCB 184 congener on channel A, but these two analytes are resolved on channel B. Therefore, the analyte PCB 114 is quantitated using the results from the B channel for the independent check, the LCS and LCSD.

The target analyte PCB 157 coelutes with the surrogate PCB 192 on channel A, but these two analytes are resolved on channel B. Therefore, PCB 157 is quantitated using the results from the B channel for the LCS and LCSD. The LCS and LCSD may be biased high for the surrogate PCB 192.

The target analyte PCB 81 coelutes with a non-target PCB 87 congener on channel B, but these two analytes are resolved on channel B. Therefore, the analyte PCB 81 is quantitated using the results from the A channel for the independent check, the LCS and LCSD.

The target analyte PCB 156 coelutes with the surrogate PCB 192 on channel B, but these two analytes are resolved on channel B. Therefore, PCB 157 is quantitated using the results from the A channel for the LCS and LCSD. The LCS and LCSD may be biased high for the surrogate PCB 192.

Surrogate recoveries for all samples and QC were evaluated using method acceptance limits.

Samples SE2074-12, 13, 14, 15, 27, 29, and 30 had RPD's for PCB 101, PCB 180, PCB 206, PCB 77, PCB 52, PCB 169, PCB 66, PCB 187, PCB 170, PCB 118 and/or PCB 105 that were outside of the method acceptance limits of 40%. These analytes are flagged with a "J" qualifier on the report of analysis (ROA).

Samples SE2074-11, 12, 13, 14, 15, 26, 27, 28, 29 and 30 were manually integrated for TCX, PCB 77, PCB 118, PCB 153, PCB 192, PCB 169, PCB 52, PCB 44, PCB 66, PCB 101, PCB 180, PCB 209, PCB 19?, PCB 81, PCB 137, PCB 206, PCB 170, PCB 105 and/or PCB 138. The specific reason for the manual integration is indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

The LCS/LCSD's WG90791-2 and 3 and WG90689-2 and 3 and the MS/MSD WG90791-4 and 5 had recoveries for the analyte PCB 153 that were high and outside of the nominal acceptance limits. The MSD also had a high recovery for PCB-81. These spiked analytes were not flagged with the "*" qualifier. Due to software limitations, the LCS/LCSD's and MS/MSD forms were not flagged for the recoveries of the spiked analytes that are outside of the acceptance criteria because they also have a "J" qualifier because the RPDs were outside of the method acceptance limits of 40% between column A and column B. The form 10's for the LCS/LCSDs and MS/MSD do not have any RPD's for any of the PCB spiked analytes that coelute with another compound.

The target analytes PCB 153 and PCB 170 were detected below ½ the reporting limit in the method blank WG90791-1. According to the DoD QSM section D.1.1.1, a method blank is considered to be contaminated if the concentration of any target analyte in the blank exceeds ½ the reporting limit. Since the method blank was acceptable, no further action was taken.

The MS WG90791-4 had a low recovery for the surrogate PCB 103 on channel A which was outside of the method acceptance limits. Since the other surrogates had acceptable recoveries, the sample was not reextracted.

Samples SE2074-11, 13, 14, 15, and 28 had low recoveries for the surrogates TCX, PCB 192 and PCB 103 on channel A which were outside of the method acceptance limits. Since the recoveries on channel B were acceptable, the samples were not reextracted.

The method blank WG90791-1 and the LCSD WG90791-3 had low recoveries for the surrogates TCX and PCB 103 on channel A which were outside of the method acceptance limits. Since the recoveries on channel B were acceptable, the associated samples were not reextracted.

The LCS WG90791-2 and MSD WG90791-5 had low recoveries for the surrogate PCB 103 on channel A and high recoveries for the surrogate PCB 192 on channel B which were outside of the

method acceptance limits. Since the recoveries were acceptable on the confirmation channels, the associated samples were not reextracted.

Samples SE2074-12 and 30 had low recoveries for the surrogates TCX and PCB 103 on both channels and low recoveries for PCB 192 on channel A which were outside of the method acceptance limits. Since the recoveries for PCB 192 on channel B were acceptable, the samples were not reextracted.

Samples SE2074-26, 27 and 29 had low recoveries for the surrogates PCB 192 and PCB 103 on channel A which were outside of the method acceptance limits. Since the recoveries on channel B were acceptable, the samples were not reextracted.

The LCS and LCSD WG90689-2 and 3 had high recoveries for the surrogate PCB 192 on one or both channels which were outside of the method acceptance limits. Since the recoveries for the other two surrogates were acceptable, the associated samples were not reextracted.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are nominal acceptance limits for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

Note: The Form VII has a column for %D that is set to 15%. The DoD QSM criterion for a CV is 20%D. All of the compounds in the CV's were evaluated to 20% criteria.

The independent check standard (file 7EE125), associated with the initial calibration analyzed on 05/05/11 had a low concentration for the target analyte PCB 66 on channel A, which exceeded the DoD QSM acceptance limit of ±20% of the expected value from the ICAL.

The opening calibration verification (CV) (file 7EE237) had a low response for PCB 195 on channel A and high responses for PCB 126 and PCB 169 on channel B. These responses resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on the confirmation channels, the associated samples were not reanalyzed.

The opening/closing CV (file 7EE244) had low responses for PCB 209, PCB 153, PCB 187 and PCB 195 on channel A and high responses for PCB 126 and PCB 169 on channel B. These responses resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on the confirmation channels, the associated samples were not reanalyzed.

The closing CV (file 7EE256) had low responses for the surrogates PCB 103 and PCB 192 on channel A, which resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on channel B, the associated samples were not reanalyzed.

The closing CV (file 7EE257) had low responses for most target analytes on channel A, which resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on channel B, the associated samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG WE29-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Numbers SE2074- (32 and 33) were digested for ICP analysis on 04/22/11 (QC Batch BD22ICW0) in accordance with USEPA Method 3010A.

Solid-matrix Katahdin Sample Numbers SE2074-(1-6 and 11-31) and SE2079-1 were digested for ICP analysis on 04/25/11 (QC Batches BD25ICS0 and BD25ICS1) in accordance with USEPA Method 3050B. Katahdin Sample Numbers SE2074-(21 and 29) were prepared in duplicate and with matrix-spiked aliquots.

ICP analyses of SDG WE29-1 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010. All samples were analyzed within holding times and all analytical run QC criteria were met.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Numbers SE2074-(32 and 33) were digested for mercury analysis on 04/25/11 (QC Batch BD25HGW1) in accordance with USEPA Method 7470A.

Solid-matrix Katahdin Sample Numbers SE2074-(11-15 and 21-30) were digested for mercury analysis on 05/05/11 (QC Batch BE05HGS0) in accordance with USEPA Method 7471B. Katahdin Sample Number SE2074-21 was prepared in duplicate and with a matrix-spiked aliquot.

Mercury analyses of SDG WE29-1 sample digestate was performed using a Cetac M6100 automated mercury analyzer in accordance with USEPA Method 7471B. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

The measured recovery of mercury in the matrix-spiked aliquot of Katahdin Sample Number SE2074-21 is outside the project acceptance criteria (80% - 120% recovery of the added element, if the native concentration is less than four times the amount added). The measured recovery of mercury in a post-digestion spiked aliquot of this sample is within the laboratory's acceptance criteria (75% - 125%).

The measured recoveries of copper, manganese, and zinc in the matrix-spiked aliquot of Katahdin Sample Number SE2074-29 are outside the project acceptance criteria (80% - 120% recovery of the added element, if the native concentration is less than four times the amount added). The measured recoveries of these analytes in a post-digestion spiked aliquot of this sample are within the laboratory's acceptance criteria (75% - 125%).

The duplicate analysis of Katahdin Sample Number SE2074-21 is outside the laboratory's acceptance limit (<20% relative difference between duplicate aliquots) for zinc.

The duplicate analysis of Katahdin Sample Number SE2074-29 is within the laboratory's acceptance limit (<20% relative difference between duplicate aliquots) for all elements.

The serial dilution analyses of Katahdin Sample Numbers SE2074-(21 and 29) are within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 10 times the LOQ) for all analytes.

Reporting of Metals Results

Analytical results for client samples have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Results that fall between the MDL and the laboratory's limits of quantitation (LOQ) are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQ's, MDLs and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of SDG WE29-1 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times. All quality control criteria were met.

Subcontracted Analysis

Analyses for Dioxin by Method 1613 were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Deborah J. Radeau for 6·6·11

Leslie Dimond
Quality Assurance Officer

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

SIM DATA

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD757 DFTPP Injection Date: 04/23/11

Instrument ID: GCMS-G DFTPP Injection Time: 0906

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.6 (1.2)1
69	Less than 100.0% of mass 198	48.0
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	58.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	25.9
365	1.0 - 100.0% of mass 198	5.0
441	0.0 - 100.0% of mass 443	9.5 (53.4)2
442	40.0 - 100.0% of mass 198	90.3
443	17.0 - 23.0% of mass 442	17.8 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0423	G0937	04/23/11	0924
02		SSTD8.00G0423	G0938	04/23/11	1008
03		SSTD5.00G0423	G0939	04/23/11	1051
04		SSTD2.00G0423	G0940	04/23/11	1134
05		SSTD0.50G0423	G0941	04/23/11	1216
06		SSTD0.20G0423	G0942	04/23/11	1259
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date(s): 04/23/11 04/23/11

Column: ZB5-MS ID: 0.25 (mm) Calibration Time(s): 0924 1259

LAB FILE ID: RF0.2: G0942 RF0.5: G0941 RF1: G0937
RF2: G0940 RF5: G0939 RF8: G0938

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF5	RF8	CURVE	COEFFICENTS A0	A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	0.872	1.014	1.034	0.974	0.922	0.858	AVRG		0.94579817	7.752	15.000
Dibenzothiophene	0.832	1.003	1.016	0.979	0.967	0.965	AVRG		0.96029823	6.869	15.000
1,1'-Biphenyl	1.328	1.612	1.635	1.571	1.570	1.531	AVRG		1.54115482	7.169	15.000
Acenaphthylene	1.517	1.855	1.890	1.847	1.850	1.796	AVRG		1.79258055	7.718	15.000
Perylene	1.018	1.156	1.222	1.155	1.153	1.116	AVRG		1.13680457	5.936	15.000
Acenaphthene	[illegible]	1.171	1.183	1.148	1.147	1.119	AVRG		1.12500448	6.497	15.000
Fluorene	1.129	1.314	1.336	1.327	1.349	1.315	AVRG		1.29496390	6.347	15.000
Phenanthrene	0.912	1.078	1.108	1.043	1.034	1.048	AVRG		1.03728816	6.471	15.000
Anthracene	0.853	1.009	1.066	1.022	1.034	1.049	AVRG		1.00539140	7.680	15.000
Fluoranthene	0.848	1.010	1.060	1.022	1.036	1.054	AVRG		1.00496539	7.848	15.000
Pyrene	1.306	1.475	1.559	1.467	1.516	1.497	AVRG		1.46993215	5.902	15.000
Benzo(a)anthracene	0.773	0.951	1.009	0.984	1.011	0.999	AVRG		0.95443075	9.584	15.000
Chrysene	0.963	1.125	1.115	1.043	1.045	1.006	AVRG		1.04957649	5.947	15.000
Benzo(b)fluoranthene	9636	33979	68903	172560	420690	671470	LINR	6.012e-002	0.82433213	0.99945	0.99000
Benzo(k)fluoranthene	1.443	1.594	1.704	1.512	1.507	1.411	AVRG		1.52837271	6.989	15.000
Benzo(a)pyrene	7911	26542	58991	138280	368960	560200	LINR	6.754e-002	0.97590294	0.99982	0.99000
Indeno(1,2,3-cd)pyrene	2672	10391	21500	52413	182100	277130	LINR	0.26342400	1.93934191	0.99628	0.99000
Dibenzo(a,h)anthracene	3049	13006	25781	62198	207160	310110	LINR	0.21707330	1.73332491	0.99704	0.99000
Benzo(g,h,i)perylene	0.457	0.654	0.643	0.605	0.710	0.665	AVRG		0.62243767	14.150	15.000
2-Methylnaphthalene-D10	0.997	1.206	1.203	1.167	1.164	1.123	AVRG		1.14331620	6.834	15.000
Fluorene-D10	1.447	1.552	1.467	1.376	1.289	1.239	AVRG		1.39503723	8.387	15.000
Pyrene-D10	0.928	1.061	1.112	1.058	1.084	1.091	AVRG		1.05548795	6.229	15.000

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD758 DFTPP Injection Date: 04/25/11

Instrument ID: GCMS-G DFTPP Injection Time: 0833

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.3
68	Less than 2.0% of mass 69	0.5 (1.0)1
69	Less than 100.0% of mass 198	47.8
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	58.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 199	26.4
365	1.0 - 100.0% of mass 198	5.0
441	0.0 - 100.0% of mass 443	8.4 (48.6)2
442	40.0 - 100.0% of mass 198	87.3
443	17.0 - 23.0% of mass 442	17.4 (19.9)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0423	G0954	04/25/11	0850
02		SIM IND CHECK	G0955	04/25/11	0932
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 04/25/11 Time: 0850

Lab File ID: G0954 Init. Calib. Date(s): 04/23/11 04/23/11

Init. Calib. Times: 0924 1259

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9460000	0.9376700	0.9376700	0.01	-0.88	20.00	AVRG
Dibenzothiophene	0.9600000	0.9277500	0.9277500	0.01	-3.36	20.00	AVRG
1,1'-Biphenyl	1.5410000	1.4478000	1.4478000	0.01	-6.05	20.00	AVRG
Acenaphthylene	1.7920000	1.7244000	1.7244000	0.01	-3.77	20.00	AVRG
Perylene	1.1370000	1.0873000	1.0873000	0.01	-4.37	20.00	AVRG
Acenaphthene	1.1250000	1.0802000	1.0802000	0.01	-3.98	20.01	AVRG
Fluorene	1.2950000	1.2210000	1.2210000	0.01	-5.71	20.00	AVRG
Phenanthrene	1.0370000	1.0159000	1.0159000	0.01	-2.03	20.00	AVRG
Anthracene	1.0060000	1.0173000	1.0173000	0.01	1.12	20.00	AVRG
Fluoranthene	1.0050000	1.0031000	1.0031000	0.01	-0.19	20.01	AVRG
Pyrene	1.4700000	1.4005000	1.4005000	0.01	-4.73	20.00	AVRG
Benzo(a)anthracene	0.9540000	0.9396900	0.9396900	0.01	-1.50	20.00	AVRG
Chrysene	1.0500000	0.9998100	0.9998100	0.01	-4.78	20.00	AVRG
Benzo(b)fluoranthene	0.8866300	1.0000000	1.0172000	0.01	-11.34	20.00	LINR
Benzo(k)fluoranthene	1.5280000	1.4237000	1.4237000	0.01	-6.82	20.00	AVRG
Benzo(a)pyrene	0.9283100	1.0000000	0.8958600	0.01	-7.17	20.01	LINR
Indeno(1,2,3-cd)pyrene	0.9276700	1.0000000	0.3696800	0.01	-7.23	20.00	LINR
Dibenzo(a,h)anthracene	0.9368800	1.0000000	0.4403200	0.01	-6.31	20.00	LINR
Benzo(g,h,i)perylene	0.6220000	0.6180600	0.6180600	0.01	-0.63	20.00	AVRG
2-Methylnaphthalene-D10	1.1430000	1.0744000	1.0744000	0.01	-6.00	20.00	AVRG
Fluorene-D10	1.3950000	1.3659000	1.3659000	0.01	-2.09	20.00	AVRG
Pyrene-D10	1.0560000	0.9965700	0.9965700	0.01	-5.63	20.00	AVRG

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD760 DFTPP Injection Date: 04/27/11

Instrument ID: GCMS-G DFTPP Injection Time: 0759

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.8
68	Less than 2.0% of mass 69	0.6 (1.3)1
69	Less than 100.0% of mass 198	48.6
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	59.8
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	26.6
365	1.0 - 100.0% of mass 198	4.6
441	0.0 - 100.0% of mass 443	6.6 (40.7)2
442	40.0 - 100.0% of mass 198	78.8
443	17.0 - 23.0% of mass 442	16.3 (20.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0427	G0994	04/27/11	0817
02	WG90525-BLANK	WG90525-1	G1004	04/27/11	1530
03	WG90525-LCS	WG90525-2	G1005	04/27/11	1612
04	WG90525-LCSD	WG90525-3	G1006	04/27/11	1655
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 04/27/11 Time: 0817

Lab File ID: G0994 Init. Calib. Date(s): 04/23/11 04/23/11

Init. Calib. Times: 0924 1259

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.9460000	0.8884900	0.8884900	0.01	-6.08	20.00	AVRG
Dibenzothiophene	0.9600000	0.9039200	0.9039200	0.01	-5.84	20.00	AVRG
1,1'-Biphenyl	1.5410000	1.3673000	1.3673000	0.01	-11.27	20.00	AVRG
Acenaphthylene	1.7020000	1.6264000	1.6264000	0.01	-9.24	20.00	AVRG
Perylene	1.1370000	1.0485000	1.0485000	0.01	-7.78	20.00	AVRG
Acenaphthene	1.1250000	1.0223000	1.0223000	0.01	-9.13	20.01	AVRG
Fluorene	1.2950000	1.1739000	1.1739000	0.01	-9.35	20.00	AVRG
Phenanthrene	1.0370000	0.9472300	0.9472300	0.01	-8.66	20.00	AVRG
Anthracene	1.0060000	0.9957800	0.9957800	0.01	-1.02	20.00	AVRG
Fluoranthene	1.0050000	0.8523300	0.8523300	0.01	-15.19	20.01	AVRG
Pyrene	1.4700000	1.5940000	1.5940000	0.01	8.44	20.00	AVRG
Benzo(a)anthracene	0.9540000	0.8276000	0.8276000	0.01	-13.25	20.00	AVRG
Chrysene	1.0500000	1.0798000	1.0798000	0.01	2.84	20.00	AVRG
Benzo(b)fluoranthene	0.7897100	1.0000000	0.8996600	0.01	-21.03	20.00	LINR <-
Benzo(k)fluoranthene	1.5280000	1.4153000	1.4153000	0.01	-7.38	20.00	AVRG
Benzo(a)pyrene	0.9042700	1.0000000	0.8712300	0.01	-9.57	20.01	LINR
Indeno(1,2,3-cd)pyrene	0.9975800	1.0000000	0.4057200	0.01	-0.24	20.00	LINR
Dibenzo(a,h)anthracene	1.1753000	1.0000000	0.5778800	0.01	17.53	20.00	LINR
Benzo(g,h,i)perylene	0.6220000	0.6880800	0.6880800	0.01	10.62	20.00	AVRG
2-Methylnaphthalene-D10	1.1430000	1.0279000	1.0279000	0.01	-10.07	20.00	AVRG
Fluorene-D10	1.3950000	1.3198000	1.3198000	0.01	-5.39	20.00	AVRG
Pyrene-D10	1.0560000	1.1704000	1.1704000	0.01	10.83	20.00	AVRG

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD762 DFTPP Injection Date: 04/29/11

Instrument ID: GCMS-G DFTPP Injection Time: 1507

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.7 (1.4)1
69	Less than 100.0% of mass 198	47.1
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	58.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	25.3
365	1.0 - 100.0% of mass 198	4.4
441	0.0 - 100.0% of mass 443	12.9 (76.4)2
442	40.0 - 100.0% of mass 198	88.9
443	17.0 - 23.0% of mass 442	16.9 (19.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0429	G1032	04/29/11	1525
02		SSTD8.00G0429	G1033	04/29/11	1608
03		SSTD5.00G0429	G1034	04/29/11	1653
04		SSTD2.00G0429	G1035	04/29/11	1736
05		SSTD0.50G0429	G1036	04/29/11	1819
06		SSTD0.20G0429	G1037	04/29/11	1903
07		SIM IND CHECK	G1038	04/29/11	1946
08					
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FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date(s): 04/29/11 04/29/11

Column: ZB5-MS ID: 0.25 (mm) Calibration Time(s): 1525 1903

LAB FILE ID: RF0.2: G1037 RF0.5: G1036 RF1: G1032
RF2: G1035 RF5: G1034 RF8: G1033

COMPOUND	RF0.2	RF0.5	RF1	RF2	RF5	RF8	CURVE	COEFFICENTS A0	A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	0.941	0.992	0.945	0.880	0.854	0.699	AVRG		0.88528029	11.727	15.000
Dibenzothiophene	0.965	0.805	0.995	0.901	0.899	0.801	AVRG		0.89437030	8.920	15.000
1,1'-Biphenyl	1.653	1.659	1.583	1.465	1.473	1.238	AVRG		1.51181077	10.456	15.000
Acenaphthylene	1.660	1.699	1.664	1.529	1.587	1.405	AVRG		1.59065339	6.904	15.000
Perylene	1.022	0.826	1.039	0.955	0.958	0.846	AVRG		0.94095962	9.338	15.000
Acenaphthene	1.019	1.105	1.030	0.951	0.978	0.837	AVRG		0.98698059	9.163	15.000
Fluorene	1.100	1.215	1.136	1.028	1.116	0.984	AVRG		1.09663747	7.465	15.000
Phenanthrene	1.031	1.078	1.032	0.945	0.948	0.821	AVRG		0.97596265	9.415	15.000
Anthracene	1.015	1.101	1.045	0.946	0.938	0.831	AVRG		0.97938183	9.706	15.000
Fluoranthene	0.933	1.048	0.981	0.889	0.993	0.772	AVRG		0.93586188	10.352	15.000
Pyrene	1.347	1.477	1.436	1.294	1.365	1.409	AVRG		1.38791968	4.740	15.000
Benzo(a)anthracene	0.945	1.050	1.010	0.925	0.962	0.822	AVRG		0.95210199	8.237	15.000
Chrysene	1.062	1.114	1.038	0.934	0.899	0.774	AVRG		0.97038649	12.905	15.000
Benzo(b)fluoranthene	1.009	1.174	1.065	0.997	1.039	0.890	AVRG		1.02883529	9.024	15.000
Benzo(k)fluoranthene	1.274	1.347	1.210	1.098	1.138	0.982	AVRG		1.17466029	11.090	15.000
Benzo(a)pyrene	0.873	0.957	0.926	0.863	0.903	0.792	AVRG		0.88583323	6.480	15.000
Indeno(1,2,3-cd)pyrene	0.489	0.578	0.549	0.566	0.607	0.571	AVRG		0.55990597	7.105	15.000
Dibenzo(a,h)anthracene	0.515	0.605	0.550	0.568	0.595	0.558	AVRG		0.56518670	5.742	15.000
Benzo(g,h,i)perylene	0.781	0.796	0.711	0.715	0.704	0.650	AVRG		0.72616503	7.449	15.000
2-Methylnaphthalene-D10	1.150	1.019	1.096	1.025	1.009	0.853	AVRG		1.02514958	9.813	15.000
Fluorene-D10	21635	53613	114540	192290	585690	1063600	LINR	-0.2448240	1.09931980	0.99151	0.99000
Pyrene-D10	0.909	0.769	0.975	0.885	0.935	0.975	AVRG		0.90796952	8.470	15.000

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD764 DFTPP Injection Date: 05/02/11

Instrument ID: GCMS-G DFTPP Injection Time: 1115

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.6 (1.3)1
69	Less than 100.0% of mass 198	46.3
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	59.4
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	24.9
365	1.0 - 100.0% of mass 198	4.4
441	0.0 - 100.0% of mass 443	13.9 (81.1)2
442	40.0 - 100.0% of mass 198	91.3
443	17.0 - 23.0% of mass 442	17.1 (18.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0502	G1066	05/02/11	1135
02	WG90713-BLANK	WG90713-1	G1072	05/02/11	1556
03	WG90713-LCS	WG90713-2,WE29	G1073	05/02/11	1638
04	WG90713-LCSD	WG90713-3,WE29	G1074	05/02/11	1720
05	WG90714-BLANK	WG90714-1	G1075	05/02/11	1803
06	WG90714-LCS	WG90714-2,WE29	G1076	05/02/11	1846
07	WG90714-LCSD	WG90714-3,WE29	G1077	05/02/11	1929
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/02/11 Time: 1135

Lab File ID: G1066 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Naphthalene	0.8850000	0.9964700	0.9964700	0.01	12.60	20.00	AVRG	
Dibenzothiophene	0.8940000	1.0386000	1.0386000	0.01	16.17	20.00	AVRG	
1,1'-Biphenyl	1.5120000	1.5283000	1.5283000	0.01	1.08	20.00	AVRG	
Acenaphthylene	1.5910000	1.7908000	1.7908000	0.01	12.56	20.00	AVRG	
Perylene	0.9410000	1.1008000	1.1008000	0.01	16.98	20.00	AVRG	
Acenaphthene	0.9870000	1.1027000	1.1027000	0.01	11.72	20.01	AVRG	
Fluorene	1.0960000	1.3054000	1.3054000	0.01	19.11	20.00	AVRG	
Phenanthrene	0.9760000	1.0920000	1.0920000	0.01	11.88	20.00	AVRG	
Anthracene	0.9790000	1.0887000	1.0887000	0.01	11.20	20.00	AVRG	
Fluoranthene	0.9360000	1.0934000	1.0934000	0.01	16.82	20.01	AVRG	
Pyrene	1.3880000	1.5318000	1.5318000	0.01	10.36	20.00	AVRG	
Benzo(a)anthracene	0.9520000	1.0432000	1.0432000	0.01	9.58	20.00	AVRG	
Chrysene	0.9700000	1.1588000	1.1588000	0.01	19.46	20.00	AVRG	
Benzo(b)fluoranthene	1.0290000	1.0048000	1.0048000	0.01	-2.35	20.00	AVRG	
Benzo(k)fluoranthene	1.1750000	1.4361000	1.4361000	0.01	22.22	20.00	AVRG	<-
Benzo(a)pyrene	0.8860000	0.9608400	0.9608400	0.01	8.45	20.01	AVRG	
Indeno(1,2,3-cd)pyrene	0.5600000	0.5351300	0.5351300	0.01	-4.44	20.00	AVRG	
Dibenzo(a,h)anthracene	0.5650000	0.5864700	0.5864700	0.01	3.80	20.00	AVRG	
Benzo(g,h,i)perylene	0.7260000	0.7722700	0.7722700	0.01	6.37	20.00	AVRG	
2-Methylnaphthalene-D10	1.0250000	1.0565000	1.0565000	0.01	3.07	20.00	AVRG	
Fluorene-D10	1.0402000	1.0000000	1.1243000	0.01	4.02	20.00	LINR	
Pyrene-D10	0.9080000	1.0445000	1.0445000	0.01	15.03	20.00	AVRG	

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD765 DFTPP Injection Date: 05/03/11

Instrument ID: GCMS-G DFTPP Injection Time: 0851

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.6
68	Less than 2.0% of mass 69	0.5 (1.2)1
69	Less than 100.0% of mass 198	43.8
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	55.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	26.2
365	1.0 - 100.0% of mass 198	4.1
441	0.0 - 100.0% of mass 443	12.5 (79.2)2
442	40.0 - 100.0% of mass 198	84.9
443	17.0 - 23.0% of mass 442	15.8 (18.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G05023	G1088	05/03/11	0908
02	OU4-SD-M05-211B	SE2074-21	G1092	05/03/11	1223
03	OU4-SD-M05-211BMS	WG90714-6	G1093	05/03/11	1306
04	OU4-SD-M05-211BMSD	WG90714-7	G1094	05/03/11	1349
05	OU4-SD-M08-111B	SE2074-29	G1095	05/03/11	1431
06	OU4-SD-M08-111BMS	WG90714-8	G1096	05/03/11	1514
07	OU4-SD-M08-111BMSD	WG90714-9	G1097	05/03/11	1556
08	OU4-SD-M03-311B	SE2074-1	G1098	05/03/11	1639
09	OU4-SD-M04-211B	SE2074-2	G1099	05/03/11	1722
10	OU4-SD-M03-211B	SE2074-3	G1100	05/03/11	1805
11	OU4-SD-M03-111B	SE2074-4	G1101	05/03/11	1848
12	OU4-SD-M04-111B	SE2074-5	G1102	05/03/11	1931
13	OU4-SD-M04-311B	SE2074-6	G1103	05/03/11	2014
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/03/11 Time: 0908

Lab File ID: G1088 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Naphthalene	0.8850000	0.9392600	0.9392600	0.01	6.13	20.00	AVRG	
Dibenzothiophene	0.8940000	0.9629500	0.9629500	0.01	7.71	20.00	AVRG	
1,1'-Biphenyl	1.5120000	1.5327000	1.5327000	0.01	1.37	20.00	AVRG	
Acenaphthylene	1.5910000	1.7134000	1.7134000	0.01	7.69	20.00	AVRG	
Perylene	0.9410000	1.0131000	1.0131000	0.01	7.66	20.00	AVRG	
Acenaphthene	0.9870000	1.0367000	1.0367000	0.01	5.04	20.01	AVRG	
Fluorene	1.0960000	1.1701000	1.1701000	0.01	6.76	20.00	AVRG	
Phenanthrene	0.9760000	0.9773200	0.9773200	0.01	0.14	20.00	AVRG	
Anthracene	0.9790000	1.0237000	1.0237000	0.01	4.56	20.00	AVRG	
Fluoranthene	0.9360000	0.9594500	0.9594500	0.01	2.50	20.01	AVRG	
Pyrene	1.3880000	1.3741000	1.3741000	0.01	-1.00	20.00	AVRG	
Benzo(a)anthracene	0.9520000	0.9241600	0.9241600	0.01	-2.92	20.00	AVRG	
Chrysene	0.9700000	1.0132000	1.0132000	0.01	4.45	20.00	AVRG	
Benzo(b)fluoranthene	1.0290000	0.9717000	0.9717000	0.01	-5.57	20.00	AVRG	
Benzo(k)fluoranthene	1.1750000	1.1955000	1.1955000	0.01	1.74	20.00	AVRG	
Benzo(a)pyrene	0.8860000	0.8788000	0.8788000	0.01	-0.81	20.01	AVRG	
Indeno(1,2,3-cd)pyrene	0.5600000	0.5361600	0.5361600	0.01	-4.26	20.00	AVRG	
Dibenzo(a,h)anthracene	0.5650000	0.5572300	0.5572300	0.01	-1.38	20.00	AVRG	
Benzo(g,h,i)perylene	0.7260000	0.7260000	0.7260000	0.01	0.00	20.00	AVRG	
2-Methylnaphthalene-D10	1.0250000	1.0928000	1.0928000	0.01	6.61	20.00	AVRG	
Fluorene-D10	1.2372000	1.0000000	1.3036000	0.01	23.72	20.00	LINR	<-
Pyrene-D10	0.9080000	0.9564500	0.9564500	0.01	5.34	20.00	AVRG	

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD766 DFTPP Injection Date: 05/04/11

Instrument ID: GCMS-G DFTPP Injection Time: 0614

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.4 (0.9)1
69	Less than 100.0% of mass 198	44.6
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	57.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.4
365	1.0 - 100.0% of mass 198	3.6
441	0.0 - 100.0% of mass 443	11.7 (78.4)2
442	40.0 - 100.0% of mass 198	75.7
443	17.0 - 23.0% of mass 442	14.9 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0504	G1104	05/04/11	0632
02	OU4-RB-042011-01	SE2074-32	G1105	05/04/11	0715
03	OU4-SB-042011-01	SE2074-33	G1106	05/04/11	0758
04	OU4-SD-M01-111B	SE2074-7	G1107	05/04/11	0841
05	OU4-SD-M01-211B	SE2074-8	G1108	05/04/11	0924
06	OU4-SD-M01-311B	SE2074-9	G1109	05/04/11	1008
07	OU4-FD-041911-01	SE2074-10	G1110	05/04/11	1051
08	OU4-SD-M09-211B	SE2074-11	G1111	05/04/11	1134
09	OU4-SD-M09-311B	SE2074-12	G1112	05/04/11	1217
10	OU4-SD-M08-211B	SE2074-13	G1113	05/04/11	1300
11	OU4-SD-M07-211B	SE2074-14	G1114	05/04/11	1343
12	OU4-SD-M07-311B	SE2074-15	G1115	05/04/11	1426
13	OU4-SD-M12-211B	SE2074-20	G1117	05/04/11	1552
14	OU4-SD-M05-311B	SE2074-24	G1120	05/04/11	1801
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FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/04/11 Time: 0632

Lab File ID: G1104 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Naphthalene	0.8850000	0.9079200	0.9079200	0.01	2.59	20.00	AVRG	
Dibenzothiophene	0.8940000	0.9118300	0.9118300	0.01	1.99	20.00	AVRG	
1,1'-Biphenyl	1.5120000	1.4152000	1.4152000	0.01	-6.40	20.00	AVRG	
Acenaphthylene	1.5910000	1.6178000	1.6178000	0.01	1.68	20.00	AVRG	
Perylene	0.9410000	0.9232400	0.9232400	0.01	-1.89	20.00	AVRG	
Acenaphthene	0.9870000	1.0022000	1.0022000	0.01	1.54	20.01	AVRG	
Fluorene	1.0960000	1.1627000	1.1627000	0.01	6.08	20.00	AVRG	
Phenanthrene	0.9760000	0.9505700	0.9505700	0.01	-2.60	20.00	AVRG	
Anthracene	0.9790000	0.9521500	0.9521500	0.01	-2.74	20.00	AVRG	
Fluoranthene	0.9360000	0.9626200	0.9626200	0.01	2.84	20.01	AVRG	
Pyrene	1.3880000	1.3419000	1.3419000	0.01	-3.32	20.00	AVRG	
Benzo(a)anthracene	0.9520000	0.9619300	0.9619300	0.01	1.04	20.00	AVRG	
Chrysene	0.9700000	1.0054000	1.0054000	0.01	3.65	20.00	AVRG	
Benzo(b)fluoranthene	1.0290000	0.9073000	0.9073000	0.01	-11.83	20.00	AVRG	
Benzo(k)fluoranthene	1.1750000	1.1284000	1.1284000	0.01	-3.97	20.00	AVRG	
Benzo(a)pyrene	0.8860000	0.8370600	0.8370600	0.01	-5.52	20.01	AVRG	
Indeno(1,2,3-cd)pyrene	0.5600000	0.4974300	0.4974300	0.01	-11.17	20.00	AVRG	
Dibenzo(a,h)anthracene	0.5650000	0.5426700	0.5426700	0.01	-3.95	20.00	AVRG	
Benzo(g,h,i)perylene	0.7260000	0.6520100	0.6520100	0.01	-10.19	20.00	AVRG	
2-Methylnaphthalene-D10	1.0250000	0.9692700	0.9692700	0.01	-5.44	20.00	AVRG	
Fluorene-D10	1.2077000	1.0000000	1.2767000	0.01	20.77	20.00	LINR	<-
Pyrene-D10	0.9080000	0.9389600	0.9389600	0.01	3.41	20.00	AVRG	

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD767 DFTPP Injection Date: 05/05/11

Instrument ID: GCMS-G DFTPP Injection Time: 0840

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.7 (1.7)1
69	Less than 100.0% of mass 198	44.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	59.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	24.3
365	1.0 - 100.0% of mass 198	3.9
441	0.0 - 100.0% of mass 443	11.6 (79.2)2
442	40.0 - 100.0% of mass 198	77.0
443	17.0 - 23.0% of mass 442	14.6 (19.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0505	G1121	05/05/11	0858
02	OU4-FD-041911-02	SE2074-25	G1126	05/05/11	1236
03	OU4-SD-M07-111B	SE2074-26	G1127	05/05/11	1319
04	OU4-SD-M08-311B	SE2074-27	G1128	05/05/11	1401
05	OU4-SD-FD-041911-03	SE2074-28	G1129	05/05/11	1444
06	OU4-SD-M09-111B	SE2074-30	G1130	05/05/11	1527
07	OU4-SD-M12-111B	SE2074-31	G1131	05/05/11	1610
08	OU4-SD-M12-311B	SE2074-19DL	G1132	05/05/11	1653
09	OU4-SD-M05-111B	SE2074-22DL	G1133	05/05/11	1736
10	OU4-SD-M05-411B	SE2074-23DL	G1134	05/05/11	1819
11	OU4-SD-M03-211B	SE2074-3DL	G1135	05/05/11	1902
12	OU4-SD-M03-111B	SE2074-4DL	G1136	05/05/11	1945
13	OU4-SD-M04-111B	SE2074-5DL	G1137	05/05/11	2028
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/05/11 Time: 0858

Lab File ID: G1121 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.8850000	0.8951800	0.8951800	0.01	1.15	20.00	AVRG
Dibenzothiophene	0.8940000	0.9114200	0.9114200	0.01	1.95	20.00	AVRG
1,1'-Biphenyl	1.5120000	1.3589000	1.3589000	0.01	-10.13	20.00	AVRG
Acenaphthylene	1.5910000	1.6061000	1.6061000	0.01	0.95	20.00	AVRG
Perylene	0.9410000	0.9598900	0.9598900	0.01	2.01	20.00	AVRG
Acenaphthene	0.9870000	0.9977600	0.9977600	0.01	1.09	20.01	AVRG
Fluorene	1.0960000	1.1672000	1.1672000	0.01	6.50	20.00	AVRG
Phenanthrene	0.9760000	0.9290700	0.9290700	0.01	-4.81	20.00	AVRG
Anthracene	0.9790000	0.9901200	0.9901200	0.01	1.14	20.00	AVRG
Fluoranthene	0.9360000	0.9372600	0.9372600	0.01	0.13	20.01	AVRG
Pyrene	1.3880000	1.3486000	1.3486000	0.01	-2.84	20.00	AVRG
Benzo(a)anthracene	0.9520000	0.9323800	0.9323800	0.01	-2.06	20.00	AVRG
Chrysene	0.9700000	0.9832000	0.9832000	0.01	1.36	20.00	AVRG
Benzo(b)fluoranthene	1.0290000	0.9302000	0.9302000	0.01	-9.60	20.00	AVRG
Benzo(k)fluoranthene	1.1750000	1.1920000	1.1920000	0.01	1.45	20.00	AVRG
Benzo(a)pyrene	0.8860000	0.8429500	0.8429500	0.01	-4.86	20.01	AVRG
Indeno(1,2,3-cd)pyrene	0.5600000	0.4555800	0.4555800	0.01	-18.65	20.00	AVRG
Dibenzo(a,h)anthracene	0.5650000	0.5428700	0.5428700	0.01	-3.92	20.00	AVRG
Benzo(g,h,i)perylene	0.7260000	0.6451700	0.6451700	0.01	-11.13	20.00	AVRG
2-Methylnaphthalene-D10	1.0250000	0.9608100	0.9608100	0.01	-6.26	20.00	AVRG
Fluorene-D10	1.1695000	1.0000000	1.2420000	0.01	16.95	20.00	LINR
Pyrene-D10	0.9080000	0.9526500	0.9526500	0.01	4.92	20.00	AVRG

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD768 DFTPP Injection Date: 05/06/11

Instrument ID: GCMS-G DFTPP Injection Time: 0749

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.9 (1.9)1
69	Less than 100.0% of mass 198	46.3
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	59.0
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	25.0
365	1.0 - 100.0% of mass 198	4.6
441	0.0 - 100.0% of mass 443	12.2 (76.6)2
442	40.0 - 100.0% of mass 198	82.0
443	17.0 - 23.0% of mass 442	15.9 (19.4)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0505	G1138	05/06/11	0807
02	OU4-SD-M12-311B	SE2074-19	G1139	05/06/11	0905
03	OU4-SD-M05-111B	SE2074-22	G1140	05/06/11	0947
04	OU4-SD-M05-411B	SE2074-23	G1141	05/06/11	1030
05	OU4-SD-M01-111B	SE2074-7DL	G1142	05/06/11	1113
06	OU4-SD-M01-211B	SE2074-8DL	G1143	05/06/11	1156
07	OU4-SD-M01-311B	SE2074-9DL	G1144	05/06/11	1239
08	OU4-FD-041911-01	SE2074-10DL	G1145	05/06/11	1322
09	OU4-SD-M09-211B	SE2074-11DL	G1146	05/06/11	1405
10	OU4-SD-M09-311B	SE2074-12DL	G1147	05/06/11	1448
11	OU4-SD-M08-211B	SE2074-13DL	G1148	05/06/11	1531
12	OU4-SD-M12-111B	SE2074-31DL	G1149	05/06/11	1614
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/06/11 Time: 0807

Lab File ID: G1138 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.8850000	0.8728200	0.8728200	0.01	-1.38	20.00	AVRG
Dibenzothiophene	0.8940000	0.8921600	0.8921600	0.01	-0.20	20.00	AVRG
1,1'-Biphenyl	1.5120000	1.3540000	1.3540000	0.01	-10.45	20.00	AVRG
Acenaphthylene	1.5910000	1.5449000	1.5449000	0.01	-2.90	20.00	AVRG
Perylene	0.9410000	0.9280300	0.9280300	0.01	-1.38	20.00	AVRG
Acenaphthene	0.9870000	0.9563600	0.9563600	0.01	-3.10	20.01	AVRG
Fluorene	1.0960000	1.1230000	1.1230000	0.01	2.46	20.00	AVRG
Phenanthrene	0.9760000	0.9314800	0.9314800	0.01	-4.56	20.00	AVRG
Anthracene	0.9790000	0.9918500	0.9918500	0.01	1.31	20.00	AVRG
Fluoranthene	0.9360000	0.9246400	0.9246400	0.01	-1.21	20.01	AVRG
Pyrene	1.3880000	1.4534000	1.4534000	0.01	4.71	20.00	AVRG
Benzo(a)anthracene	0.9520000	0.9283500	0.9283500	0.01	-2.48	20.00	AVRG
Chrysene	0.9700000	0.9628400	0.9628400	0.01	-0.74	20.00	AVRG
Benzo(b)fluoranthene	1.0290000	0.8828400	0.8828400	0.01	-14.20	20.00	AVRG
Benzo(k)fluoranthene	1.1750000	1.2335000	1.2335000	0.01	4.98	20.00	AVRG
Benzo(a)pyrene	0.8860000	0.8319500	0.8319500	0.01	-6.10	20.01	AVRG
Indeno(1,2,3-cd)pyrene	0.5600000	0.4191400	0.4191400	0.01	-25.15	20.00	AVRG <-
Dibenzo(a,h)anthracene	0.5650000	0.5725000	0.5725000	0.01	1.33	20.00	AVRG
Benzo(g,h,i)perylene	0.7260000	0.6461000	0.6461000	0.01	-11.01	20.00	AVRG
2-Methylnaphthalene-D10	1.0250000	0.9298400	0.9298400	0.01	-9.28	20.00	AVRG
Fluorene-D10	1.1260000	1.0000000	1.2024000	0.01	12.60	20.00	LINR
Pyrene-D10	0.9080000	1.0140000	1.0140000	0.01	11.67	20.00	AVRG

FORM VII PEST

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: GD769 DFTPP Injection Date: 05/09/11

Instrument ID: GCMS-G DFTPP Injection Time: 1430

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.1
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Less than 100.0% of mass 198	44.6
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	40.0 - 60.0% of mass 198	56.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 30.0% of mass 198	25.8
365	1.0 - 100.0% of mass 198	4.7
441	0.0 - 100.0% of mass 443	13.1 (79.5)2
442	40.0 - 100.0% of mass 198	86.0
443	17.0 - 23.0% of mass 442	16.4 (19.1)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00G0509	G1152	05/09/11	1448
02	OU4-SD-M12-211B	SE2074-20DL	G1153	05/09/11	1531
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
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15					
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18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/09/11 Time: 1448

Lab File ID: G1152 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Naphthalene	0.8850000	0.8911200	0.8911200	0.01	0.69	20.00	AVRG	
Dibenzothiophene	0.8940000	0.9061000	0.9061000	0.01	1.35	20.00	AVRG	
1,1'-Biphenyl	1.5120000	1.3865000	1.3865000	0.01	-8.30	20.00	AVRG	
Acenaphthylene	1.5910000	1.6248000	1.6248000	0.01	2.12	20.00	AVRG	
Perylene	0.9410000	0.9084700	0.9084700	0.01	-3.46	20.00	AVRG	
Acenaphthene	0.9870000	1.0100000	1.0100000	0.01	2.33	20.01	AVRG	
Fluorene	1.0960000	1.1709000	1.1709000	0.01	6.83	20.00	AVRG	
Phenanthrene	0.9760000	0.9333000	0.9333000	0.01	-4.38	20.00	AVRG	
Anthracene	0.9790000	0.9815600	0.9815600	0.01	0.26	20.00	AVRG	
Fluoranthene	0.9360000	0.9038400	0.9038400	0.01	-3.44	20.01	AVRG	
Pyrene	1.3880000	1.3880000	1.3880000	0.01	0.00	20.00	AVRG	
Benzo(a)anthracene	0.9520000	0.9055700	0.9055700	0.01	-4.88	20.00	AVRG	
Chrysene	0.9700000	1.0168000	1.0168000	0.01	4.82	20.00	AVRG	
Benzo(b)fluoranthene	1.0290000	0.8160900	0.8160900	0.01	-20.69	20.00	AVRG	<-
Benzo(k)fluoranthene	1.1750000	1.2322000	1.2322000	0.01	4.87	20.00	AVRG	
Benzo(a)pyrene	0.8860000	0.7966500	0.7966500	0.01	-10.08	20.01	AVRG	
Indeno(1,2,3-cd)pyrene	0.5600000	0.3714700	0.3714700	0.01	-33.67	20.00	AVRG	<-
Dibenzo(a,h)anthracene	0.5650000	0.5183100	0.5183100	0.01	-8.26	20.00	AVRG	
Benzo(g,h,i)perylene	0.7260000	0.6113000	0.6113000	0.01	-15.80	20.00	AVRG	
2-Methylnaphthalene-D10	1.0250000	0.9553800	0.9553800	0.01	-6.79	20.00	AVRG	
Fluorene-D10	1.1610000	1.0000000	1.2343000	0.01	16.10	20.00	LINR	
Pyrene-D10	0.9080000	0.9676200	0.9676200	0.01	6.57	20.00	AVRG	

FORM VII PEST

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90713-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: G1072 Lab Sample ID: WG90713-1

Instrument ID: GCMS-G Date Extracted: 04/26/11

Matrix: (soil/water) SOIL Date Analyzed: 05/02/11

Level:(low/med) LOW Time Analyzed: 1556

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG90713-LCS	WG90713-2,WE29	G1073	05/02/11	1638
02	WG90713-LCSD	WG90713-3,WE29	G1074	05/02/11	1720
03	OU4-SD-M03-311B	SE2074-1	G1098	05/03/11	1639
04	OU4-SD-M04-211B	SE2074-2	G1099	05/03/11	1722
05	OU4-SD-M03-211B	SE2074-3	G1100	05/03/11	1805
06	OU4-SD-M03-111B	SE2074-4	G1101	05/03/11	1848
07	OU4-SD-M04-111B	SE2074-5	G1102	05/03/11	1931
08	OU4-SD-M04-311B	SE2074-6	G1103	05/03/11	2014
09	OU4-SD-M01-111B	SE2074-7	G1107	05/04/11	0841
10	OU4-SD-M01-211B	SE2074-8	G1108	05/04/11	0924
11	OU4-SD-M01-311B	SE2074-9	G1109	05/04/11	1008
12	OU4-FD-041911-01	SE2074-10	G1110	05/04/11	1051
13	OU4-SD-M09-211B	SE2074-11	G1111	05/04/11	1134
14	OU4-SD-M09-311B	SE2074-12	G1112	05/04/11	1217
15	OU4-SD-M08-211B	SE2074-13	G1113	05/04/11	1300
16	OU4-SD-M07-211B	SE2074-14	G1114	05/04/11	1343
17	OU4-SD-M07-311B	SE2074-15	G1115	05/04/11	1426
18	OU4-SD-M03-211B	SE2074-3DL	G1135	05/05/11	1902
19	OU4-SD-M03-111B	SE2074-4DL	G1136	05/05/11	1945
20	OU4-SD-M04-111B	SE2074-5DL	G1137	05/05/11	2028
21	OU4-SD-M01-111B	SE2074-7DL	G1142	05/06/11	1113
22	OU4-SD-M01-211B	SE2074-8DL	G1143	05/06/11	1156
23	OU4-SD-M01-311B	SE2074-9DL	G1144	05/06/11	1239
24	OU4-FD-041911-01	SE2074-10DL	G1145	05/06/11	1322
25	OU4-SD-M09-211B	SE2074-11DL	G1146	05/06/11	1405
26	OU4-SD-M09-311B	SE2074-12DL	G1147	05/06/11	1448
27	OU4-SD-M08-211B	SE2074-13DL	G1148	05/06/11	1531
28					
29					
30					

COMMENTS:

FORM IVSV

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90713-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 26-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 02-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: NA
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	10.	ug/Kgdrywt	1	20	20.	2.6	10.
Acenaphthylene	U	10.	ug/Kgdrywt	1	20	20.	1.2	10.
Acenaphthene	U	10.	ug/Kgdrywt	1	20	20.	1.5	10.
Fluorene	U	10.	ug/Kgdrywt	1	20	20.	3.2	10.
Phenanthrene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.2	10.
Fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Pyrene	U	10.	ug/Kgdrywt	1	20	20.	2.1	10.
Benzo (a) anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.9	10.
Chrysene	U	10.	ug/Kgdrywt	1	20	20.	1.7	10.
Benzo (b) Fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	2.4	10.
Benzo(k)fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	3.1	10.
Benzo(a)pyrene	U	10.	ug/Kgdrywt	1	20	20.	3.3	10.
Indeno (1,2,3-cd) pyrene	U	10.	ug/Kgdrywt	1	20	20.	1.9	10.
Dibenzo (a,h) anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Benzo(g,h,i)perylene	U	10.	ug/Kgdrywt	1	20	20.	2.0	10.
1,1'-Biphenyl	U	10.	ug/Kgdrywt	1	20	20.	1.1	10.
Perylene	U	10.	ug/Kgdrywt	1	20	20.	0.82	10.
Dibenzothiophene	U	10.	ug/Kgdrywt	1	20	20.	0.47	10.
2-Methylnaphthalene-D10		55.1	%					
Fluorene-D10		53.5	%					
Pyrene-D10		94.5	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90713-2
LCSD ID: WG90713-3
Project:
SDG: WE29-1
Report Date: 09-MAY-11

Received Date: 26-APR-11
Extract Date: 26-APR-11
Extracted By: WS
Extraction Method: SW846 3540
Lab Prep Batch: WG90713

Analysis Date: 02-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Naphthalene	66.7	22.9	34.3*	39.0	58.5	ug/Kgdrywt	52*	50	40-100
Acenaphthylene	66.7	27.6	41.4	38.0	57.0	ug/Kgdrywt	32	50	40-100
Acenaphthene	66.7	29.4	44.1	39.5	59.2	ug/Kgdrywt	29	50	40-100
Fluorene	66.7	34.0	51.0	43.8	65.7	ug/Kgdrywt	25	50	40-100
Phenanthrene	66.7	38.8	58.2	47.8	71.7	ug/Kgdrywt	21	50	40-100
Anthracene	66.7	41.6	62.4	51.3	76.9	ug/Kgdrywt	21	50	40-100
Fluoranthene	66.7	44.6	66.9	48.9	73.3	ug/Kgdrywt	9	50	40-100
Pyrene	66.7	58.0	87.0	59.9	89.8	ug/Kgdrywt	3	50	40-100
Benzo (a) anthracene	66.7	44.7	67.0	45.0	67.5	ug/Kgdrywt	1	50	40-100
Chrysene	66.7	53.0	79.5	54.6	81.8	ug/Kgdrywt	3	50	40-100
Benzo (b) Fluoranthene	66.7	41.1	61.6	42.5	63.7	ug/Kgdrywt	3	50	40-100
Benzo(k)fluoranthene	66.7	55.5	83.2	56.5	84.7	ug/Kgdrywt	2	50	40-100
Benzo(a)pyrene	66.7	47.5	71.2	49.2	73.8	ug/Kgdrywt	4	50	40-100
Indeno (1,2,3-cd) pyrene	66.7	39.8	59.7	40.2	60.3	ug/Kgdrywt	1	50	40-100
Dibenzo (a,h) anthracene	66.7	50.6	75.9	55.5	83.2	ug/Kgdrywt	9	50	40-100
Benzo(g,h,i)perylene	66.7	44.7	67.0	48.6	72.9	ug/Kgdrywt	8	50	40-100
1,1'-Biphenyl	66.7	25.5	38.2	36.5	54.7	ug/Kgdrywt	35	50	30-150
Perylene	66.7	40.1	60.1	42.1	63.1	ug/Kgdrywt	5	50	30-150
Dibenzothiophene	66.7	35.6	53.4	45.0	67.5	ug/Kgdrywt	23	50	30-150
2-Methylnaphthalene-D10			32.3		49.5				19-94
Fluorene-D10			48.7		62.3				20-96
Pyrene-D10			90.5		93.2				31-128

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FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90714-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: G1075 Lab Sample ID: WG90714-1

Instrument ID: GCMS-G Date Extracted: 04/26/11

Matrix: (soil/water) SOIL Date Analyzed: 05/02/11

Level:(low/med) LOW Time Analyzed: 1803

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG90714-LCS	WG90714-2	G1076	05/02/11	1846
02	WG90714-LCSD	WG90714-3	G1077	05/02/11	1929
03	OU4-SD-M05-211B	SE2074-21	G1092	05/03/11	1223
04	OU4-SD-M05-211BMS	WG90714-6	G1093	05/03/11	1306
05	OU4-SD-M05-211BMSD	WG90714-7	G1094	05/03/11	1349
06	OU4-SD-M08-111B	SE2074-29	G1095	05/03/11	1431
07	OU4-SD-M08-111BMS	WG90714-8	G1096	05/03/11	1514
08	OU4-SD-M08-111BMSD	WG90714-9	G1097	05/03/11	1556
09	OU4-SD-M12-211B	SE2074-20	G1117	05/04/11	1552
10	OU4-SD-M05-311B	SE2074-24	G1120	05/04/11	1801
11	OU4-FD-041911-02	SE2074-25	G1126	05/05/11	1236
12	OU4-SD-M07-111B	SE2074-26	G1127	05/05/11	1319
13	OU4-SD-M08-311B	SE2074-27	G1128	05/05/11	1401
14	OU4-SD-FD-041911-03	SE2074-28	G1129	05/05/11	1444
15	OU4-SD-M09-111B	SE2074-30	G1130	05/05/11	1527
16	OU4-SD-M12-111B	SE2074-31	G1131	05/05/11	1610
17	OU4-SD-M12-311B	SE2074-19DL	G1132	05/05/11	1653
18	OU4-SD-M05-111B	SE2074-22DL	G1133	05/05/11	1736
19	OU4-SD-M05-411B	SE2074-23DL	G1134	05/05/11	1819
20	OU4-SD-M12-311B	SE2074-19	G1139	05/06/11	0905
21	OU4-SD-M05-111B	SE2074-22	G1140	05/06/11	0947
22	OU4-SD-M05-411B	SE2074-23	G1141	05/06/11	1030
23	OU4-SD-M12-111B	SE2074-31DL	G1149	05/06/11	1614
24	OU4-SD-M12-211B	SE2074-20DL	G1153	05/09/11	1531
25					
26					
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COMMENTS:

FORM IVSV

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90714-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 26-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 02-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: NA
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	10.	ug/Kgdrywt	1	20	20.	2.6	10.
Acenaphthylene	U	10.	ug/Kgdrywt	1	20	20.	1.2	10.
Acenaphthene	U	10.	ug/Kgdrywt	1	20	20.	1.5	10.
Fluorene	U	10.	ug/Kgdrywt	1	20	20.	3.2	10.
Phenanthrene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.2	10.
Fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Pyrene	U	10.	ug/Kgdrywt	1	20	20.	2.1	10.
Benzo (a) anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.9	10.
Chrysene	U	10.	ug/Kgdrywt	1	20	20.	1.7	10.
Benzo (b) Fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	2.4	10.
Benzo(k)fluoranthene	U	10.	ug/Kgdrywt	1	20	20.	3.1	10.
Benzo(a)pyrene	U	10.	ug/Kgdrywt	1	20	20.	3.3	10.
Indeno (1,2,3-cd) pyrene	U	10.	ug/Kgdrywt	1	20	20.	1.9	10.
Dibenzo (a,h) anthracene	U	10.	ug/Kgdrywt	1	20	20.	1.8	10.
Benzo(g,h,i)perylene	U	10.	ug/Kgdrywt	1	20	20.	2.0	10.
1,1'-Biphenyl	U	10.	ug/Kgdrywt	1	20	20.	1.1	10.
Perylene	U	10.	ug/Kgdrywt	1	20	20.	0.82	10.
Dibenzothiophene	U	10.	ug/Kgdrywt	1	20	20.	0.47	10.
2-Methylnaphthalene-D10		50.1	%					
Fluorene-D10		45.7	%					
Pyrene-D10		92.0	%					

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90714-2
LCSD ID: WG90714-3
Project:
SDG: WE29-1
Report Date: 09-MAY-11

Received Date: 26-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714

Analysis Date: 02-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Naphthalene	66.7	40.5	60.7	56.0	84.0	ug/Kgdrywt	32	50	40-100
Acenaphthylene	66.7	38.1	57.1	52.9	79.3	ug/Kgdrywt	32	50	40-100
Acenaphthene	66.7	40.1	60.1	55.5	83.2	ug/Kgdrywt	32	50	40-100
Fluorene	66.7	43.3	64.9	62.0	93.0	ug/Kgdrywt	36	50	40-100
Phenanthrene	66.7	46.2	69.3	62.4	93.6	ug/Kgdrywt	30	50	40-100
Anthracene	66.7	46.8	70.2	62.5	93.7	ug/Kgdrywt	29	50	40-100
Fluoranthene	66.7	47.4	71.1	63.4	95.0	ug/Kgdrywt	29	50	40-100
Pyrene	66.7	63.3	94.9	78.2	117.*	ug/Kgdrywt	21	50	40-100
Benzo (a) anthracene	66.7	46.5	69.7	60.7	91.0	ug/Kgdrywt	26	50	40-100
Chrysene	66.7	54.6	81.8	69.3	104.*	ug/Kgdrywt	24	50	40-100
Benzo (b) Fluoranthene	66.7	42.5	63.7	58.3	87.4	ug/Kgdrywt	31	50	40-100
Benzo(k)fluoranthene	66.7	56.6	84.8	72.4	108.*	ug/Kgdrywt	24	50	40-100
Benzo(a)pyrene	66.7	48.0	72.0	62.9	94.3	ug/Kgdrywt	27	50	40-100
Indeno (1,2,3-cd) pyrene	66.7	39.9	59.8	46.7	70.0	ug/Kgdrywt	16	50	40-100
Dibenzo (a,h) anthracene	66.7	55.2	82.8	62.8	94.2	ug/Kgdrywt	13	50	40-100
Benzo(g,h,i)perylene	66.7	48.0	72.0	55.3	82.9	ug/Kgdrywt	14	50	40-100
1,1'-Biphenyl	66.7	37.9	56.8	52.5	78.7	ug/Kgdrywt	32	50	30-150
Perylene	66.7	40.3	60.4	21.4	32.1	ug/Kgdrywt	61*	50	30-150
Dibenzothiophene	66.7	42.1	63.1	24.5	36.7	ug/Kgdrywt	53*	50	30-150
2-Methylnaphthalene-D10			52.6		34.0				19-94
Fluorene-D10			59.8		40.0				20-96
Pyrene-D10			97.0		55.0				31-128

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FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90525-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID: G1004 Lab Sample ID: WG90525-1

Instrument ID: GCMS-G Date Extracted: 04/22/11

Matrix: (soil/water) WATER Date Analyzed: 04/27/11

Level:(low/med) LOW Time Analyzed: 1530

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG90525-LCS	WG90525-2	G1005	04/27/11	1612
02	WG90525-LCSD	WG90525-3	G1006	04/27/11	1655
03	OU4-RB-042011-01	SE2074-32	G1105	05/04/11	0715
04	OU4-SB-042011-01	SE2074-33	G1106	05/04/11	0758
05					
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COMMENTS:

FORM IVSV

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90525-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 22-APR-11
Extract Date: 22-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90525

Analysis Date: 27-APR-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: AQ
% Solids: NA
Report Date: 09-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Naphthalene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
Acenaphthylene	U	0.10	ug/L	1	.2	0.20	0.054	0.10
Acenaphthene	U	0.10	ug/L	1	.2	0.20	0.064	0.10
Fluorene	U	0.10	ug/L	1	.2	0.20	0.061	0.10
Phenanthrene	U	0.10	ug/L	1	.2	0.20	0.051	0.10
Anthracene	U	0.10	ug/L	1	.2	0.20	0.044	0.10
Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.073	0.10
Pyrene	U	0.10	ug/L	1	.2	0.20	0.059	0.10
Benzo (a) anthracene	U	0.10	ug/L	1	.2	0.20	0.046	0.10
Chrysene	U	0.10	ug/L	1	.2	0.20	0.036	0.10
Benzo (b) Fluoranthene	U	0.10	ug/L	1	.2	0.20	0.089	0.10
Benzo(k)fluoranthene	U	0.10	ug/L	1	.2	0.20	0.049	0.10
Benzo(a)pyrene	U	0.10	ug/L	1	.2	0.20	0.066	0.10
Indeno (1,2,3-cd) pyrene	U	0.10	ug/L	1	.2	0.20	0.052	0.10
Dibenzo (a,h) anthracene	U	0.10	ug/L	1	.2	0.20	0.070	0.10
Benzo(g,h,i)perylene	U	0.10	ug/L	1	.2	0.20	0.065	0.10
1,1'-Biphenyl	U	0.10	ug/L	1	.2	0.20	0.065	0.10
Perylene	U	0.10	ug/L	1	.2	0.20	0.072	0.10
Dibenzothiophene	U	0.10	ug/L	1	.2	0.20	0.038	0.10
2-Methylnaphthalene-D10		71.2	%					
Fluorene-D10		58.7	%					
pyrene-d10		102.	%					

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90525-2
LCSD ID: WG90525-3
Project:
SDG: WE29-1
Report Date: 09-MAY-11

Received Date: 22-APR-11
Extract Date: 22-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90525

Analysis Date: 27-APR-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Naphthalene	2.00	1.43	71.5	0.732	36.6*	ug/L	64*	20	46-84
Acenaphthylene	2.00	1.39	69.5	0.667	33.4*	ug/L	70*	20	55-105
Acenaphthene	2.00	1.38	69.0	0.702	35.1*	ug/L	65*	20	53-90
Fluorene	2.00	1.41	70.5	0.719	36.0*	ug/L	65*	20	53-95
Phenanthrene	2.00	1.54	77.0	0.920	46.0*	ug/L	50*	20	73-100
Anthracene	2.00	1.72	86.0	1.05	52.5*	ug/L	48*	20	70-95
Fluoranthene	2.00	1.58	79.0*	0.957	47.8*	ug/L	49*	20	81-109
Pyrene	2.00	1.76	88.0	1.21	60.5*	ug/L	37*	20	71-104
Benzo (a) anthracene	2.00	1.54	77.0	0.937	46.8*	ug/L	49*	20	70-110
Chrysene	2.00	1.65	82.5	1.09	54.5*	ug/L	41*	20	70-95
Benzo (b) Fluoranthene	2.00	1.52	76.0	0.879	44.0*	ug/L	53*	20	67-102
Benzo(k)fluoranthene	2.00	1.50	75.0	0.957	47.8*	ug/L	44*	20	68-103
Benzo(a)pyrene	2.00	1.60	80.0	0.998	49.9*	ug/L	46*	20	63-98
Indeno (1,2,3-cd) pyrene	2.00	1.62	81.0	1.11	55.5*	ug/L	37*	20	61-112
Dibenzo (a,h) anthracene	2.00	1.88	94.0	1.34	67.0	ug/L	34*	20	66-108
Benzo(g,h,i)perylene	2.00	1.78	89.0	1.27	63.5	ug/L	33*	20	62-106
1,1'-Biphenyl	2.00	2.00	100.*	0.792	39.6*	ug/L	86*	20	56-96
Perylene	2.00	1.40	70.0	0.897	44.8	ug/L	44*	20	30-150
Dibenzothiophene	2.00	1.38	69.0	0.843	42.2	ug/L	48*	20	30-150
2-Methylnaphthalene-D10			62.9		28.6*				43-92
Fluorene-D10			63.7		31.8				29-101
pyrene-d10			87.7		60.5				53-166

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ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH melac
Cert No E87604

MS/MSD Recovery Report

MS ID: WG90714-6
MSD ID: WG90714-7
Sample ID: SE2074-21
Client ID: OU4-SD-M05-211B
Project:
SDG: WE29-1

Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714
Report Date: 25-MAY-11

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 40.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Naphthalene	141.	145.	ug/Kgdrywt	J6.8	65.	69.	41.1	43.2	7	50	40-100
Acenaphthylene	141.	145.	ug/Kgdrywt	J8.6	76.	82.	47.9	50.5	7	50	40-100
Acenaphthene	141.	145.	ug/Kgdrywt	J12.	80.	89.	48.2	53.3	11	50	40-100
Fluorene	141.	145.	ug/Kgdrywt	J18.	92.	100	52.8	58.2	10	50	40-100
Phenanthrene	141.	145.	ug/Kgdrywt	210	230	300	13.5*	60.1	26	50	40-100
Anthracene	141.	145.	ug/Kgdrywt	J40.	110	120	50.8	57.7	10	50	40-100
Fluoranthene	141.	145.	ug/Kgdrywt	470	460	580	0*	74.6	23	50	40-100
Pyrene	141.	145.	ug/Kgdrywt	510	520	560	4.97*	32.5*	7	50	40-100
Benzo (a) anthracene	141.	145.	ug/Kgdrywt	200	240	300	28.4*	66.3	20	50	40-100
Chrysene	141.	145.	ug/Kgdrywt	240	300	340	39.8*	63.5	11	50	40-100
Benzo (b) Fluoranthene	141.	145.	ug/Kgdrywt	340	360	450	15.6*	79.4	23	50	40-100
Benzo(k)fluoranthene	141.	145.	ug/Kgdrywt	120	200	200	54.0	53.2	0	50	40-100
Benzo(a)pyrene	141.	145.	ug/Kgdrywt	230	290	330	43.4	69.1	12	50	40-100
Indeno (1,2,3-cd) pyrene	141.	145.	ug/Kgdrywt	170	220	250	37.7*	56.6	12	50	40-100
Dibenzo (a,h) anthracene	141.	145.	ug/Kgdrywt	J42.	110	120	48.0	57.0	13	50	40-100
Benzo(g,h,i)perylene	141.	145.	ug/Kgdrywt	130	170	200	27.7*	43.5	13	50	40-100
1,1'-Biphenyl	141.	145.	ug/Kgdrywt	U22.	67.	73.	47.9	50.3	8	50	30-150
Perylene	141.	145.	ug/Kgdrywt	50.	120	130	50.4	55.9	8	50	30-150
Dibenzothiophene	141.	145.	ug/Kgdrywt	U22.	93.	98.	65.8	67.5	5	50	30-150
2-Methylnaphthalene-D10							48.7	45.0			19-94
Fluorene-D10							54.4	55.3			20-96
Pyrene-D10							80.8	75.9			31-128

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

MS/MSD Recovery Report

MS ID: WG90714-8
MSD ID: WG90714-9
Sample ID: SE2074-29
Client ID: OU4-SD-M08-111B
Project:
SDG: WE29-1

Received Date: 20-APR-11
Extract Date: 26-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90714
Report Date: 09-MAY-11

Analysis Date: 03-MAY-11
Analyst: WAS
Analysis Method: SW846 M8270C
Matrix: SL
% Solids: 68.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Naphthalene	91.9	98.3	ug/Kgdrywt	U14.	72.	47.	78.2	47.8	42	50	40-100
Acenaphthylene	91.9	98.3	ug/Kgdrywt	J2.8	55.	53.	56.9	50.8	4	50	40-100
Acenaphthene	91.9	98.3	ug/Kgdrywt	J2.9	92.	59.	96.8	57.2	43	50	40-100
Fluorene	91.9	98.3	ug/Kgdrywt	J4.7	110	70.	114.*	67.0	43	50	40-100
Phenanthrene	91.9	98.3	ug/Kgdrywt	58.	440	100	412.*	43.6	125*	50	40-100
Anthracene	91.9	98.3	ug/Kgdrywt	J13.	97.	69.	91.2	56.8	34	50	40-100
Fluoranthene	91.9	98.3	ug/Kgdrywt	150	510	170	390.*	26.4*	98*	50	40-100
Pyrene	91.9	98.3	ug/Kgdrywt	150	480	220	360.*	69.2	76*	50	40-100
Benzo (a) anthracene	91.9	98.3	ug/Kgdrywt	63.	210	110	163.*	49.5	62*	50	40-100
Chrysene	91.9	98.3	ug/Kgdrywt	81.	240	130	173.*	45.9	62*	50	40-100
Benzo (b) Fluoranthene	91.9	98.3	ug/Kgdrywt	98.	260	160	181.*	60.1	51*	50	40-100
Benzo(k)fluoranthene	91.9	98.3	ug/Kgdrywt	32.	130	94.	111.*	62.8	35	50	40-100
Benzo(a)pyrene	91.9	98.3	ug/Kgdrywt	73.	200	120	142.*	50.2	50	50	40-100
Indeno (1,2,3-cd) pyrene	91.9	98.3	ug/Kgdrywt	50.	160	100	118.*	52.3	44	50	40-100
Dibenzo (a,h) anthracene	91.9	98.3	ug/Kgdrywt	J13.	93.	68.	86.6	55.9	30	50	40-100
Benzo(g,h,i)perylene	91.9	98.3	ug/Kgdrywt	42.	120	82.	88.7	40.9	40	50	40-100
1,1'-Biphenyl	91.9	98.3	ug/Kgdrywt	U14.	55.	50.	60.2	50.6	10	50	30-150
Perylene	91.9	98.3	ug/Kgdrywt	U14.	84.	68.	91.2	69.4	20	50	30-150
Dibenzothiophene	91.9	98.3	ug/Kgdrywt	U14.	80.	63.	87.4	63.9	24	50	30-150
2-Methylnaphthalene-D10							57.1	45.9			19-94
Fluorene-D10							68.3	64.2			20-96
Pyrene-D10							95.1	91.6			31-128

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http://www.katahdinlab.com

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG90713-BLANK	WG90713-1	55	54	94						0
02	WG90713-LCS	WG90713-2,WE29-	32	49	90						0
03	WG90713-LCSD	WG90713-3,WE29-	50	62	93						0
04	WG90714-BLANK	WG90714-1	50	46	92						0
05	WG90714-LCS	WG90714-2,WE29-	53	60	97						0
06	WG90714-LCSD	WG90714-3,WE29-	34	40	55						0
07	OU4-SD-M05-211B	SE2074-21	40	42	72						0
08	OU4-SD-M05-211BMS	WG90714-6	49	54	81						0
09	OU4-SD-M05-211BMSD	WG90714-7	45	55	76						0
10	OU4-SD-M08-111B	SE2074-29	50	50	78						0
11	OU4-SD-M08-111BMS	WG90714-8	57	68	95						0
12	OU4-SD-M08-111BMSD	WG90714-9	46	64	92						0
13	OU4-SD-M03-311B	SE2074-1	54	61	86						0
14	OU4-SD-M04-211B	SE2074-2	53	57	87						0
15	OU4-SD-M03-211B	SE2074-3	58	66	106						0
16	OU4-SD-M03-111B	SE2074-4	56	64	109						0
17	OU4-SD-M04-111B	SE2074-5	57	69	108						0
18	OU4-SD-M04-311B	SE2074-6	59	64	93						0
19	OU4-SD-M01-111B	SE2074-7	55	63	108						0
20	OU4-SD-M01-211B	SE2074-8	56	71	104						0
21	OU4-SD-M01-311B	SE2074-9	58	62	117						0
22	OU4-FD-041911-01	SE2074-10	53	56	88						0
23	OU4-SD-M09-211B	SE2074-11	52	62	98						0
24	OU4-SD-M09-311B	SE2074-12	52	62	94						0
25	OU4-SD-M08-211B	SE2074-13	47	59	106						0
26	OU4-SD-M07-211B	SE2074-14	53	57	89						0
27	OU4-SD-M07-311B	SE2074-15	57	63	113						0
28	OU4-SD-M12-211B	SE2074-20	33	45	75						0

		QC LIMITS
S1	= 2-Methylnaphthalene-D1	(19- 94)
S2	= Fluorene-D10	(20- 96)
S3	= Pyrene-D10	(31-128)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	OU4-SD-M05-311B	SE2074-24	44	52	95						0
02	OU4-FD-041911-02	SE2074-25	44	47	80						0
03	OU4-SD-M07-111B	SE2074-26	45	52	107						0
04	OU4-SD-M08-311B	SE2074-27	40	51	90						0
05	OU4-SD-FD-041911-03	SE2074-28	45	48	98						0
06	OU4-SD-M09-111B	SE2074-30	30	32	62						0
07	OU4-SD-M12-111B	SE2074-31	40	48	92						0
08	OU4-SD-M12-311B	SE2074-19DL	D	D	D						0
09	OU4-SD-M05-111B	SE2074-22DL	34	0*	68						1
10	OU4-SD-M05-411B	SE2074-23DL	36	1*[illegible]	80						1
11	OU4-SD-M03-211B	SE2074-3DL	D	D	D						0
12	OU4-SD-M03-111B	SE2074-4DL	48	23	108						0
13	OU4-SD-M04-111B	SE2074-5DL	52	42	103						0
14	OU4-SD-M12-311B	SE2074-19	41	48	81						0
15	OU4-SD-M05-111B	SE2074-22	36	45	76						0
16	OU4-SD-M05-411B	SE2074-23	36	44	75						0
17	OU4-SD-M01-111B	SE2074-7DL	51	29	93						0
18	OU4-SD-M01-211B	SE2074-8DL	53	25	97						0
19	OU4-SD-M01-311B	SE2074-9DL	D	D	D						0
20	OU4-FD-041911-01	SE2074-10DL	59	30	107						0
21	OU4-SD-M09-211B	SE2074-11DL	49	38	84						0
22	OU4-SD-M09-311B	SE2074-12DL	51	50	92						0
23	OU4-SD-M08-211B	SE2074-13DL	46	47	91						0
24	OU4-SD-M12-111B	SE2074-31DL	D	D	D						0
25	OU4-SD-M12-211B	SE2074-20DL	33	0*	62						1
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-D1	(19- 94)
S2	= Fluorene-D10	(20- 96)
S3	= Pyrene-D10	(31-128)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG90525-BLANK	WG90525-1	71	59	102						0
02	WG90525-LCS	WG90525-2	63	64	88						0
03	WG90525-LCSD	WG90525-3	29*	32	60						1
04	OU4-RB-042011-01	SE2074-32	67	67	88						0
05	OU4-SB-042011-01	SE2074-33	65	65	84						0
06											
07											
08											
09											
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25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-D1	(43- 92)
S2	= Fluorene-D10	(29-101)
S3	= Pyrene-D10	(53-166)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G0937 Date Analyzed: 04/23/11

Instrument ID: GCMS-G Time Analyzed: 0924

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD		37987	8.10	140282	10.82	73095	14.89
UPPER LIMIT		75974	8.64	280564	11.36	146190	15.43
LOWER LIMIT		18994	7.56	70141	10.28	36548	14.35
CLIENT SAMPLE ID	LAB SAMPLE ID						
01	SSTD1.00G0427	35359	8.10	124056	10.81	71798	14.88
02 WG90525-BLANK	WG90525-1	37295	8.11	140256	10.82	79214	14.88
03 WG90525-LCS	WG90525-2	36583	8.13	137839	10.82	79299	14.88
04 WG90525-LCSD	WG90525-3	34907	8.11	126173	10.82	75723	14.89
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18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G0937 Date Analyzed: 04/23/11

Instrument ID: GCMS-G Time Analyzed: 0924

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD		121463	18.40	86430	24.69	47955	27.83
UPPER LIMIT		242926	18.94	172860	25.23	95910	28.37
LOWER LIMIT		60732	17.86	43215	24.15	23978	27.29
CLIENT SAMPLE ID	LAB SAMPLE ID						
01	SSTD1.00G0427	121068	18.40	64178	24.70	38434	27.84
02 WG90525-BLANK	WG90525-1	135157	18.40	74627	24.70	44121	27.85
03 WG90525-LCS	WG90525-2	140731	18.40	89560	24.70	53296	27.84
04 WG90525-LCSD	WG90525-3	122138	18.40	65833	24.70	41132	27.84
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20							

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	46761	8.08	160858	10.80	74365	14.86
UPPER LIMIT	93522	8.62	321716	11.34	148730	15.40
LOWER LIMIT	23381	7.54	80429	10.26	37183	14.32

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01		SSTD1.00G0502	42388	8.08	148788	10.79	81905	14.86
02	WG90713-BLANK	WG90713-1	41711	8.08	158328	10.79	88998	14.86
03	WG90713-LCS	WG90713-2,WE29	45016	8.09	175936	10.79	97681	14.86
04	WG90713-LCSD	WG90713-3,WE29	46522	8.09	161970	10.80	96534	14.86
05	WG90714-BLANK	WG90714-1	45162	8.08	173244	10.80	93422	14.86
06	WG90714-LCS	WG90714-2	45302	8.09	168079	10.80	94133	14.86
07	WG90714-LCSD	WG90714-3	49534	8.09	183677	10.80	102994	14.86
08		SSTD1.00G05023	47650	8.06	174344	10.79	86331	14.85
09	OU4-SD-M05-211B	SE2074-21	49760	8.08	187919	10.79	103272	14.85
10	OU4-SD-M05-211BMS	WG90714-6	47104	8.08	175361	10.79	94210	14.85
11	OU4-SD-M05-211BMSD	WG90714-7	50937	8.08	192106	10.79	101225	14.85
12	OU4-SD-M08-111B	SE2074-29	44341	8.08	151104	10.79	76299	14.85
13	OU4-SD-M08-111BMS	WG90714-8	49658	8.09	183371	10.79	94790	14.85
14	OU4-SD-M08-111BMSD	WG90714-9	44524	8.08	176301	10.79	104435	14.85
15	OU4-SD-M03-311B	SE2074-1	42306	8.08	158510	10.79	91501	14.85
16	OU4-SD-M04-211B	SE2074-2	49450	8.08	196580	10.79	112658	14.85
17	OU4-SD-M03-211B	SE2074-3	41495	8.08	164620	10.79	99115	14.85
18	OU4-SD-M03-111B	SE2074-4	41409	8.08	168311	10.79	97101	14.85
19	OU4-SD-M04-111B	SE2074-5	33878	8.08	140057	10.79	85792	14.86
20	OU4-SD-M04-311B	SE2074-6	44714	8.08	187503	10.79	108471	14.86

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	46761	8.08	160858	10.80	74365	14.86
UPPER LIMIT	93522	8.62	321716	11.34	148730	15.40
LOWER LIMIT	23381	7.54	80429	10.26	37183	14.32

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01		SSTD1.00G0504	51945	8.08	195536	[illegible]	108965	14.85
02	OU4-RB-042011-01	SE2074-32	44314	8.08	192795	10.78	106538	14.85
03	OU4-SB-042011-01	SE2074-33	50398	8.08	207413	10.79	119575	14.85
04	OU4-SD-M01-111B	SE2074-7	51498	8.08	197689	10.79	116823	14.85
05	OU4-SD-M01-211B	SE2074-8	46826	8.08	189699	10.78	115898	14.85
06	OU4-SD-M01-311B	SE2074-9	46727	8.08	187686	10.79	113348	14.85
07	OU4-FD-041911-01	SE2074-10	44946	8.08	168826	10.79	99358	14.85
08	OU4-SD-M09-211B	SE2074-11	45546	8.08	181417	10.79	111316	14.85
09	OU4-SD-M09-311B	SE2074-12	39268	8.06	165630	10.79	98982	14.85
10	OU4-SD-M08-211B	SE2074-13	45699	8.08	190384	10.79	114285	14.85
11	OU4-SD-M07-211B	SE2074-14	36516	8.08	151575	10.79	95367	14.85
12	OU4-SD-M07-311B	SE2074-15	43285	8.08	174336	10.79	103770	14.85
13	OU4-SD-M12-211B	SE2074-20	43927	8.08	171452	10.79	102925	14.85
14	OU4-SD-M05-311B	SE2074-24	45469	8.08	183324	10.79	105724	14.86
15		SSTD1.00G0505	50923	8.06	191416	10.77	108824	14.85
16	OU4-FD-041911-02	SE2074-25	55123	8.08	212771	10.79	121194	14.85
17	OU4-SD-M07-111B	SE2074-26	53150	8.08	205120	10.79	117443	14.85
18	OU4-SD-M08-311B	SE2074-27	53260	8.08	203485	10.79	117604	14.85
19	OU4-SD-FD-041911-03	SE2074-28	52108	8.08	202877	10.79	112978	14.85
20	OU4-SD-M09-111B	SE2074-30	55462	8.08	207695	10.78	110628	14.85

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	46761	8.08	160858	10.80	74365	14.86
UPPER LIMIT	93522	8.62	321716	11.34	148730	15.40
LOWER LIMIT	23381	7.54	80429	10.26	37183	14.32

	CLIENT SAMPLE ID	LAB SAMPLE ID							
01	OU4-SD-M12-111B	SE2074-31	51981	8.08	199319	10.78	111278	14.85
02	OU4-SD-M12-311B	SE2074-19DL	43800	8.07	170048	10.79	103254	14.86
03	OU4-SD-M05-111B	SE2074-22DL	45898	8.08	205422	10.79	105661	14.86
04	OU4-SD-M05-411B	SE2074-23DL	43255	8.08	179573	10.79	102693	14.86
05	OU4-SD-M03-211B	SE2074-3DL	41524	8.08	183503	10.79	107945	14.85
06	OU4-SD-M03-111B	SE2074-4DL	41437	8.06	171215	10.79	107494	14.85
07	OU4-SD-M04-111B	SE2074-5DL	43939	8.08	181570	10.78	113383	14.85
08		SSTD1.00G0505	49010	8.06	182244	10.77	102359	14.85
09	OU4-SD-M12-311B	SE2074-19	48863	8.08	187966	10.78	109313	14.85
10	OU4-SD-M05-111B	SE2074-22	44653	8.08	173111	10.79	95490	14.85
11	OU4-SD-M05-411B	SE2074-23	48029	8.08	193386	10.79	111972	14.85
12	OU4-SD-M01-111B	SE2074-7DL	40660	8.06	166146	10.77	100462	14.85
13	OU4-SD-M01-211B	SE2074-8DL	40086	8.06	168134	10.77	103498	14.85
14	OU4-SD-M01-311B	SE2074-9DL	42159	8.06	150831	10.77	97289	14.85
15	OU4-FD-041911-01	SE2074-10DL	34889	8.06	143605	10.77	84876	14.85
16	OU4-SD-M09-211B	SE2074-11DL	38222	8.06	194936	10.79	108291	14.85
17	OU4-SD-M09-311B	SE2074-12DL	37374	8.06	170161	10.78	102150	14.85
18	OU4-SD-M08-211B	SE2074-13DL	36431	8.06	166404	10.79	103530	14.85
19	OU4-SD-M12-111B	SE2074-31DL	45186	8.06	167437	10.78	103117	14.85
20		SSTD1.00G0509	50101	8.06	166839	10.77	93646	14.84

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD		46761	8.08	160858	10.80	74365	14.86
UPPER LIMIT		93522	8.62	321716	11.34	148730	15.40
LOWER LIMIT		23381	7.54	80429	10.26	37183	14.32
CLIENT SAMPLE ID	LAB SAMPLE ID						
01 OU4-SD-M12-211B	SE2074-20DL	[illegible] 44323	[illegible].06	160904	10.77	92329	14.85
02							
03							
04							
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IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD		102048	18.37	72959	24.67	56949	27.81
UPPER LIMIT		204096	18.91	145918	25.21	113898	28.35
LOWER LIMIT		51024	17.83	36480	24.13	28475	27.27
CLIENT SAMPLE ID	LAB SAMPLE ID						
01	SSTD1.00G0502	127787	18.36	97203	24.67	76171	27.81
02 WG90713-BLANK	WG90713-1	133641	18.37	74520	24.67	46964	27.82
03 WG90713-LCS	WG90713-2,WE29	156082	18.36	84896	24.67	55896	27.81
04 WG90713-LCSD	WG90713-3,WE29	148689	18.36	84396	24.67	57903	27.81
05 WG90714-BLANK	WG90714-1	141797	18.37	74640	24.67	46630	27.82
06 WG90714-LCS	WG90714-2	148010	18.36	78101	24.67	53583	27.81
07 WG90714-LCSD	WG90714-3	163839	18.36	93193	24.66	61371	27.82
08	SSTD1.00G05023	130687	18.36	94157	24.66	76829	27.80
09 OU4-SD-M05-211B	SE2074-21	157499	18.36	72047	24.66	41428	27.80
10 OU4-SD-M05-211BMS	WG90714-6	141758	18.36	66929	24.66	39358	27.80
11 OU4-SD-M05-211BMSD	WG90714-7	150512	18.36	82452	24.66	47954	27.80
12 OU4-SD-M08-111B	SE2074-29	115426	18.36	65307	24.66	40320	27.80
13 OU4-SD-M08-111BMS	WG90714-8	155951	18.36	76195	24.66	43265	27.80
14 OU4-SD-M08-111BMSD	WG90714-9	181609	18.36	77528	24.66	38989	27.80
15 OU4-SD-M03-311B	SE2074-1	147378	18.36	74555	24.66	44426	27.80
16 OU4-SD-M04-211B	SE2074-2	180333	18.36	81196	24.66	47720	27.80
17 OU4-SD-M03-211B	SE2074-3	166173	18.36	68792	24.67	37430	27.81
18 OU4-SD-M03-111B	SE2074-4	160328	18.36	56615	24.67	30647	27.82
19 OU4-SD-M04-111B	SE2074-5	142200	18.36	59231	24.67	31241	27.81
20 OU4-SD-M04-311B	SE2074-6	168430	18.36	81607	24.66	48309	27.81

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	102048	18.37	72959	24.67	56949	27.81
UPPER LIMIT	204096	18.91	145918	25.21	113898	28.35
LOWER LIMIT	51024	17.83	36480	24.13	28475	27.27

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01		SSTD1.00G0504	174819	18.36	[illegible]	24.66	102005	27.80
02	OU4-RB-042011-01	SE2074-32	155881	18.36	111189	24.66	86765	27.81
03	OU4-SB-042011-01	SE2074-33	174873	18.36	136512	24.66	107793	27.81
04	OU4-SD-M01-111B	SE2074-7	193958	18.36	79554	24.67	42927	27.80
05	OU4-SD-M01-211B	SE2074-8	191341	18.36	82455	24.66	41324	27.81
06	OU4-SD-M01-311B	SE2074-9	178755	18.36	54864	24.67	28560	27.81
07	OU4-FD-041911-01	SE2074-10	162482	18.36	75639	24.66	36421	27.81
08	OU4-SD-M09-211B	SE2074-11	195022	18.36	77345	24.67	42414	27.81
09	OU4-SD-M09-311B	SE2074-12	175571	18.36	80137	24.67	45583	27.81
10	OU4-SD-M08-211B	SE2074-13	186737	18.36	64946	24.67	31781	27.81
11	OU4-SD-M07-211B	SE2074-14	162473	18.36	73651	24.67	39535	27.81
12	OU4-SD-M07-311B	SE2074-15	179877	18.36	63994	24.67	32865	27.81
13	OU4-SD-M12-211B	SE2074-20	173932	18.37	65394	24.69	34327	27.82
14	OU4-SD-M05-311B	SE2074-24	166650	18.37	60391	24.67	31444	27.82
15		SSTD1.00G0505	167929	18.37	120480	24.67	91843	27.83
16	OU4-FD-041911-02	SE2074-25	195639	18.36	84696	24.67	46809	27.82
17	OU4-SD-M07-111B	SE2074-26	186591	18.36	55459	24.67	33501	27.81
18	OU4-SD-M08-311B	SE2074-27	197995	18.36	86889	24.66	47717	27.81
19	OU4-SD-FD-041911-03	SE2074-28	175187	18.36	55437	24.67	33640	27.81
20	OU4-SD-M09-111B	SE2074-30	164139	18.36	69418	24.67	38633	27.81

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	102048	18.37	72959	24.67	56949	27.81
UPPER LIMIT	204096	18.91	145918	25.21	113898	28.35
LOWER LIMIT	51024	17.83	36480	24.13	28475	27.27

	CLIENT SAMPLE ID	LAB SAMPLE ID						
01	OU4-SD-M12-111B	SE2074-31	164098	18.37	46842	24.69	33550	27.82
02	OU4-SD-M12-311B	SE2074-19DL	161490	18.36	79930	24.67	47458	27.83
03	OU4-SD-M05-111B	SE2074-22DL	166855	18.36	81305	24.66	44123	27.82
04	OU4-SD-M05-411B	SE2074-23DL	161423	18.36	66925	24.67	31794	27.82
05	OU4-SD-M03-211B	SE2074-3DL	178066	18.36	79725	24.67	45306	27.82
06	OU4-SD-M03-111B	SE2074-4DL	176601	18.36	68646	24.67	33414	27.82
07	OU4-SD-M04-111B	SE2074-5DL	182444	18.36	76929	24.66	39116	27.82
08		SSTD1.00G0505	154231	18.36	100459	24.66	64271	27.83
09	OU4-SD-M12-311B	SE2074-19	180833	18.36	77245	24.69	42240	27.81
10	OU4-SD-M05-111B	SE2074-22	160292	18.36	68018	24.67	35979	27.81
11	OU4-SD-M05-411B	SE2074-23	182829	18.36	73252	24.67	41506	27.81
12	OU4-SD-M01-111B	SE2074-7DL	163544	18.35	76765	24.66	46970	27.81
13	OU4-SD-M01-211B	SE2074-8DL	176437	18.36	90708	24.66	54282	27.81
14	OU4-SD-M01-311B	SE2074-9DL	159996	18.36	87008	24.66	52893	27.81
15	OU4-FD-041911-01	SE2074-10DL	140094	18.36	66290	24.66	40102	27.81
16	OU4-SD-M09-211B	SE2074-11DL	187139	18.36	87390	24.66	58483	27.81
17	OU4-SD-M09-311B	SE2074-12DL	171517	18.36	83458	24.66	51126	27.81
18	OU4-SD-M08-211B	SE2074-13DL	169929	18.36	74034	24.66	40173	27.81
19	OU4-SD-M12-111B	SE2074-31DL	169773	18.36	88638	24.66	48374	27.82
20		SSTD1.00G0509	141819	18.35	94534	24.66	76475	27.82

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

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* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab File ID (Standard): G1032 Date Analyzed: 04/29/11

Instrument ID: GCMS-G Time Analyzed: 1525

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD		102048	18.37	72959	24.67	56949	27.81
UPPER LIMIT		204096	18.91	145918	25.21	113898	28.35
LOWER LIMIT		51024	17.83	36480	24.13	28475	27.27
CLIENT SAMPLE ID	LAB SAMPLE ID						
01 OU4-SD-M12-211B	SE2074-20DL	142488	18.35	81166	24.66	48983	27.80
02							
03							
04							
05							
06							
07							
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18							
19							
20							

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.54 minutes of internal standard RT
RT LOWER LIMIT = - 0.54 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

PESTICIDE DATA

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 03/14/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.22 DCB: 12.54

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVAL	03/14/11	1636		
02		INDAB 0.05	03/14/11	1653	4.22	12.54
03		INDAB 0.005	03/14/11	1711	4.22	12.54
04		INDAB 0.01	03/14/11	1728	4.22	12.54
05		INDAB 0.025	03/14/11	1746	4.22	12.54
06		INDAB 0.1	03/14/11	1803	4.22	12.54
07		INDAB 0.25	03/14/11	1821	4.22	12.54
08		IND 0.05	03/14/11	1838		
09		EVAL	05/04/11	1506		
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		EXTRA PEST 0	05/04/11	1552		
02		EXTRA PEST 0	05/04/11	1610		
03		EXTRA PEST 0	05/04/11	1627		
04		EXTRA PEST 0	05/04/11	1645		
05		EXTRA PEST 0	05/04/11	1702		
06		EXTRA PEST 0	05/04/11	1720		
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Client Sample ID (PEM): Date Analyzed :03/14/11
Lab Sample ID (PEM): EVAL Time Analyzed :1636

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	1EC00321.D	3.70	3.48

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date(s): 03/14/11 05/04/11

Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Calibration Time(s): 1653 1737

LAB FILE ID: RF0.005: 1EE00074 RF0.01: 1EE00075 RF0.025: 1EE00076
RF0.05: 1EE00073 RF0.1: 1EE00077 RF0.25: 1EE00078

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
alpha-BHC	55151	126120	336510	725280	1459700	3576800	2ORDR	1.205e-003	6.688e-008	7.45e-016	0.99993	0.99000
gamma BHC	53492	121690	312920	674810	1330300	3330000	2ORDR	7.678e-004	7.416e-008	2.044e-016	0.99995	0.99000
Heptachlor	50621	113980	293790	620330	1222400	2971000	2ORDR	7.476e-004	7.929e-008	1.549e-015	0.99997	0.99000
Aldrin	44426	100500	265360	565430	1138500	2747700	2ORDR	1.155e-003	8.501e-008	2.012e-015	0.99994	0.99000
beta-BHC	24587	53143	130610	280180	555460	1407500	2ORDR	4.796e-004	1.8e-007	-1.93e-015	0.99996	0.99000
delta-BHC	33283	75587	200590	441400	936060	2393800	2ORDR	1.642e-003	1.081e-007	-1.84e-015	0.99983	0.99000
Heptachlor Epoxide	42896	96180	247360	531700	1035500	2528800	2ORDR	7.416e-004	9.351e-008	2.003e-015	0.99994	0.99000
gamma-Chlordane	42146	94609	240770	520030	1036600	2549500	2ORDR	9.209e-004	9.448e-008	1.255e-015	0.99994	0.99000
alpha-Chlordane	41089	89552	229360	476520	981470	2382300	2ORDR	9.899e-004	1.e-007	1.872e-015	0.99992	0.99000
4,4'-DDE	44210	99097	253800	547410	1077500	2573000	2ORDR	9.802e-004	8.869e-008	3.138e-015	0.99994	0.99000
Dieldrin	42133	94660	246900	517430	1036900	2532800	2ORDR	8.602e-004	9.421e-008	1.635e-015	0.99997	0.99000
Endrin	33114	72859	191810	410720	819600	2032800	2ORDR	9.181e-004	1.201e-007	1.212e-015	0.99995	0.99000
4,4'-DDD	33690	75552	196270	418650	845640	2106100	2ORDR	9.582e-004	1.171e-007	5.418e-016	0.99995	0.99000
Endosulfan II	35203	80441	206810	438710	872220	2148100	2ORDR	8.05e-004	1.123e-007	1.709e-015	0.99996	0.99000
4,4'-DDT	36361	80921	205940	435170	876920	2138000	2ORDR	8.876e-004	1.115e-007	2.313e-015	0.99996	0.99000
2,4'-DDD	26661	48878	129560	265590	543240	1390200	2ORDR	4.351e-004	1.869e-007	-5.32e-015	0.99998	0.99000
2,4'-DDE	34113	61024	164320	324440	679310	1694000	2ORDR	5.218e-004	1.483e-007	-6.56e-016	0.99992	0.99000
2,4'-DDT	34054	61562	164930	333100	685620	1766000	2ORDR	3.68e-004	1.489e-007	-4.28e-015	0.99998	0.99000
Mirex	23358	42254	111940	215450	440260	1127400	2ORDR	-1.38e-004	2.317e-007	-8.73e-015	0.99998	0.99000
cis-nonachlor	46566	86186	228290	457330	990880	2409700	2ORDR	1.124e-003	1.007e-007	1.036e-015	0.99972	0.99000
trans-nonachlor	50802	91607	239000	485300	994740	2510100	2ORDR	3.554e-004	1.015e-007	-8.4e-016	0.99997	0.99000
oxychlordane	43061	78824	204370	417610	863210	2157600	2ORDR	5.422e-004	1.165e-007	-4.38e-016	0.99995	0.99000
hexachlorobenzene	73447	133680	344340	678930	1388300	3418100	2ORDR	1.715e-004	7.184e-008	3.613e-016	0.99997	0.99000
Tetrachloro-m-Xylene	41385	91600	229260	486460	967090	2387400	2ORDR	6.523e-004	1.017e-007	1.135e-015	0.99997	0.99000
Decachlorobiphenyl	22159	48834	119070	244930	480580	1179800	2ORDR	1.878e-004	2.041e-007	6.509e-015	0.99998	0.99000

FORM VI PESTICIDE

Report Date : 05-May-2011 12:54

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m\XPEST04.m
Cal Date : 05-May-2011 12:41 gc01.i

Calibration File Names:
Level 1: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\GC01EE04.b\1EE00074.D
Level 2: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\GC01EE04.b\1EE00075.D
Level 3: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\GC01EE04.b\1EE00076.D
Level 4: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\GC01EE04.b\1EE00073.D
Level 5: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\GC01EE04.b\1EE00077.D
Level 6: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\GC01EE04.b\1EE00078.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
1 Total DDDs	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
2 Total DDEs	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
3 Total DDTs	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
52 Dichlobenil	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
54 Aroclor-1221 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
55 Aroclor-1232 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
56 Aroclor-1242 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-

Katahdin Analytical Services A0000153

Report Date : 05-May-2011 12:54

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ISTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m\XPEST04.m
Cal Date : 05-May-2011 12:41 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
53 Aroclor-1016 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
63 hexachlorobenzene	73447	133675	344343	678926	1388329	3418081	QUAD	0.00017	7.184e-008	3.613e-016	0.99997	
5 alpha-BHC	55151	126122	336511	725284	1459721	3576795	QUAD	0.00121	6.688e-008	7.450e-016	0.99993	
57 Aroclor-1248 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
11 Chlorothalonil (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
6 gamma BHC	53492	121693	312918	674812	1330331	3330054	QUAD	0.00077	7.416e-008	2.044e-016	0.99995	
7 beta-BHC	24587	53143	130608	280184	555457	1407522	QUAD	0.00048	1.800e-007	-1.930e-01	0.99996	
9 Heptachlor	50621	113979	293794	620332	1222394	2970959	QUAD	0.00075	7.929e-008	1.549e-015	0.99997	
58 Aroclor-1254 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-

Report Date : 05-May-2011 12:54

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m\XPEST04.m
Cal Date : 05-May-2011 12:41 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
8 delta-BHC	33283	75587	200593	441395	936059	2393859	QUAD	0.00164	1.081e-007	-1.838e-01	0.99983	
10 Aldrin	44426	100502	265361	565426	1138549	2747737	QUAD	0.00116	8.501e-008	2.012e-015	0.99994	
12 Alachlor	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
62 oxychlordane	43061	78824	204369	417608	863212	2157594	QUAD	0.00054	1.165e-007	-4.383e-01	0.99995	
13 Heptachlor Epoxide	42896	96180	247362	531699	1035523	2528823	QUAD	0.00074	9.351e-008	2.003e-015	0.99994	
59 Aroclor-1260 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
16 2,4'-DDE	34113	61024	164324	324445	679312	1693981	QUAD	0.00052	1.483e-007	-6.564e-01	0.99992	
25 2,4'-DDT	34054	61562	164934	333095	685619	1765969	QUAD	0.00037	1.489e-007	-4.275e-01	0.99998	
15 gamma-Chlordane	42146	94609	240774	520028	1036582	2549546	QUAD	0.00092	9.448e-008	1.255e-015	0.99994	
61 trans-nonachlor	50802	91607	239001	485302	994736	2510136	QUAD	0.00036	1.015e-007	-8.402e-01	0.99997	
14 Chlordane (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
17 alpha-Chlordane	41089	89552	229359	476522	981473	2382278	QUAD	0.00099	1.000e-007	1.872e-015	0.99992	
20 Endosulfan I	37663	84958	218888	454068	925950	2242300	QUAD	0.00096	1.055e-007	2.474e-015	0.99995	

Report Date : 05-May-2011 12:54

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m\XPEST04.m
Cal Date : 05-May-2011 12:41 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
19 4,4'-DDE	44210	99097	253800	547406	1077514	2573001	QUAD	0.00098	8.869e-008	3.138e-015	0.99994	
18 Toxaphene (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(6)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(7)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(8)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(9)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(10)	(10) +++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
21 Dieldrin	42133	94660	246897	517434	1036883	2532837	QUAD	0.00086	9.421e-008	1.635e-015	0.99997	
22 2,4'-DDD	26661	48878	129562	265589	543241	1390206	QUAD	0.00044	1.869e-007	-5.320e-01	0.99998	
23 Endrin	33114	72859	191806	410721	819595	2032845	QUAD	0.00092	1.201e-007	1.212e-015	0.99995	
60 cis-nonachlor	46566	86186	228289	457334	990882	2409688	QUAD	0.00112	1.007e-007	1.036e-015	0.99973	
24 4,4'-DDD	33690	75552	196266	418654	845645	2106135	QUAD	0.00096	1.171e-007	5.418e-016	0.99995	
30 Propiconizole (Tilt)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
26 Endosulfan II	35203	80441	206813	438713	872223	2148061	QUAD	0.00081	1.123e-007	1.709e-015	0.99996	
27 4,4'-DDT	36361	80921	205941	435173	876917	2137974	QUAD	0.00089	1.115e-007	2.313e-015	0.99996	
28 Endrin Aldehyde	27249	66865	167336	353529	712414	1744616	QUAD	0.00092	1.375e-007	2.985e-015	0.99996	
32 Endosulfan sulfate	22843	52504	138741	297692	608336	1561899	QUAD	0.00106	1.657e-007	-4.077e-01	0.99995	
29 Methoxychlor	19580	41548	101367	212263	419388	1030547	QUAD	0.00035	2.344e-007	7.631e-015	0.99998	

Report Date : 05-May-2011 12:54

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 04-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m\XPEST04.m
Cal Date : 05-May-2011 12:41 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
33 Endrin Ketone	32229	71471	175766	396972	763330	1855155	QUAD	0.00087	1.259e-007	4.539e-015	0.99986
31 Mirex	23358	42254	111937	215447	440264	1127422	QUAD	-0.00014	2.317e-007	-8.730e-01	0.99998
$ 4 Tetrachloro-m-Xylene	41385	91600	229265	486465	967089	2387428	QUAD	0.00065	1.017e-007	1.135e-015	0.99997
$ 34 Decachlorobiphenyl	22159	48834	119073	244926	480584	1179789	QUAD	0.00019	2.041e-007	6.509e-015	0.99999

Report Date : 05-May-2011 12:54

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m\XPEST04.m
Cal Date : 05-May-2011 12:41 gc01.i

Curve	Formula	Units
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 03/14/11 Time: 1838

Lab File ID: 1EC00328 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1737

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.92e-002	5.e-002	17218000	0.01	-1.60	15.00	2RDR
gamma BHC	4.81e-002	5.e-002	15905000	0.01	-3.80	15.00	2RDR
beta-BHC	5.38e-002	5.e-002	6493600.0	0.01	7.60	15.00	2RDR
delta-BHC	5.05e-002	5.e-002	11514000	0.01	1.00	15.00	2RDR
Heptachlor	5.04e-002	5.e-002	13294000	0.01	0.80	15.00	2RDR
Aldrin	4.84e-002	5.e-002	12504000	0.01	-3.20	15.00	2RDR
Heptachlor Epoxide	4.94e-002	5.e-002	11348000	0.01	-1.20	15.00	2RDR
gamma-Chlordane	5.e-002	5.e-002	10944000	0.01	0.00	15.00	2RDR
alpha-Chlordane	4.95e-002	5.e-002	10257000	0.01	-1.00	15.00	2RDR
4,4'-DDE	4.97e-002	5.e-002	10987000	0.01	-0.60	15.00	2RDR
Endosulfan I	4.98e-002	5.e-002	9811700.0	0.01	-0.40	15.00	2RDR
Dieldrin	4.88e-002	5.e-002	10647000	0.01	-2.40	15.00	2RDR
Endrin	4.88e-002	5.e-002	9140200.0	0.01	-2.40	15.00	2RDR
4,4'-DDD	4.93e-002	5.e-002	8124200.0	0.01	-1.40	15.00	2RDR
Endosulfan II	4.78e-002	5.e-002	8610600.0	0.01	-4.40	15.00	2RDR
4,4'-DDT	4.85e-002	5.e-002	8206400.0	0.01	-3.00	15.00	2RDR
Endrin Aldehyde	4.48e-002	5.e-002	6634700.0	0.01	-10.40	15.00	2RDR
Methoxychlor	5.08e-002	5.e-002	4061800.0	0.01	1.60	15.00	2RDR
Endosulfan sulfate	4.81e-002	5.e-002	5877300.0	0.01	-3.80	15.00	2RDR
Endrin Ketone	4.7e-002	5.e-002	7704600.0	0.01	-6.00	15.00	2RDR

FORM VII PEST

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.07 DCB: 12.27

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		INDAB 0.05	05/04/11	1524	4.08	12.27
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

	QC LIMITS
TCX = Tetrachloro-m-Xylene	(+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl	(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Client Sample ID (PEM): Date Analyzed :05/04/11
Lab Sample ID (PEM): EVAL Time Analyzed :1506

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	1EE00071.D	0.38	0.01

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 03/14/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.99 DCB: 12.46

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		EVAL	03/14/11	1636		
02		INDAB 0.05	03/14/11	1653	3.99	12.46
03		INDAB 0.005	03/14/11	1711	3.99	12.46
04		INDAB 0.01	03/14/11	1728	3.99	12.46
05		INDAB 0.025	03/14/11	1746	3.99	12.46
06		INDAB 0.1	03/14/11	1803	3.99	12.45
07		INDAB 0.25	03/14/11	1821	3.99	12.45
08		IND 0.05	03/14/11	1838		
09		EVAL	05/04/11	1506		
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION					
	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT #	RT #
01		EXTRA PEST 0	05/04/11	1552		
02		EXTRA PEST 0	05/04/11	1610		
03		EXTRA PEST 0	05/04/11	1627		
04		EXTRA PEST 0	05/04/11	1645		
05		EXTRA PEST 0	05/04/11	1702		
06		EXTRA PEST 0	05/04/11	1720		
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Client Sample ID (PEM): Date Analyzed :03/14/11
Lab Sample ID (PEM): EVAL Time Analyzed :1636

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	1EC00321.D	3.64	3.90

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date(s): 03/14/11 05/04/11

Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Calibration Time(s): 1653 1720

LAB FILE ID: RF0.005: 1EE00074 RF0.01: 1EE00075 RF0.025: 1EE00076
RF0.05: 1EE00073 RF0.1: 1EE00077 RF0.25: 1EE00078

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
alpha-BHC	42311	98977	263650	575450	1159900	2785300	2ORDR	1.444e-003	8.292e-008	2.257e-015	0.99990	0.99000
gamma BHC	41039	94679	248230	541480	1077700	2599800	2ORDR	1.228e-003	8.935e-008	2.429e-015	0.99992	0.99000
Heptachlor	33822	77151	199850	432820	894640	2159200	2ORDR	1.474e-003	1.089e-007	2.856e-015	0.99985	0.99000
Aldrin	34074	78690	207350	449000	901300	2144800	2ORDR	1.347e-003	1.06e-007	4.595e-015	0.99991	0.99000
beta-BHC	18926	41964	103500	220350	437150	1087800	2ORDR	5.632e-004	2.262e-007	2.821e-015	0.99997	0.99000
delta-BHC	22802	56298	154390	352240	744140	1871000	2ORDR	2.125e-003	1.338e-007	-7.45e-016	0.99975	0.99000
Heptachlor Epoxide	33300	73444	194190	410810	818800	1967200	2ORDR	1.004e-003	1.176e-007	4.535e-015	0.99995	0.99000
gamma-Chlordane	33778	74006	194280	409900	792470	1999800	2ORDR	3.979e-004	1.246e-007	1.279e-016	0.99993	0.99000
alpha-Chlordane	32262	71544	182050	391030	765270	1870500	2ORDR	7.221e-004	1.269e-007	3.398e-015	0.99995	0.99000
4,4'-DDE	33187	76363	193750	432520	832250	2053000	2ORDR	8.617e-004	1.164e-007	2.404e-015	0.99987	0.99000
Dieldrin	31476	70731	188010	405630	780640	1942500	2ORDR	6.87e-004	1.249e-007	1.812e-015	0.99990	0.99000
Endrin	22889	50952	130570	286430	583910	1459600	2ORDR	1.192e-003	1.701e-007	1.93e-016	0.99991	0.99000
4,4'-DDD	25701	57936	153250	334390	645860	1644100	2ORDR	6.834e-004	1.531e-007	-8.5e-016	0.99989	0.99000
Endosulfan II	26908	62119	160910	337860	667060	1653800	2ORDR	6.62e-004	1.472e-007	2.132e-015	0.99997	0.99000
4,4'-DDT	26670	60105	155870	332660	666590	1688100	2ORDR	8.032e-004	1.497e-007	-1.25e-015	0.99996	0.99000
2,4'-DDD	18797	34021	89359	183940	385840	1006800	2ORDR	5.936e-004	2.672e-007	-1.95e-014	0.99994	0.99000
2,4'-DDE	23625	43831	113740	235940	494740	1225000	2ORDR	8.879e-004	2.024e-007	6.552e-016	0.99988	0.99000
2,4'-DDT	24162	43922	115270	239500	498140	1289400	2ORDR	6.186e-004	2.057e-007	-9.57e-015	0.99995	0.99000
Mirex	17726	31926	83134	161120	331610	839300	2ORDR	-2.53e-005	3.064e-007	-1.02e-014	0.99997	0.99000
cis-nonachlor	33317	61700	159910	336980	714800	1777200	2ORDR	1.108e-003	1.406e-007	-3.84e-016	0.99982	0.99000
trans-nonachlor	35801	65742	169680	353160	745250	1845900	2ORDR	9.448e-004	1.346e-007	1.071e-016	0.99985	0.99000
oxychlordane	30562	55123	145210	297720	618800	1555400	2ORDR	6.41e-004	1.631e-007	-1.85e-015	0.99993	0.99000
hexachlorobenzene	51966	94381	243030	496230	997200	2418600	2ORDR	3.706e-004	9.838e-008	1.99e-015	0.99998	0.99000
Tetrachloro-m-Xylene	30666	67156	177400	367630	735320	1794400	2ORDR	7.733e-004	1.328e-007	3.402e-015	0.99998	0.99000
Decachlorobiphenyl	18493	39639	94353	190250	376130	941550	2ORDR	-1.6e-004	2.656e-007	1.622e-016	0.99999	0.99000

FORM VI PESTICIDE

Report Date : 05-May-2011 12:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m
Cal Date : 05-May-2011 12:38 gc01.i

Calibration File Names:
Level 1: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\1EE00074.D
Level 2: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\1EE00075.D
Level 3: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\1EE00076.D
Level 4: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\1EE00073.D
Level 5: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\1EE00077.D
Level 6: \\Target_server\GG\chem\gc01.i\GC01EE04B.b\1EE00078.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
M 1 Total DDDs	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
M 2 Total DDEs	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
M 3 Total DDTs	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
11 Chlorothalonil(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
52 Dichlobenil	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
54 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
55 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-

Katahdin Analytical Services A0000144

Report Date : 05-May-2011 12:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m
Cal Date : 05-May-2011 12:38 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
56 Aroclor-1242 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
53 Aroclor-1016 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
5 alpha-BHC	42311	98977	263646	575451	1159874	2785307	QUAD	0.00144	8.292e-008	2.257e-015	0.99990	
63 hexachlorobenzene	51966	94381	243034	496231	997203	2418601	QUAD	0.00037	9.838e-008	1.990e-015	0.99998	
57 Aroclor-1248 (1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
6 gamma BHC	41039	94679	248233	541475	1077697	2599807	QUAD	0.00123	8.935e-008	2.429e-015	0.99992	
7 beta-BHC	18926	41964	103496	220347	437147	1087848	QUAD	0.00056	2.262e-007	2.821e-015	0.99997	
8 delta-BHC	22802	56298	154387	352242	744143	1870964	QUAD	0.00213	1.338e-007	-7.445e-01	0.99975	
9 Heptachlor	33822	77151	199846	432820	894639	2159200	QUAD	0.00147	1.089e-007	2.856e-015	0.99985	

Katahdin Analytical Services A0000145

Report Date : 05-May-2011 12:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m
Cal Date : 05-May-2011 12:38 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
58 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
10 Aldrin	34074	78690	207349	448998	901296	2144777	QUAD	0.00135	1.060e-007	4.595e-015	0.99991	
12 Alachlor	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
62 oxychlordane	30562	55123	145211	297715	618795	1555449	QUAD	0.00064	1.631e-007	-1.846e-01	0.99993	
14 Chlordane(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
13 Heptachlor Epoxide	33300	73444	194194	410811	818803	1967238	QUAD	0.00100	1.176e-007	4.535e-015	0.99995	
59 Aroclor-1260(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
16 2,4'-DDE	23625	43831	113745	235935	494735	1224974	QUAD	0.00089	2.024e-007	6.552e-016	0.99988	
25 2,4'-DDT	24162	43922	115272	239498	498137	1289405	QUAD	0.00062	2.057e-007	-9.571e-01	0.99995	
15 gamma-Chlordane	33778	74006	194285	409902	792471	1999791	QUAD	0.00040	1.246e-007	1.279e-016	0.99993	
18 Toxaphene(1)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(2)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(3)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-

Katahdin Analytical Services A0000146

Report Date : 05-May-2011 12:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m
Cal Date : 05-May-2011 12:38 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
(4)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(5)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(6)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(7)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(8)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(9)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
(10) (10	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
17 alpha-Chlordane	32262	71544	182047	391026	765268	1870515	QUAD	0.00072	1.269e-007	3.398e-015	0.99995	
61 trans-nonachlor	35801	65742	169684	353164	745254	1845925	QUAD	0.00094	1.346e-007	1.071e-016	0.99985	
20 Endosulfan I	30018	67073	171781	372396	717140	1746264	QUAD	0.00070	1.343e-007	4.872e-015	0.99992	
19 4,4'-DDE	33187	76363	193747	432515	832247	2053020	QUAD	0.00086	1.164e-007	2.404e-015	0.99987	
22 2,4'-DDD	18797	34021	89359	183943	385843	1006822	QUAD	0.00059	2.672e-007	-1.947e-01	0.99994	
21 Dieldrin	31476	70731	188008	405632	780638	1942539	QUAD	0.00069	1.249e-007	1.812e-015	0.99990	
23 Endrin	22889	50952	130566	286428	583913	1459617	QUAD	0.00119	1.701e-007	1.930e-016	0.99991	
60 cis-nonachlor	33317	61700	159910	336985	714798	1777225	QUAD	0.00111	1.406e-007	-3.841e-01	0.99983	
24 4,4'-DDD	25701	57936	153248	334386	645862	1644109	QUAD	0.00068	1.531e-007	-8.498e-01	0.99989	
26 Endosulfan II	26908	62119	160911	337858	667055	1653852	QUAD	0.00066	1.472e-007	2.132e-015	0.99997	
30 Propiconizole (Tilt)	+++++	+++++	+++++	+++++	+++++	+++++	QUAD	0.000e+000	0.000e+000	0.000e+000	0.000e+000	<-
28 Endrin Aldehyde	20958	50290	125863	266932	531039	1327921	QUAD	0.00069	1.864e-007	9.969e-016	0.99997	
27 4,4'-DDT	26670	60105	155871	332662	666588	1688111	QUAD	0.00080	1.497e-007	-1.245e-01	0.99996	
32 Endosulfan sulfate	15522	38665	97532	215004	446530	1130392	QUAD	0.00142	2.246e-007	-4.232e-01	0.99988	
29 Methoxychlor	14777	31557	77669	158642	317199	791380	QUAD	0.00022	3.142e-007	1.845e-015	1.00000	

Katahdin Analytical Services A0000147

Report Date : 05-May-2011 12:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m
Cal Date : 05-May-2011 12:38 gc01.i

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
33 Endrin Ketone	21806	50039	127839	277025	544902	1336678	QUAD	0.00088	1.786e-007	5.807e-015	0.99994
31 Mirex	17726	31926	83134	161121	331607	839303	QUAD	-0.00003	3.064e-007	-1.020e-01	0.99997
$ 4 Tetrachloro-m-Xylene	30666	67156	177404	367633	735322	1794454	QUAD	0.00077	1.328e-007	3.402e-015	0.99998
$ 34 Decachlorobiphenyl	18493	39639	94353	190246	376126	941549	QUAD	-0.00016	2.656e-007	1.622e-016	0.99999

Katahdin Analytical Services A0000148

Report Date : 05-May-2011 12:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 14-MAR-2011 16:53
End Cal Date : 04-MAY-2011 17:20
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\GG\chem\gc01.i\GC01EE04B.b\XPEST04.m
Cal Date : 05-May-2011 12:38 gc01.i

Curve	Formula	Units
Quad	Amt = b + m1*Rsp' + m2*Rsp^2	Response

Katahdin Analytical Services A0000149

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 03/14/11 Time: 1838

Lab File ID: 1EC00328 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.76e-002	5.e-002	7440.0000	0.01	-4.80	15.00	2RDR
gamma BHC	4.7e-002	5.e-002	14760.000	0.01	-6.00	15.00	2RDR
beta-BHC	5.25e-002	5.e-002	18280.000	0.01	5.00	15.00	2RDR
delta-BHC	4.83e-002	5.e-002	8582500.0	0.01	-3.40	15.00	2RDR
Heptachlor	4.75e-002	5.e-002	3180.0000	0.01	-5.00	15.00	2RDR
Aldrin	4.75e-002	5.e-002	12160.000	0.01	-5.00	15.00	2RDR
Heptachlor Epoxide	4.77e-002	5.e-002	9520.0000	0.01	-4.60	15.00	2RDR
gamma-Chlordane	4.88e-002	5.e-002	6659300.0	0.01	-2.40	15.00	2RDR
alpha-Chlordane	4.89e-002	5.e-002	12480.000	0.01	-2.20	15.00	2RDR
4,4'-DDE	4.89e-002	5.e-002	7433800.0	0.01	-2.20	15.00	2RDR
Endosulfan I	4.77e-002	5.e-002	7369900.0	0.01	-4.60	15.00	2RDR
Dieldrin	4.89e-002	5.e-002	8200.0000	0.01	-2.20	15.00	2RDR
Endrin	4.56e-002	5.e-002	5717600.0	0.01	-8.80	15.00	2RDR
4,4'-DDD	4.79e-002	5.e-002	7400.0000	0.01	-4.20	15.00	2RDR
Endosulfan II	4.59e-002	5.e-002	5635200.0	0.01	-8.20	15.00	2RDR
4,4'-DDT	4.92e-002	5.e-002	4292300.0	0.01	-1.60	15.00	2RDR
Endrin Aldehyde	4.42e-002	5.e-002	74440.000	0.01	-11.60	15.00	2RDR
Methoxychlor	5.06e-002	5.e-002	32200.000	0.01	1.20	15.00	2RDR
Endosulfan sulfate	4.68e-002	5.e-002	6560.0000	0.01	-6.40	15.00	2RDR
Endrin Ketone	4.59e-002	5.e-002	60360.000	0.01	-8.20	15.00	2RDR

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.83 DCB: 12.12

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		INDAB 0.05	05/04/11	1524	3.83	12.12
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

7D

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Client Sample ID (PEM): Date Analyzed :05/04/11
Lab Sample ID (PEM): EVAL Time Analyzed :1506

LAB SAMPLE ID	FILENAME	% DDT BREAKDOWN	% ENDRIN BREAKDOWN
EVAL	1EE00071.D	4.07	1.76

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.07 DCB: 12.27

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	WG90673-BLAN	WG90673-1	05/04/11	1755	4.08	12.27
02	WG90673-LCS	WG90673-2	05/04/11	1812	4.08	12.27
03	WG90673-LCSD	WG90673-3	05/04/11	1830	4.07	12.27
04	WG90797-BLAN	WG90797-1	05/04/11	1847	4.07	12.26
05	WG90797-LCS	WG90797-2	05/04/11	1905	4.08	12.27
06	WG90797-LCSD	WG90797-3	05/04/11	1922	4.08	12.26
07	OU4-SD-M08-1	WG90797-4	05/04/11	1940	4.08	12.27
08	OU4-SD-M08-1	WG90797-5	05/04/11	1957	4.08	12.27
09		INDAB 0.025	05/04/11	2049	4.07	12.27
10		EXTRA PEST 0	05/04/11	2107		
11	OU4-RB-04201	SE2074-32	05/04/11	2124	4.07	12.27
12	OU4-SB-04201	SE2074-33	05/04/11	2142	4.08	12.27
13	OU4-SD-M09-2	SE2074-11	05/04/11	2159	4.07	12.27
14	OU4-SD-M09-3	SE2074-12	05/04/11	2217	4.08	12.27
15	OU4-SD-M08-2	SE2074-13	05/04/11	2234	4.07	12.26
16	OU4-SD-M07-2	SE2074-14	05/04/11	2252	4.08	12.27
17	OU4-SD-M07-3	SE2074-15	05/04/11	2309	4.08	12.27
18	OU4-SD-M07-1	SE2074-26	05/04/11	2327	4.08	12.27
19	OU4-SD-M08-3	SE2074-27	05/04/11	2344	4.08	12.27
20	OU4-SD-FD-04	SE2074-28	05/05/11	0002	4.08	12.27

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.07 DCB: 12.27

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		INDAB 0.05	05/05/11	0019	4.08	12.27
02		EXTRA PEST 0	05/05/11	0036		
03	OU4-SD-M08-1	SE2074-29	05/05/11	0054	4.08	12.27
04	OU4-SD-M09-1	SE2074-30	05/05/11	0111	4.07	12.27
05		INDAB 0.05	05/05/11	0314	4.07	12.27
06		EXTRA PEST 0	05/05/11	0331		
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/04/11 Time: 1524

Lab File ID: 1EE00072 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1737

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.74e-002	5.e-002	17218000	0.01	14.80	15.00	2RDR	
gamma BHC	5.71e-002	5.e-002	15905000	0.01	14.20	15.00	2RDR	
Heptachlor	5.33e-002	5.e-002	13294000	0.01	6.60	15.00	2RDR	
beta-BHC	5.66e-002	5.e-002	6493600.0	0.01	13.20	15.00	2RDR	
Aldrin	5.38e-002	5.e-002	12504000	0.01	7.60	15.00	2RDR	
delta-BHC	5.51e-002	5.e-002	11514000	0.01	10.20	15.00	2RDR	
Heptachlor Epoxide	5.31e-002	5.e-002	11348000	0.01	6.20	15.00	2RDR	
Endosulfan I	5.24e-002	5.e-002	9811700.0	0.01	4.80	15.00	2RDR	
4,4'-DDE	4.96e-002	5.e-002	10987000	0.01	-0.80	15.00	2RDR	
Dieldrin	5.06e-002	5.e-002	10647000	0.01	1.20	15.00	2RDR	
Endrin	5.59e-002	5.e-002	9140200.0	0.01	11.80	15.00	2RDR	
4,4'-DDD	4.77e-002	5.e-002	8124200.0	0.01	-4.60	15.00	2RDR	
Endosulfan II	4.67e-002	5.e-002	8610600.0	0.01	-6.60	15.00	2RDR	
4,4'-DDT	4.69e-002	5.e-002	8206400.0	0.01	-6.20	15.00	2RDR	
Endrin Aldehyde	4.55e-002	5.e-002	6634700.0	0.01	-9.00	15.00	2RDR	
Endosulfan sulfate	4.39e-002	5.e-002	5877300.0	0.01	-12.20	15.00	2RDR	
Methoxychlor	4.71e-002	5.e-002	4061800.0	0.01	-5.80	15.00	2RDR	
alpha-Chlordane	5.15e-002	5.e-002	10257000	0.01	3.00	15.00	2RDR	
gamma-Chlordane	5.15e-002	5.e-002	10944000	0.01	3.00	15.00	2RDR	
Endrin Ketone	4.21e-002	5.e-002	7704600.0	0.01	-15.80	15.00	2RDR	<-
Tetrachloro-m-Xylene	6.01e-002	5.e-002	11852000	0.01	20.20	15.00	2RDR	<-
Decachlorobiphenyl	4.65e-002	5.e-002	4823600.0	0.01	-7.00	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/04/11 Time: 2049

Lab File ID: 1EE00090 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1737

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF3e-002 or AMOUNT	CCAL RRF3e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	2.92e-002	2.5e-002	17218000	0.01	16.80	15.00	2RDR	<-
gamma-BHC	2.89e-002	2.5e-002	15905000	0.01	15.60	15.00	2RDR	<-
Heptachlor	2.72e-002	2.5e-002	13294000	0.01	8.80	15.00	2RDR	
beta-BHC	2.89e-002	2.5e-002	6493600.0	0.01	15.60	15.00	2RDR	<-
Aldrin	2.73e-002	2.5e-002	12504000	0.01	9.20	15.00	2RDR	
delta-BHC	3.01e-002	2.5e-002	11514000	0.01	20.40	15.00	2RDR	<-
Heptachlor Epoxide	2.68e-002	2.5e-002	11348000	0.01	7.20	15.00	2RDR	
Endosulfan I	2.61e-002	2.5e-002	9811700.0	0.01	4.40	15.00	2RDR	
4,4'-DDE	2.52e-002	2.5e-002	10987000	0.01	0.80	15.00	2RDR	
Dieldrin	2.55e-002	2.5e-002	10647000	0.01	2.00	15.00	2RDR	
Endrin	2.8e-002	2.5e-002	9140200.0	0.01	12.00	15.00	2RDR	
4,4'-DDD	2.48e-002	2.5e-002	8124200.0	0.01	-0.80	15.00	2RDR	
Endosulfan II	2.48e-002	2.5e-002	8610600.0	0.01	-0.80	15.00	2RDR	
4,4'-DDT	2.35e-002	2.5e-002	8206400.0	0.01	-6.00	15.00	2RDR	
Endrin Aldehyde	2.4e-002	2.5e-002	6634700.0	0.01	-4.00	15.00	2RDR	
Endosulfan sulfate	2.5e-002	2.5e-002	5877300.0	0.01	0.00	15.00	2RDR	
Methoxychlor	2.37e-002	2.5e-002	4061800.0	0.01	-5.20	15.00	2RDR	
alpha-Chlordane	2.63e-002	2.5e-002	10257000	0.01	5.20	15.00	2RDR	
gamma-Chlordane	2.66e-002	2.5e-002	10944000	0.01	6.40	15.00	2RDR	
Endrin Ketone	2.38e-002	2.5e-002	7704600.0	0.01	-4.80	15.00	2RDR	
Tetrachloro-m-Xylene	3.03e-002	2.5e-002	11852000	0.01	21.20	15.00	2RDR	<-
Decachlorobiphenyl	2.42e-002	2.5e-002	4823600.0	0.01	-3.20	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/04/11 Time: 2107

Lab File ID: 1EE00091 Init. Calib. Date(s): 05/04/11 05/04/11

Init. Calib. Times: 1552 1720

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
oxychlordane	5.1e-002	5.e-002	9525900.0	0.01	2.00	15.00	2RDR
2,4'-DDE	5.2e-002	5.e-002	7674000.0	0.01	4.00	15.00	2RDR
trans-nonachlor	5.23e-002	5.e-002	11283000	0.01	4.60	15.00	2RDR
2,4'-DDD	5.23e-002	5.e-002	6083400.0	0.01	4.60	15.00	2RDR
2,4'-DDT	5.23e-002	5.e-002	7585700.0	0.01	4.60	15.00	2RDR
cis-nonachlor	5.05e-002	5.e-002	10974000	0.01	1.00	15.00	2RDR
Mirex	5.28e-002	5.e-002	5076700.0	0.01	5.60	15.00	2RDR
hexachlorobenzene	5.22e-002	5.e-002	16034000	0.01	4.40	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0019

Lab File ID: 1EE00102 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1737

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.93e-002	5.e-002	17218000	0.01	18.60	15.00	2RDR	<-
gamma BHC	6.03e-002	5.e-002	15905000	0.01	20.60	15.00	2RDR	<-
Heptachlor	5.73e-002	5.e-002	13294000	0.01	14.60	15.00	2RDR	
beta-BHC	6.06e-002	5.e-002	6493600.0	0.01	21.20	15.00	2RDR	<-
Aldrin	5.64e-002	5.e-002	12504000	0.01	12.80	15.00	2RDR	
delta-BHC	6.69e-002	5.e-002	11514000	0.01	33.80	15.00	2RDR	<-
Heptachlor Epoxide	5.39e-002	5.e-002	11348000	0.01	7.80	15.00	2RDR	
Endosulfan I	5.07e-002	5.e-002	9811700.0	0.01	1.40	15.00	2RDR	
4,4'-DDE	4.96e-002	5.e-002	10987000	0.01	-0.80	15.00	2RDR	
Dieldrin	5.26e-002	5.e-002	10647000	0.01	5.20	15.00	2RDR	
Endrin	5.83e-002	5.e-002	9140200.0	0.01	16.60	15.00	2RDR	<-
4,4'-DDD	5.12e-002	5.e-002	8124200.0	0.01	2.40	15.00	2RDR	
Endosulfan II	4.97e-002	5.e-002	8610600.0	0.01	-0.60	15.00	2RDR	
4,4'-DDT	4.67e-002	5.e-002	8206400.0	0.01	-6.60	15.00	2RDR	
Endrin Aldehyde	4.85e-002	5.e-002	6634700.0	0.01	-3.00	15.00	2RDR	
Endosulfan sulfate	5.15e-002	5.e-002	5877300.0	0.01	3.00	15.00	2RDR	
Methoxychlor	4.78e-002	5.e-002	4061800.0	0.01	-4.40	15.00	2RDR	
alpha-Chlordane	4.91e-002	5.e-002	10257000	0.01	-1.80	15.00	2RDR	
gamma-Chlordane	5.18e-002	5.e-002	10944000	0.01	3.60	15.00	2RDR	
Endrin Ketone	5.33e-002	5.e-002	7704600.0	0.01	6.60	15.00	2RDR	
Tetrachloro-m-Xylene	6.09e-002	5.e-002	11852000	0.01	21.80	15.00	2RDR	<-
Decachlorobiphenyl	4.85e-002	5.e-002	4823600.0	0.01	-3.00	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0036

Lab File ID: 1EE00103 Init. Calib. Date(s): 05/04/11 05/04/11

Init. Calib. Times: 1552 1720

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
oxychlordane	5.31e-002	5.e-002	9525900.0	0.01	6.20	15.00	2RDR
2,4'-DDE	5.35e-002	5.e-002	7674000.0	0.01	7.00	15.00	2RDR
trans-nonachlor	5.43e-002	5.e-002	11283000	0.01	8.60	15.00	2RDR
2,4'-DDD	5.38e-002	5.e-002	6083400.0	0.01	7.60	15.00	2RDR
2,4'-DDT	5.3e-002	5.e-002	7585700.0	0.01	6.00	15.00	2RDR
cis-nonachlor	5.26e-002	5.e-002	10974000	0.01	5.20	15.00	2RDR
Mirex	5.5e-002	5.e-002	5076700.0	0.01	10.00	15.00	2RDR
hexachlorobenzene	5.45e-002	5.e-002	16034000	0.01	9.00	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0314

Lab File ID: 1EE00112 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1737

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF3e-002 or AMOUNT	CCAL RRF3e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	3.01e-002	2.5e-002	17218000	0.01	20.40	15.00	2RDR	<-
gamma BHC	3.03e-002	2.5e-002	15905000	0.01	21.20	15.00	2RDR	<-
Heptachlor	2.73e-002	2.5e-002	13294000	0.01	9.20	15.00	2RDR	
beta-BHC	2.96e-002	2.5e-002	6493600.0	0.01	18.40	15.00	2RDR	<-
Aldrin	2.79e-002	2.5e-002	12504000	0.01	11.60	15.00	2RDR	
delta-BHC	3.26e-002	2.5e-002	11514000	0.01	30.40	15.00	2RDR	<-
Heptachlor Epoxide	2.74e-002	2.5e-002	11348000	0.01	9.60	15.00	2RDR	
Endosulfan I	2.7e-002	2.5e-002	9811700.0	0.01	8.00	15.00	2RDR	
4,4'-DDE	2.56e-002	2.5e-002	10987000	0.01	2.40	15.00	2RDR	
Dieldrin	2.61e-002	2.5e-002	10647000	0.01	4.40	15.00	2RDR	
Endrin	2.84e-002	2.5e-002	9140200.0	0.01	13.60	15.00	2RDR	
4,4'-DDD	2.48e-002	2.5e-002	8124200.0	0.01	-0.80	15.00	2RDR	
Endosulfan II	2.51e-002	2.5e-002	8610600.0	0.01	0.40	15.00	2RDR	
4,4'-DDT	2.39e-002	2.5e-002	8206400.0	0.01	-4.40	15.00	2RDR	
Endrin Aldehyde	2.38e-002	2.5e-002	6634700.0	0.01	-4.80	15.00	2RDR	
Endosulfan sulfate	2.53e-002	2.5e-002	5877300.0	0.01	1.20	15.00	2RDR	
Methoxychlor	2.42e-002	2.5e-002	4061800.0	0.01	-3.20	15.00	2RDR	
alpha-Chlordane	2.68e-002	2.5e-002	10257000	0.01	7.20	15.00	2RDR	
gamma-Chlordane	2.69e-002	2.5e-002	10944000	0.01	7.60	15.00	2RDR	
Endrin Ketone	2.53e-002	2.5e-002	7704600.0	0.01	1.20	15.00	2RDR	
Tetrachloro-m-Xylene	3.09e-002	2.5e-002	11852000	0.01	23.60	15.00	2RDR	<-
Decachlorobiphenyl	2.49e-002	2.5e-002	4823600.0	0.01	-0.40	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0331

Lab File ID: 1EE00113 Init. Calib. Date(s): 05/04/11 05/04/11

Init. Calib. Times: 1552 1720

GC Column: ZB-MULTIRESIDUE-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
oxychlordane	5.59e-002	5.e-002	9525900.0	0.01	11.80	15.00	2RDR	
2,4'-DDE	5.73e-002	5.e-002	7674000.0	0.01	14.60	15.00	2RDR	
trans-nonachlor	5.74e-002	5.e-002	11283000	0.01	14.80	15.00	2RDR	
2,4'-DDD	5.68e-002	5.e-002	6083400.0	0.01	13.60	15.00	2RDR	
2,4'-DDT	5.62e-002	5.e-002	7585700.0	0.01	12.40	15.00	2RDR	
cis-nonachlor	5.67e-002	5.e-002	10974000	0.01	13.40	15.00	2RDR	
Mirex	5.81e-002	5.e-002	5076700.0	0.01	16.20	15.00	2RDR	<-
hexachlorobenzene	5.8e-002	5.e-002	16034000	0.01	16.00	15.00	2RDR	<-

FORM VII PEST

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.83 DCB: 12.12

1527

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	WG90673-BLAN	WG90673-1	05/04/11	1755	3.83	12.11
02	WG90673-LCS	WG90673-2	05/04/11	1812	3.83	12.11
03	WG90673-LCSD	WG90673-3	05/04/11	1830	3.83	12.11
04	WG90797-BLAN	WG90797-1	05/04/11	1847	3.83	12.11
05	WG90797-LCS	WG90797-2	05/04/11	1905	3.83	12.12
06	WG90797-LCSD	WG90797-3	05/04/11	1922	3.83	12.11
07	OU4-SD-M08-1	WG90797-4	05/04/11	1940	3.83	12.11
08	OU4-SD-M08-1	~~WG90797-5~~	~~05/04/11~~	~~1957~~	3.83	12.11
09		INDAB 0.025	05/04/11	2049	3.83	12.11
10		~~EXTRA PEST 0~~	~~05/04/11~~	~~2107~~		
11	OU4-RB-04201	SE2074-32	05/04/11	2124	3.83	12.11
12	OU4-SB-04201	SE2074-33	05/04/11	2142	3.83	12.11
13	OU4-SD-M09-2	SE2074-11	05/04/11	2159	3.83	12.11
14	OU4-SD-M09-3	SE2074-12	05/04/11	2217	3.83	12.11
15	OU4-SD-M08-2	SE2074-13	05/04/11	2234	3.83	12.11
16	OU4-SD-M07-2	SE2074-14	05/04/11	2252	3.83	12.11
17	OU4-SD-M07-3	SE2074-15	05/04/11	2309	3.83	12.11
18	OU4-SD-M07-1	SE2074-26	05/04/11	2327	3.83	12.11
19	OU4-SD-M08-3	SE2074-27	05/04/11	2344	3.83	12.11
20	OU4-SD-FD-04	SE2074-28	05/05/11	0002	3.83	12.11

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm) Init. Calib. Date(s): 03/14/11 05/04/11

Instrument ID: GC01

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.83 DCB: 12.12

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01		INDAB 0.05	05/05/11	0019	3.83	12.11
02		EXTRA PEST 0	05/05/11	0036		
03	OU4-SD-M08-1	SE2074-29	05/05/11	0054	3.83	12.11
04	OU4-SD-M09-1	SE2074-30	05/05/11	0111	3.83	12.11
05		INDAB 0.025	05/05/11	0314	3.83	12.11
06		EXTRA PEST 0	05/05/11	0331		
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PESTICIDE

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/04/11 Time: 1524

Lab File ID: 1EE00072 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.25e-002	5.e-002	12109000	0.01	5.00	15.00	2RDR	
gamma BHC	5.09e-002	5.e-002	10964000	0.01	1.80	15.00	2RDR	
Heptachlor	5.17e-002	5.e-002	9126300.0	0.01	3.40	15.00	2RDR	
beta-BHC	5.11e-002	5.e-002	4452600.0	0.01	2.20	15.00	2RDR	
Aldrin	4.98e-002	5.e-002	8959400.0	0.01	-0.40	15.00	2RDR	
delta-BHC	4.99e-002	5.e-002	7150600.0	0.01	-0.20	15.00	2RDR	
Heptachlor Epoxide	4.93e-002	5.e-002	8080100.0	0.01	-1.40	15.00	2RDR	
Endosulfan I	4.8e-002	5.e-002	6951100.0	0.01	-4.00	15.00	2RDR	
4,4'-DDE	4.64e-002	5.e-002	7758000.0	0.01	-7.20	15.00	2RDR	
Dieldrin	4.84e-002	5.e-002	7597000.0	0.01	-3.20	15.00	2RDR	
Endrin	5.56e-002	5.e-002	6398700.0	0.01	11.20	15.00	2RDR	
4,4'-DDD	4.44e-002	5.e-002	5716900.0	0.01	-11.20	15.00	2RDR	
Endosulfan II	4.46e-002	5.e-002	5945900.0	0.01	-10.80	15.00	2RDR	
4,4'-DDT	4.5e-002	5.e-002	5915700.0	0.01	-10.00	15.00	2RDR	
Endrin Aldehyde	4.25e-002	5.e-002	4482000.0	0.01	-15.00	15.00	2RDR	
Endosulfan sulfate	4.23e-002	5.e-002	3649100.0	0.01	-15.40	15.00	2RDR	<-
Methoxychlor	4.42e-002	5.e-002	2798600.0	0.01	-11.60	15.00	2RDR	
alpha-Chlordane	4.66e-002	5.e-002	7157000.0	0.01	-6.80	15.00	2RDR	
gamma-Chlordane	4.99e-002	5.e-002	7936100.0	0.01	-0.20	15.00	2RDR	
Endrin Ketone	4.39e-002	5.e-002	4776500.0	0.01	-12.20	15.00	2RDR	
Tetrachloro-m-Xylene	5.41e-002	5.e-002	7947900.0	0.01	8.20	15.00	2RDR	
Decachlorobiphenyl	4.36e-002	5.e-002	3296400.0	0.01	-12.80	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/04/11 Time: 2049

Lab File ID: 1EE00090 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF3e-002 or AMOUNT	CCAL RRF3e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	2.61e-002	2.5e-002	11793000	0.01	4.40	15.00	2RDR
gamma BHC	2.57e-002	2.5e-002	10885000	0.01	2.80	15.00	2RDR
Heptachlor	2.58e-002	2.5e-002	8878700.0	0.01	3.20	15.00	2RDR
beta-BHC	2.56e-002	2.5e-002	4413800.0	0.01	2.40	15.00	2RDR
Aldrin	2.5e-002	2.5e-002	8841600.0	0.01	0.00	15.00	2RDR
delta-BHC	2.62e-002	2.5e-002	7217200.0	0.01	4.80	15.00	2RDR
Heptachlor Epoxide	2.39e-002	2.5e-002	7745100.0	0.01	-4.40	15.00	2RDR
Endosulfan I	2.38e-002	2.5e-002	6835000.0	0.01	-4.80	15.00	2RDR
4,4'-DDE	2.31e-002	2.5e-002	7597300.0	0.01	-7.60	15.00	2RDR
Dieldrin	2.42e-002	2.5e-002	7527500.0	0.01	-3.20	15.00	2RDR
Endrin	2.82e-002	2.5e-002	6358100.0	0.01	12.80	15.00	2RDR
4,4'-DDD	2.2e-002	2.5e-002	5578600.0	0.01	-12.00	15.00	2RDR
Endosulfan II	2.24e-002	2.5e-002	5889100.0	0.01	-10.40	15.00	2RDR
4,4'-DDT	2.21e-002	2.5e-002	5695600.0	0.01	-11.60	15.00	2RDR
Endrin Aldehyde	2.14e-002	2.5e-002	4438900.0	0.01	-14.40	15.00	2RDR
Endosulfan sulfate	2.27e-002	2.5e-002	3802500.0	0.01	-9.20	15.00	2RDR
Methoxychlor	2.22e-002	2.5e-002	2795200.0	0.01	-11.20	15.00	2RDR
alpha-Chlordane	2.36e-002	2.5e-002	7184500.0	0.01	-5.60	15.00	2RDR
gamma-Chlordane	2.39e-002	2.5e-002	7538700.0	0.01	-4.40	15.00	2RDR
Endrin Ketone	2.35e-002	2.5e-002	5055000.0	0.01	-6.00	15.00	2RDR
Tetrachloro-m-Xylene	2.71e-002	2.5e-002	7896100.0	0.01	8.40	15.00	2RDR
Decachlorobiphenyl	2.26e-002	2.5e-002	3431100.0	0.01	-9.60	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/04/11 Time: 2107

Lab File ID: 1EE00091 Init. Calib. Date(s): 05/04/11 05/04/11

Init. Calib. Times: 1552 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
oxychlordane	5.12e-002	5.e-002	6220900.0	0.01	2.40	15.00	2RDR
2,4'-DDE	4.98e-002	5.e-002	4827400.0	0.01	-0.40	15.00	2RDR
trans-nonachlor	5.08e-002	5.e-002	7401000.0	0.01	1.60	15.00	2RDR
2,4'-DDD	5.08e-002	5.e-002	3811400.0	0.01	1.60	15.00	2RDR
2,4'-DDT	5.05e-002	5.e-002	4903000.0	0.01	1.00	15.00	2RDR
cis-nonachlor	5.12e-002	5.e-002	7137000.0	0.01	2.40	15.00	2RDR
Mirex	5.15e-002	5.e-002	3379000.0	0.01	3.00	15.00	2RDR
hexachlorobenzene	5.06e-002	5.e-002	10109000	0.01	1.20	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0019

Lab File ID: 1EE00102 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	5.27e-002	5.e-002	12155000	0.01	5.40	15.00	2RDR	
gamma BHC	5.3e-002	5.e-002	11404000	0.01	6.00	15.00	2RDR	
Heptachlor	5.28e-002	5.e-002	9307100.0	0.01	5.60	15.00	2RDR	
beta-BHC	5.09e-002	5.e-002	4440900.0	0.01	1.80	15.00	2RDR	
Aldrin	4.92e-002	5.e-002	8858200.0	0.01	-1.60	15.00	2RDR	
delta-BHC	5.76e-002	5.e-002	8310700.0	0.01	15.20	15.00	2RDR	<-
Heptachlor Epoxide	4.89e-002	5.e-002	8017600.0	0.01	-2.20	15.00	2RDR	
Endosulfan I	4.74e-002	5.e-002	6872300.0	0.01	-5.20	15.00	2RDR	
4,4'-DDE	4.46e-002	5.e-002	7462000.0	0.01	-10.80	15.00	2RDR	
Dieldrin	4.86e-002	5.e-002	7628900.0	0.01	-2.80	15.00	2RDR	
Endrin	5.78e-002	5.e-002	6654700.0	0.01	15.60	15.00	2RDR	<-
4,4'-DDD	4.57e-002	5.e-002	5897200.0	0.01	-8.60	15.00	2RDR	
Endosulfan II	4.58e-002	5.e-002	6099900.0	0.01	-8.40	15.00	2RDR	
4,4'-DDT	4.25e-002	5.e-002	5585900.0	0.01	-15.00	15.00	2RDR	
Endrin Aldehyde	4.21e-002	5.e-002	4441900.0	0.01	-15.80	15.00	2RDR	<-
Endosulfan sulfate	4.75e-002	5.e-002	4122700.0	0.01	-5.00	15.00	2RDR	
Methoxychlor	4.31e-002	5.e-002	2728300.0	0.01	-13.80	15.00	2RDR	
alpha-Chlordane	4.73e-002	5.e-002	7275900.0	0.01	-5.40	15.00	2RDR	
gamma-Chlordane	4.84e-002	5.e-002	7699400.0	0.01	-3.20	15.00	2RDR	
Endrin Ketone	5.07e-002	5.e-002	5529400.0	0.01	1.40	15.00	2RDR	
Tetrachloro-m-Xylene	5.49e-002	5.e-002	8068800.0	0.01	9.80	15.00	2RDR	
Decachlorobiphenyl	4.42e-002	5.e-002	3342600.0	0.01	-11.60	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0036

Lab File ID: 1EE00103 Init. Calib. Date(s): 05/04/11 05/04/11

Init. Calib. Times: 1552 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
oxychlordane	5.1e-002	5.e-002	6190600.0	0.01	2.00	15.00	2RDR
2,4'-DDE	4.95e-002	5.e-002	4794400.0	0.01	-1.00	15.00	2RDR
trans-nonachlor	4.93e-002	5.e-002	7179500.0	0.01	-1.40	15.00	2RDR
2,4'-DDD	5.11e-002	5.e-002	3834600.0	0.01	2.20	15.00	2RDR
2,4'-DDT	4.91e-002	5.e-002	4764700.0	0.01	-1.80	15.00	2RDR
cis-nonachlor	5.25e-002	5.e-002	7321600.0	0.01	5.00	15.00	2RDR
Mirex	5.22e-002	5.e-002	3428900.0	0.01	4.40	15.00	2RDR
hexachlorobenzene	5.18e-002	5.e-002	10340000	0.01	3.60	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0314

Lab File ID: 1EE00112 Init. Calib. Date(s): 03/14/11 05/04/11

Init. Calib. Times: 1653 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF3e-002 or AMOUNT	CCAL RRF3e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	2.59e-002	2.5e-002	11686000	0.01	3.60	15.00	2RDR	
gamma BHC	2.56e-002	2.5e-002	10843000	0.01	2.40	15.00	2RDR	
Heptachlor	2.53e-002	2.5e-002	8715900.0	0.01	1.20	15.00	2RDR	
beta-BHC	2.53e-002	2.5e-002	4362400.0	0.01	1.20	15.00	2RDR	
Aldrin	2.43e-002	2.5e-002	8582500.0	0.01	-2.80	15.00	2RDR	
delta-BHC	2.74e-002	2.5e-002	7575900.0	0.01	9.60	15.00	2RDR	
Heptachlor Epoxide	2.41e-002	2.5e-002	7809100.0	0.01	-3.60	15.00	2RDR	
Endosulfan I	2.32e-002	2.5e-002	6659300.0	0.01	-7.20	15.00	2RDR	
4,4'-DDE	2.24e-002	2.5e-002	7369900.0	0.01	-10.40	15.00	2RDR	
Dieldrin	2.4e-002	2.5e-002	7433800.0	0.01	-4.00	15.00	2RDR	
Endrin	2.77e-002	2.5e-002	6231100.0	0.01	10.80	15.00	2RDR	
4,4'-DDD	2.25e-002	2.5e-002	5717600.0	0.01	-10.00	15.00	2RDR	
Endosulfan II	2.23e-002	2.5e-002	5875100.0	0.01	-10.80	15.00	2RDR	
4,4'-DDT	2.19e-002	2.5e-002	5635200.0	0.01	-12.40	15.00	2RDR	
Endrin Aldehyde	2.07e-002	2.5e-002	4292300.0	0.01	-17.20	15.00	2RDR	<-
Endosulfan sulfate	2.34e-002	2.5e-002	3920400.0	0.01	-6.40	15.00	2RDR	
Methoxychlor	2.12e-002	2.5e-002	2675100.0	0.01	-15.20	15.00	2RDR	<-
alpha-Chlordane	2.34e-002	2.5e-002	7105300.0	0.01	-6.40	15.00	2RDR	
gamma-Chlordane	2.33e-002	2.5e-002	7336500.0	0.01	-6.80	15.00	2RDR	
Endrin Ketone	2.47e-002	2.5e-002	5320200.0	0.01	-1.20	15.00	2RDR	
Tetrachloro-m-Xylene	2.7e-002	2.5e-002	7860300.0	0.01	8.00	15.00	2RDR	
Decachlorobiphenyl	2.23e-002	2.5e-002	3380400.0	0.01	-10.80	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC01 Calibration Date: 05/05/11 Time: 0331

Lab File ID: 1EE00113 Init. Calib. Date(s): 05/04/11 05/04/11

Init. Calib. Times: 1552 1720

GC Column: ZB-MULTIRESIDUE-2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
oxychlordane	5.45e-002	5.e-002	6633100.0	0.01	9.00	15.00	2RDR
2,4'-DDE	5.45e-002	5.e-002	5292800.0	0.01	9.00	15.00	2RDR
trans-nonachlor	5.38e-002	5.e-002	7852000.0	0.01	7.60	15.00	2RDR
2,4'-DDD	5.45e-002	5.e-002	4094800.0	0.01	9.00	15.00	2RDR
2,4'-DDT	5.32e-002	5.e-002	5172600.0	0.01	6.40	15.00	2RDR
cis-nonachlor	5.49e-002	5.e-002	7661800.0	0.01	9.80	15.00	2RDR
Mirex	5.55e-002	5.e-002	3643300.0	0.01	11.00	15.00	2RDR
hexachlorobenzene	5.48e-002	5.e-002	10936000	0.01	9.60	15.00	2RDR

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90673-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab Sample ID: WG90673-1 Lab File ID: 1EE00080

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SW846 3510

Sulfur Cleanup: (Y/N) N Date Extracted: 04/25/11

Date Analyzed (1): 05/04/11 Date Analyzed (2): 05/04/11

Time Analyzed (1): 1755 Time Analyzed (2): 1755

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column (1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column (2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG90673-LCS	WG90673-2	1EE00081	05/04/11	05/04/11
02	WG90673-LCSD	WG90673-3	1EE00082	05/04/11	05/04/11
03	OU4-RB-042011-01	SE2074-32	1EE00092	05/04/11	05/04/11
04	OU4-SB-042011-01	SE2074-33	1EE00093	05/04/11	05/04/11
05					
06					
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COMMENTS:

FORM IVPESTICIDE

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90673-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 25-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90673

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: AQ
% Solids: NA
Report Date: 03-jun-2011 10:02

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	0.025	ug/L	1	.05	0.050	0.0069	0.025
Gamma-BHC	U	0.025	ug/L	1	.05	0.050	0.0072	0.025
Heptachlor	U	0.025	ug/L	1	.05	0.050	0.0080	0.025
Aldrin	U	0.025	ug/L	1	.05	0.050	0.0074	0.025
beta-BHC	U	0.025	ug/L	1	.05	0.050	0.0063	0.025
delta-BHC	U	0.025	ug/L	1	.05	0.050	0.013	0.025
Heptachlor epoxide	U	0.025	ug/L	1	.05	0.050	0.0074	0.025
Gamma-Chlordane	U	0.025	ug/L	1	.05	0.050	0.0060	0.025
Alpha-Chlordane	U	0.025	ug/L	1	.05	0.050	0.0076	0.025
4,4'-DDE	U	0.050	ug/L	1	.1	0.10	0.0049	0.050
Dieldrin	U	0.050	ug/L	1	.1	0.10	0.0065	0.050
Endrin	U	0.050	ug/L	1	.1	0.10	0.0084	0.050
4,4'-DDD	U	0.050	ug/L	1	.1	0.10	0.0090	0.050
Endosulfan II	U	0.050	ug/L	1	.1	0.10	0.0057	0.050
4,4'-DDT	U	0.050	ug/L	1	.1	0.10	0.0089	0.050
2,4'-DDD	U	0.050	ug/L	1	.1	0.10	0.024	0.050
2,4'-DDE	U	0.050	ug/L	1	.1	0.10	0.023	0.050
2,4'-DDT	U	0.050	ug/L	1	.1	0.10	0.023	0.050
Mirex	U	0.050	ug/L	1	.1	0.10	0.029	0.050
cis-Nonachlor	U	0.050	ug/L	1	.1	0.10	0.025	0.050
trans-Nonachlor	U	0.050	ug/L	1	.1	0.10	0.015	0.050
Oxychlordane	U	0.050	ug/L	1	.1	0.10	0.026	0.050
Hexachlorobenzene	U	0.050	ug/L	1	.1	0.10	0.014	0.050
Tetrachloro-M-Xylene		86.5	%					
Decachlorobiphenyl		47.2	%					

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ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90673-2
LCSD ID: WG90673-3
Project:
SDG: WE29-1
Report Date: 03-jun-2011 10:05

Received Date: 25-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90673

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
alpha-BHC	0.500	0.509	102.	0.518	104.*	ug/L	2	30	66-104
Gamma-BHC	0.500	0.508	102.	0.506	101.	ug/L	0	30	67-105
Heptachlor	0.500	0.482	96.4	0.490	98.0	ug/L	2	30	55-110
Aldrin	0.500	0.462	92.4	0.484	96.8	ug/L	5	30	58-98
beta-BHC	0.500	0.534	107.	0.544	109.	ug/L	2	30	68-115
delta-BHC	0.500	0.524	105.	0.535	107.	ug/L	2	30	61-117
Heptachlor Epoxide	0.500	0.498	99.6	0.500	100.*	ug/L	0	30	73-98
Gamma-Chlordane	0.500	0.477	95.4	0.479	95.8	ug/L	0	30	72-101
Alpha-Chlordane	0.500	J0.430	86.0	J0.446	89.2	ug/L	4	30	73-100
4,4'-DDE	0.500	0.446	89.2	0.466	93.2	ug/L	4	30	64-105
Dieldrin	0.500	J0.468	93.6	J0.478	95.6	ug/L	2	30	72-97
Endrin	0.500	J0.515	103.	J0.529	106.	ug/L	3	30	70-103
4,4'-DDD	0.500	0.452	90.4	0.451	90.2	ug/L	0	30	64-108
Endosulfan II	0.500	0.384	76.8	0.394	78.8	ug/L	2	30	50-79
4,4'-DDT	0.500	0.426	85.2	0.432	86.4	ug/L	1	30	51-103
2,4'-DDD	0.500	J0.504	101.	J0.514	103.	ug/L	2	30	50-120
2,4'-DDE	0.500	0.434	86.8	0.452	90.4	ug/L	4	30	50-120
2,4'-DDT	0.500	J0.458	91.6	J0.472	94.4	ug/L	3	30	50-120
Mirex	0.500	0.442	88.4	0.472	94.4	ug/L	6	30	50-120
cis-Nonachlor	0.500	0.451	90.2	0.458	91.6	ug/L	2	30	50-120
trans-Nonachlor	0.500	J0.443	88.6	J0.449	89.8	ug/L	1	30	50-120
Oxychlordane	0.500	0.498	99.6	0.515	103.	ug/L	3	30	50-120
Hexachlorobenzene	0.500	0.439	87.8	0.441	88.2	ug/L	0	30	50-120
Tetrachloro-M-Xylene			103.		102.				48-112
Decachlorobiphenyl			72.4		73.1				41-131

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FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90797-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab Sample ID: WG90797-1 Lab File ID: 1EE00083

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3540

Sulfur Cleanup: (Y/N) N Date Extracted: 04/28/11

Date Analyzed (1): 05/04/11 Date Analyzed (2): 05/04/11

Time Analyzed (1): 1847 Time Analyzed (2): 1847

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column (1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column (2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG90797-LCS	WG90797-2	1EE00084	05/04/11	05/04/11
02	WG90797-LCSD	WG90797-3	1EE00085	05/04/11	05/04/11
03	OU4-SD-M08-111BMS	WG90797-4	1EE00086	05/04/11	05/04/11
04	OU4-SD-M08-111BMSD	WG90797-5	1EE00087	05/04/11	05/04/11
05	OU4-SD-M09-211B	SE2074-11	1EE00094	05/04/11	05/04/11
06	OU4-SD-M09-311B	SE2074-12	1EE00095	05/04/11	05/04/11
07	OU4-SD-M08-211B	SE2074-13	1EE00096	05/04/11	05/04/11
08	OU4-SD-M07-211B	SE2074-14	1EE00097	05/04/11	05/04/11
09	OU4-SD-M07-311B	SE2074-15	1EE00098	05/04/11	05/04/11
10	OU4-SD-M07-111B	SE2074-26	1EE00099	05/04/11	05/04/11
11	OU4-SD-M08-311B	SE2074-27	1EE00100	05/04/11	05/04/11
12	OU4-SD-FD-041911-03	SE2074-28	1EE00101	05/05/11	05/05/11
13	OU4-SD-M08-111B	SE2074-29	1EE00104	05/05/11	05/05/11
14	OU4-SD-M09-111B	SE2074-30	1EE00105	05/05/11	05/05/11
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COMMENTS:

FORM IVPESTICIDE

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90797-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 28-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: NA
Report Date: 03-jun-2011 10:03

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
alpha-BHC	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.34	0.85
gamma-BHC	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.27	0.85
Heptachlor	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.29	0.85
Aldrin	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.28	0.85
beta-BHC	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.33	0.85
delta-BHC	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.32	0.85
Heptachlor Epoxid	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.22	0.85
Gamma-Chlordane	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.23	0.85
Alpha-Chlordane	U	0.85	ug/Kgdrywt	1	1.7	1.7	0.21	0.85
4,4'-DDE	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.19	1.6
Dieldrin	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.22	1.6
Endrin	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.85	1.6
4,4'-DDD	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.20	1.6
Endosulfan II	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.34	1.6
4,4'-DDT	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.31	1.6
2,4'-DDD	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.13	1.6
2,4'-DDE	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.16	1.6
2,4'-DDT	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.16	1.6
Mirex	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.17	1.6
cis-Nonachlor	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.14	1.6
trans-Nonachlor	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.080	1.6
Oxychlordane	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.19	1.6
Hexachlorobenzene	U	1.6	ug/Kgdrywt	1	3.3	3.3	0.13	1.6
Tetrachloro-M-Xylene		60.7	%					
Decachlorobiphenyl		64.3	%					

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ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90797-2
LCSD ID: WG90797-3
Project:
SDG: WE29-1
Report Date: 03-jun-2011 10:04

Received Date: 28-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
alpha-BHC	16.7	10.2	61.1	13.6	81.4	ug/Kgdrywt	28	50	31-128
gamma-BHC	16.7	10.6	63.5	13.5	80.8	ug/Kgdrywt	24	50	47-98
Heptachlor	16.7	10.0	59.9	13.0	77.8	ug/Kgdrywt	26	50	47-101
Aldrin	16.7	10.4	62.3	13.2	79.0	ug/Kgdrywt	24	50	46-91
beta-BHC	16.7	13.2	79.0	14.6	87.4	ug/Kgdrywt	10	50	53-106
delta-BHC	16.7	13.0	77.8	14.4	86.2	ug/Kgdrywt	10	50	34-123
Heptachlor Epoxide	16.7	11.8	70.6	13.4	80.2	ug/Kgdrywt	13	50	50-96
Gamma-Chlordane	16.7	12.0	71.8	13.1	78.4	ug/Kgdrywt	9	50	54-96
Alpha-Chlordane	16.7	J11.1	66.5	J11.9	71.2	ug/Kgdrywt	7	50	32-131
4,4'-DDE	16.7	11.9	71.2	12.6	75.4	ug/Kgdrywt	6	50	52-103
Dieldrin	16.7	J11.6	69.5	J12.7	76.0	ug/Kgdrywt	9	50	39-115
Endrin	16.7	J13.2	79.0	J14.3	85.6	ug/Kgdrywt	8	50	19-148
4,4'-DDD	16.7	12.1	72.4	12.2	73.0	ug/Kgdrywt	1	50	48-111
Endosulfan II	16.7	9.87	59.1	10.4	62.3	ug/Kgdrywt	5	50	33-87
4,4'-DDT	16.7	11.2	67.1	12.1	72.4	ug/Kgdrywt	8	50	39-112
2,4'-DDD	16.7	J13.6	81.4	J14.0	83.8	ug/Kgdrywt	3	50	50-120
2,4'-DDE	16.7	11.5	68.9	12.5	74.8	ug/Kgdrywt	8	50	50-120
2,4'-DDT	16.7	J12.3	73.6	J13.1	78.4	ug/Kgdrywt	6	50	50-120
Mirex	16.7	12.9	77.2	13.3	79.6	ug/Kgdrywt	3	50	50-120
cis-Nonachlor	16.7	12.1	72.4	12.6	75.4	ug/Kgdrywt	6	50	50-120
trans-Nonachlor	16.7	J11.5	68.9	J13.0	77.8	ug/Kgdrywt	12	50	50-120
Oxychlordane	16.7	12.0	71.8	14.0	83.8	ug/Kgdrywt	16	50	50-120
Hexachlorobenzene	16.7	9.01	54.0	12.5	74.8	ug/Kgdrywt	32	50	50-120
Tetrachloro-M-Xylene			60.1		82.9				32-89
Decachlorobiphenyl			71.2		72.7				44-99

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ANALYTICAL SERVICES

Cert No E87604

MS/MSD Recovery Report

MS ID: WG90797-4
MSD ID: WG90797-5
Sample ID: SE2074-29
Client ID: OU4-SD-M08-111B
Project:
SDG: WE29-1

Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KF
Extraction Method: SW846 3540
Lab Prep Batch: WG90797
Report Date: 06-JUN-11

Analysis Date: 04-MAY-11
Analyst: CB
Analysis Method: SW846 8081A
Matrix: SL
% Solids: 68.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
alpha-BHC	24.7	24.4	ug/Kgdrywt	U1.2	19.	21.	76.9	85.7	10	50	31-128
gamma-BHC	24.7	24.4	ug/Kgdrywt	U1.2	19.	21.	76.9	86.1	10	50	47-98
Heptachlor	24.7	24.4	ug/Kgdrywt	U1.2	17.	20.	69.2	84.0	20	50	47-101
Aldrin	24.7	24.4	ug/Kgdrywt	U1.2	18.	20.	72.4	80.0	8	50	46-91
beta-BHC	24.7	24.4	ug/Kgdrywt	U1.2	J29.	J38.	116.	155.	27	50	53-106
delta-BHC	24.7	24.4	ug/Kgdrywt	U1.2	26.	28.	104.	116.	9	50	34-123
Heptachlor Epoxide	24.7	24.4	ug/Kgdrywt	J0.70	19.	20.	67.7	72.7	5	50	50-96
Gamma-Chlordane	24.7	24.4	ug/Kgdrywt	U1.2	19.	20.	75.3	82.8	8	50	54-96
Alpha-Chlordane	24.7	24.4	ug/Kgdrywt	U1.2	J17.	J18.	68.4	73.4	6	50	32-131
4,4'-DDE	24.7	24.4	ug/Kgdrywt	JJ2.8	20.	20.	73.4	78.1	4	50	52-103
Dieldrin	24.7	24.4	ug/Kgdrywt	U2.4	J18.	J19.	71.6	77.1	6	50	39-115
Endrin	24.7	24.4	ug/Kgdrywt	U2.4	J20.	J21.	80.1	87.8	8	50	19-148
4,4'-DDD	24.7	24.4	ug/Kgdrywt	16.	33.	33.	129.*	131.*	0	50	48-111
Endosulfan II	24.7	24.4	ug/Kgdrywt	U2.4	15.	16.	59.5	64.0	6	50	33-87
4,4'-DDT	24.7	24.4	ug/Kgdrywt	J2.7	12.	20.	47.1	77.3	45	50	39-112
2,4'-DDD	24.7	24.4	ug/Kgdrywt	6.0	J26.	J26.	84.6	87.4	2	50	50-120
2,4'-DDE	24.7	24.4	ug/Kgdrywt	U2.4	18.	21.	71.2	86.1	18	50	50-120
2,4'-DDT	24.7	24.4	ug/Kgdrywt	U2.4	J13.	J19.	54.2	79.5	36	50	50-120
Mirex	24.7	24.4	ug/Kgdrywt	U2.4	18.	20.	74.4	80.8	7	50	50-120
cis-Nonachlor	24.7	24.4	ug/Kgdrywt	U2.4	18.	19.	71.2	77.9	8	50	50-120
trans-Nonachlor	24.7	24.4	ug/Kgdrywt	U2.4	J17.	J19.	70.4	78.7	10	50	50-120
Oxychlordane	24.7	24.4	ug/Kgdrywt	U2.4	20.	21.	79.3	85.7	10	50	50-120
Hexachlorobenzene	24.7	24.4	ug/Kgdrywt	J0.60	17.	19.	67.7	75.1	9	50	50-120
Tetrachloro-M-Xylene							74.0	82.5			32-89
Decachlorobiphenyl							65.7	72.6			44-99

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http://www.katahdinlab.com

FORM 2
SOIL PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: JOINT BASE CHARLESTON CTO 028 SDG No.: WE29-1

GC Column(1): ZB-MULTIRESIDUE-2ID: 0.53 (mm)GC Column(2): ZB-MULTIRESIDUE-1ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG90797-BLANK	WG90797-1	56	61	60	64			0
02	WG90797-LCS	WG90797-2	55	60	67	71			0
03	WG90797-LCSD	WG90797-3	74	83	67	73			0
04	OU4-SD-M08-111BMS	WG90797-4	70	74	64	66			0
05	OU4-SD-M08-111BMSD	WG90797-5	78	82	67	72			0
06	OU4-SD-M09-211B	SE2074-11	69	74	57	63			0
07	OU4-SD-M09-311B	SE2074-12	67	71	64	70			0
08	OU4-SD-M08-211B	SE2074-13	69	74	67	70			0
09	OU4-SD-M07-211B	SE2074-14	73	79	66	69			0
10	OU4-SD-M07-311B	SE2074-15	68	73	59	64			0
11	OU4-SD-M07-111B	SE2074-26	75	82	68	73			0
12	OU4-SD-M08-311B	SE2074-27	70	75	63	69			0
13	OU4-SD-FD-041911-03	SE2074-28	71	76	63	70			0
14	OU4-SD-M08-111B	SE2074-29	74	79	64	70			0
15	OU4-SD-M09-111B	SE2074-30	61	67	72	78			0
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-Xylene (32- 89)
S2 (DCB) = Decachlorobiphenyl (44- 99)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
WATER PESTICIDE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES\P Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column(1): ZB-MULTIRESIDUE-2ID: 0.53 (mm) GC Column(2): ZB-MULTIRESIDUE-1ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG90673-BLANK	WG90673-1	86	92	47	50			0
02	WG90673-LCS	WG90673-2	95	103	66	72			0
03	WG90673-LCSD	WG90673-3	94	102	67	73			0
04	OU4-RB-042011-01	SE2074-32	94	99	30*	33*			2
05	OU4-SB-042011-01	SE2074-33	95	101	55	61			0
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-Xylene	(48-112)
S2 (DCB)	= Decachlorobiphenyl	(41-131)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-FD
-041911-03

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-28 Date(s) Analyzed: 05/05/11 05/05/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor Epoxide	1	6.82	6.75	6.89	0.697	
	2	7.01	6.94	7.08	0.689	1.2
4,4'-DDE	1	7.57	7.50	7.64	1.25	
	2	7.77	7.70	7.84	1.65	27.6
4,4'-DDD	1	8.42	8.35	8.49	1.07	
	2	8.53	8.45	8.59	1.48	32.2
4,4'-DDT	1	8.81	8.74	8.88	1.54	
	2	8.98	8.91	9.05	1.63	5.7
2,4'-DDT	1	8.22	8.15	8.29	0.610	
	2	8.37	8.30	8.44	0.443	31.7
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M07-111B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-26 Date(s) Analyzed: 05/04/11 05/04/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor Epoxide	1	6.82	6.75	6.89	0.638	
	2	7.01	6.94	7.08	0.639	0.2
4,4'-DDE	1	7.57	7.50	7.64	1.55	
	2	7.77	7.70	7.84	1.91	20.8
4,4'-DDD	1	8.43	8.35	8.49	1.53	
	2	8.53	8.45	8.59	2.18	35.0
4,4'-DDT	1	8.81	8.74	8.88	3.00	
	2	8.98	8.91	9.05	3.17	5.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M07-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-14 Date(s) Analyzed: 05/04/11 05/04/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDD	1	8.43	8.35	8.49	1.36	
	2	8.53	8.45	8.59	2.63	63.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-111B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-29 Date(s) Analyzed: 05/05/11 05/05/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor Epoxide	1	6.82	6.75	6.89	0.565	
	2	7.01	6.94	7.08	0.695	20.6
4,4'-DDE	1	7.57	7.50	7.64	1.80	
	2	7.77	7.70	7.84	2.76	42.1
4,4'-DDD	1	8.42	8.35	8.49	12.2	
	2	8.53	8.45	8.59	15.5	23.8
4,4'-DDT	1	8.81	8.74	8.88	2.69	
	2	8.98	8.91	9.05	2.30	15.6
2,4'-DDD	1	7.83	7.76	7.90	5.95	
	2	7.92	7.85	7.99	5.11	15.2
hexachlorobenzene	1	4.50	4.43	4.57	0.574	
	2	4.73	4.66	4.80	0.599	4.3
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-13 Date(s) Analyzed: 05/04/11 05/04/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor Epoxide	1	6.82	6.75	6.89	0.881	
	2	7.01	6.94	7.08	1.66	61.3
4,4'-DDE	1	7.57	7.50	7.64	4.21	
	2	7.77	7.70	7.84	6.96	49.2
4,4'-DDD	1	8.42	8.35	8.49	38.3	
	2	8.52	8.45	8.59	44.5	15.0
4,4'-DDT	1	8.81	8.74	8.88	16.1	
	2	8.98	8.91	9.05	12.9	22.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-311B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-27 Date(s) Analyzed: 05/04/11 05/04/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	7.57	7.50	7.64	0.667	
	2	7.77	7.70	7.84	0.924	32.3
4,4'-DDD	1	8.43	8.35	8.49	3.52	
	2	8.53	8.45	8.59	4.22	18.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-111B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-30 Date(s) Analyzed: 05/05/11 05/05/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	7.57	7.50	7.64	1.80	
	2	7.76	7.70	7.84	3.93	74.3
4,4'-DDD	1	8.42	8.35	8.49	3.65	
	2	8.52	8.45	8.59	6.95	62.3
4,4'-DDT	1	8.81	8.74	8.88	4.10	
	2	8.98	8.91	9.05	2.63	43.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-11 Date(s) Analyzed: 05/04/11 05/04/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
hexachlorobenzene	1	4.50	4.43	4.57	2.11	
	2	4.73	4.66	4.80	1.91	10.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-311B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: JOINT BASE CHA

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-12 Date(s) Analyzed: 05/04/11 05/04/11

Instrument ID (1): GC01 Instrument ID (2): GC01

GC Column(1): ZB-MULTIRESIDUE-2 ID: 0.53(mm) GC Column(2): ZB-MULTIRESIDUE-1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	7.57	7.50	7.64	2.00	
	2	7.77	7.70	7.84	3.02	40.6
4,4'-DDD	1	8.43	8.35	8.49	2.82	
	2	8.53	8.45	8.59	5.05	56.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

PCB DATA

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.65 S2 : 5.75

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	S2 RT #
01		CONG SS 0.05	05/05/11	0924	3.64	5.74
02		CONG SS 0.00	05/05/11	0950	3.64	5.74
03		CONG SS 0.01	05/05/11	1016	3.64	5.75
04		CONG SS 0.02	05/05/11	1042	3.64	[illegible]
05		CONG SS 0.1	05/05/11	1108	3.64	5.74
06		CONG SS 0.25	05/05/11	1134	3.64	5.74
07		CONG PCB 0.0	05/05/11	1437		
08		CONG PCB 0.0	05/05/11	1503		
09		CONG PCB 0.0	05/05/11	1529		
10		CONG PCB 0.0	05/05/11	1555		
11		CONG PCB 0.1	05/05/11	1621		
12		CONG PCB 0.2	05/05/11	1647		
13		CONG IND 0.0	05/05/11	1713		
14	WG90689-BLAN	WG90689-1	05/05/11	1739	3.65	5.75
15	WG90689-LCS	WG90689-2	05/05/11	1805	3.65	5.75
16	WG90689-LCSD	WG90689-3	05/05/11	1831	3.65	5.75
17	OU4-RB-04201	SE2074-32	05/05/11	1949	3.65	5.76
18	OU4-SB-04201	SE2074-33	05/05/11	2015	3.65	5.75
19		CONG SS 0.05	05/05/11	2134	3.65	5.75
20		CONG PCB 0.0	05/05/11	2226		

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
S2 = PCB 103 (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 8

PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 9.26

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		CONG SS 0.05	05/05/11	0924	9.25	
02		CONG SS 0.00	05/05/11	0950	9.25	
03		CONG SS 0.01	05/05/11	1016	9.25	
04		CONG SS 0.02	05/05/11	1042	9.25	
05		CONG SS 0.1	05/05/11	1108	9.25	
06		CONG SS 0.25	05/05/11	1134	9.25	
07		CONG PCB 0.0	05/05/11	1437		
08		CONG PCB 0.0	05/05/11	1503		
09		CONG PCB 0.0	05/05/11	1529		
10		CONG PCB 0.0	05/05/11	1555		
11		CONG PCB 0.1	05/05/11	1621		
12		CONG PCB 0.2	05/05/11	1647		
13		CONG IND 0.0	05/05/11	1713		
14	WG90689-BLAN	WG90689-1	05/05/11	1739	9.25	
15	WG90689-LCS	WG90689-2	05/05/11	1805	9.26	
16	WG90689-LCSD	WG90689-3	05/05/11	1831	9.26	
17	OU4-RB-04201	SE2074-32	05/05/11	1949	9.27	
18	OU4-SB-04201	SE2074-33	05/05/11	2015	9.27	
19		CONG SS 0.05	05/05/11	2134	9.26	
20		CONG PCB 0.0	05/05/11	2226		

S3 = PCB 192

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date(s): 05/05/11 05/05/11

Column: RTX-CLPESTICIDES ID: 0.53 (mm) Calibration Time(s): 0924 1647

LAB FILE ID: RF0.005: 7EE120 RF0.01: 7EE121 RF0.025: 7EE122
RF0.05: 7EE119 RF0.1: 7EE123 RF0.25: 7EE124

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
PCB 209 (DCB)	2382200	5082200	1e+007	3e+007	5e+007	1e+008	2ORDR	1.542e-005	2.001e-009	-1.53e-018	0.99999	0.99000
PCB 8	894320	1884200	4474200	9031000	2e+007	5e+007	2ORDR	-5.25e-004	5.792e-009	-9.2e-018	0.99995	0.99000
PCB 18	1041100	2273100	5480300	1e+007	2.e+007	5e+007	2ORDR	-1.28e-003	5.094e-009	-7.34e-018	0.99960	0.99000
PCB 28	2251800	4819700	1e+007	2e+007	5e+007	1e+008	2ORDR	-2.45e-004	2.163e-009	-1.3e-018	0.99996	0.99000
PCB 52	1511400	3279900	8148700	2e+007	3e+007	8e+007	2ORDR	-1.96e-004	3.168e-009	-2.17e-018	0.99998	0.99000
PCB 44	2233900	4573800	1e+007	2e+007	5e+007	1e+008	2ORDR	-2.43e-004	2.246e-009	-1.4e-018	0.99998	0.99000
PCB 66	2327300	5144200	1e+007	3e+007	5e+007	1e+008	2ORDR	2.928e-004	1.901e-009	[illegible]	[illegible]	[illegible]
PCB 101	2123200	4485200	1e+007	2e+007	5e+007	1e+008	2ORDR	2.056e-006	2.265e-009	-1.28e-018	1.00000	0.99000
PCB 118	2150800	4749900	1e+007	3e+007	5e+007	1e+008	2ORDR	7.18e-004	1.929e-009	-1.16e-018	0.99998	0.99000
PCB 153	2226300	4826500	1e+007	2e+007	5e+007	1e+008	2ORDR	2.955e-004	2.029e-009	-1.14e-018	0.99999	0.99000
PCB 105	2342300	5328700	1e+007	3e+007	6e+007	2e+008	2ORDR	1.133e-003	1.624e-009	-1.24e-018	0.99994	0.99000
PCB 138	2442600	5322800	1e+007	3e+007	6e+007	2e+008	2ORDR	2.631e-004	1.823e-009	-1.17e-018	0.99997	0.99000
PCB 187	2511600	5517300	1e+007	3e+007	6e+007	1e+008	2ORDR	3.712e-005	1.837e-009	-1.13e-018	0.99998	0.99000
PCB 128	2772800	5993200	1e+007	3e+007	6e+007	2e+008	2ORDR	3.416e-004	1.622e-009	-8.8e-019	0.99998	0.99000
PCB 180	3026800	6452700	2e+007	3e+007	7e+007	2e+008	2ORDR	3.277e-004	1.511e-009	-8.32e-019	0.99999	0.99000
PCB 170	2546700	5560000	1e+007	3.e+007	6e+007	2e+008	2ORDR	4.806e-004	1.711e-009	-1.36e-018	0.99997	0.99000
PCB 195	3711600	7912800	2e+007	4.e+007	8e+007	2.e+008	2ORDR	-9.14e-005	1.296e-009	-3.43e-019	0.99999	0.99000
PCB 206	2654800	5688400	1e+007	3e+007	6e+007	2e+008	2ORDR	1.231e-004	1.75e-009	-1.26e-018	0.99999	0.99000
PCB 114	3143800	7000600	2e+007	4e+007	8.e+007	2e+008	2ORDR	9.013e-004	1.28e-009	-4.81e-019	0.99996	0.99000
PCB 123	1975000	4544900	1e+007	3e+007	5e+007	1e+008	2ORDR	8.903e-004	1.954e-009	-1.3e-018	0.99997	0.99000
PCB 126	760330	1846800	5196700	1e+007	3e+007	9e+007	2ORDR	2.326e-003	3.921e-009	-1.21e-017	0.99972	0.99000
PCB 156	2390800	5293800	1e+007	3e+007	7e+007	2e+008	2ORDR	1.394e-003	1.561e-009	-1.39e-018	0.99988	0.99000
PCB 167	2297800	5218100	1e+007	3e+007	6.e+007	2e+008	2ORDR	7.979e-004	1.751e-009	-1.51e-018	0.99996	0.99000
PCB 169	1344600	2992800	7610800	2e+007	4e+007	1e+008	2ORDR	1.258e-003	2.9e-009	-6.27e-018	0.99987	0.99000
PCB 189	2615300	5590400	1e+007	3e+007	7e+007	2e+008	2ORDR	8.815e-004	1.601e-009	-1.5e-018	0.99995	0.99000
PCB 157	2111400	4625200	1e+007	3e+007	6e+007	2e+008	2ORDR	1.069e-003	1.88e-009	-1.78e-018	0.99994	0.99000
PCB 77	712710	1723600	4915900	1e+007	2e+007	7.e+007	2ORDR	1.977e-003	4.33e-009	-1.14e-017	0.99982	0.99000
PCB 81	1246300	2852900	7778800	2e+007	4e+007	1.e+008	2ORDR	1.309e-003	2.906e-009	-4.44e-018	0.99992	0.99000
Tetrachloro-m-Xylene	4302400	7100000	4e+007	4e+007	9e+007	2e+008	LINR	7.477e-004	1.133e-009		0.99994	0.99000
PCB 103	2176700	1811600	1.e+007	2e+007	4e+007	1e+008	2ORDR	1.93e-003	2.286e-009	-1.08e-018	0.99952	0.99000
PCB 192	3245300	6931300	2e+007	4e+007	7e+007	2.e+008	2ORDR	2.964e-004	1.427e-009	-7.76e-019	0.99996	0.99000

FORM VI PEST

Report Date: 24-May-2011 08:41

Calibration History

Method : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m
Start Cal Date: 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Last Cal Level: 5
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
05-MAY-2011 15:03	PCB	7EE120.D
05-MAY-2011 12:26	extras	7EE114.D
05-MAY-2011 09:50	SS	7EE108.D
Cal Level: 2 , Cal Amount: 0.01000		
05-MAY-2011 15:29	PCB	7EE121.D
05-MAY-2011 12:52	extras	7EE115.D
05-MAY-2011 10:16	SS	7EE109.D
Cal Level: 3 , Cal Amount: 0.02500		
05-MAY-2011 15:55	PCB	7EE122.D
05-MAY-2011 13:18	extras	7EE116.D
05-MAY-2011 10:42	SS	7EE110.D
Cal Level: 4 , Cal Amount: 0.05000		
05-MAY-2011 14:37	PCB	7EE119.D
05-MAY-2011 12:00	extras	7EE113.D
05-MAY-2011 09:24	SS	7EE107.D
Cal Level: 5 , Cal Amount: 0.10000		
05-MAY-2011 16:21	PCB	7EE123.D
05-MAY-2011 13:44	extras	7EE117.D
05-MAY-2011 11:08	SS	7EE111.D
Cal Level: 6 , Cal Amount: 0.25000		
05-MAY-2011 16:47	PCB	7EE124.D
05-MAY-2011 14:11	extras	7EE118.D
05-MAY-2011 11:34	SS	7EE112.D

Report Date : 24-May-2011 08:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m
Cal Date : 24-May-2011 08:38 jprescott

Calibration File Names:
Level 1: \\Target_server\gg\chem\gc07.i\GC07EE05.b\7EE120.D
Level 2: \\Target_server\gg\chem\gc07.i\GC07EE05.b\7EE121.D
Level 3: \\Target_server\gg\chem\gc07.i\GC07EE05.b\7EE122.D
Level 4: \\Target_server\gg\chem\gc07.i\GC07EE05.b\7EE119.D
Level 5: \\Target_server\gg\chem\gc07.i\GC07EE05.b\7EE123.D
Level 6: \\Target_server\gg\chem\gc07.i\GC07EE05.b\7EE124.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 PCB 8	894317	1884154	4474180	9030997	17717354	46733608	QUAD	-0.00053	5.792e-009	-9.199e-01	0.99995
3 PCB 18	1041073	2273140	5480347	10795557	19965819	53488157	QUAD	-0.00128	5.094e-009	-7.336e-01	0.99960
4 PCB 28	2251837	4819672	11800329	24061291	47372713	125146954	QUAD	-0.00025	2.163e-009	-1.298e-01	0.99996
5 PCB 52	1511378	3279866	8148737	16115683	32226165	83801026	QUAD	-0.00020	3.168e-009	-2.169e-01	0.99999
6 PCB 49	1894835	4110363	10187293	19404237	41330338	106585080	QUAD	0.00019	2.498e-009	-1.453e-01	0.99990
7 PCB 44	2233945	4573774	11427279	23040785	45694247	120539590	QUAD	-0.00024	2.246e-009	-1.403e-01	0.99998
9 PCB 66	2327331	5144185	12853572	27056077	54417058	146721917	QUAD	0.00029	1.901e-009	-1.354e-01	0.99998
10 PCB 101	2123196	4485151	11059502	22514823	45225738	118292256	QUAD	2.056e-006	2.265e-009	-1.277e-01	1.00000
11 PCB 87	3153878	6639729	16654922	32633004	69528557	182013481	QUAD	0.00037	1.493e-009	-6.711e-01	0.99992
12 PCB 81	1246348	2852888	7778780	17317066	36038924	101187132	QUAD	0.00131	2.906e-009	-4.436e-01	0.99992
13 PCB 77	712710	1723589	4915872	11432100	24340074	70203624	QUAD	0.00198	4.330e-009	-1.137e-01	0.99982
14 PCB 123	1974982	4544910	12117001	25585376	52682817	140600131	QUAD	0.00089	1.954e-009	-1.298e-01	0.99997
15 PCB 118	2150835	4749913	12350442	25945745	53322472	141241202	QUAD	0.00072	1.929e-009	-1.161e-01	0.99998
16 PCB 114	3143823	7000560	18103996	39075195	80023073	211330398	QUAD	0.00090	1.280e-009	-4.809e-01	0.99996

Report Date : 24-May-2011 08:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m
Cal Date : 24-May-2011 08:38 jprescott

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
17 PCB 184	2631394	5589359	13956306	26748650	57103389	147857836	QUAD	0.00025	1.812e-009	-8.334e-01	0.99990
18 PCB 153	2226343	4826506	12066457	24966739	50568797	133018768	QUAD	0.00030	2.029e-009	-1.142e-01	0.99999
19 PCB 105	2342305	5328662	14104856	30833495	64262398	177166549	QUAD	0.00113	1.624e-009	-1.241e-01	0.99994
20 PCB 138	2442595	5322773	13445467	28295474	56528707	151758055	QUAD	0.00026	1.823e-009	-1.168e-01	0.99997
21 PCB 187	2511584	5517300	13631622	28023462	56143216	149882997	QUAD	0.00004	1.837e-009	-1.131e-01	0.99999
22 PCB 183	2876296	6164716	15444942	29947003	64383288	168789586	QUAD	0.00040	1.617e-009	-8.195e-01	0.99989
23 PCB 126	760326	1846819	5196734	12550525	27494603	86139456	QUAD	0.00233	3.921e-009	-1.215e-01	0.99972
24 PCB 128	2772835	5993234	14964071	31455221	63578067	169534299	QUAD	0.00034	1.622e-009	-8.799e-01	0.99998
25 PCB 167	2297858	5218134	13450052	28989272	59814703	166153380	QUAD	0.00080	1.751e-009	-1.515e-01	0.99997
26 PCB 156	2390832	5293766	14162700	32261260	67461386	192045285	QUAD	0.00139	1.561e-009	-1.389e-01	0.99989
28 PCB 157	2111390	4625201	12249916	26670655	55791468	155199797	QUAD	0.00107	1.880e-009	-1.783e-01	0.99994
29 PCB 180	3026796	6452680	16092797	33730640	68554494	183891570	QUAD	0.00033	1.511e-009	-8.320e-01	0.99999
30 PCB 170	2546726	5560048	14013431	30070088	61027362	168361022	QUAD	0.00048	1.711e-009	-1.360e-01	0.99997
31 PCB 169	1344567	2992816	7610798	17658575	37134185	113771171	QUAD	0.00126	2.900e-009	-6.272e-01	0.99987
32 PCB 189	2615322	5590399	14479492	31853765	66112362	188939413	QUAD	0.00088	1.601e-009	-1.496e-01	0.99995
33 PCB 195	3711586	7912817	19456714	39504371	78549495	203957054	QUAD	-0.00009	1.296e-009	-3.427e-01	0.99999
34 PCB 206	2654778	5688385	14240594	29438098	59478382	161584631	QUAD	0.00012	1.750e-009	-1.257e-01	0.99999
35 PCB 209 (DCB)	2382186	5082177	12530007	25701389	51918868	139934858	QUAD	0.00002	2.001e-009	-1.532e-01	0.99999
1 Tetrachloro-m-Xylene	4302387	7100054	+++++	43663290	87111157	220238818	LINR	0.00075	882834495		0.99994
8 PCB 103	2176661	1811605	10218377	21115810	43904035	114714690	QUAD	0.00193	2.286e-009	-1.081e-01	0.99952
27 PCB 192	3245299	6931320	16773593	36142787	72586140	195890399	QUAD	0.00030	1.427e-009	-7.757e-01	0.99996

Report Date : 24-May-2011 08:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m
Cal Date : 24-May-2011 08:38 jprescott

Curve	Formula	Units
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/05/11 Time: 1713

Lab File ID: 7EE125 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1647

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	4.46e-002	5.e-002	453720000	0.001	-10.80	15.00	2RDR	
PCB 8	4.77e-002	5.e-002	168610000	0.001	-4.60	15.00	2RDR	
PCB 18	5.02e-002	5.e-002	205300000	0.001	0.40	15.00	2RDR	
PCB 28	4.69e-002	5.e-002	441460000	0.001	-6.20	15.00	2RDR	
PCB 52	4.53e-002	5.e-002	290160000	0.001	-9.40	15.00	2RDR	
PCB 44	4.44e-002	5.e-002	402530000	0.001	-11.20	15.00	2RDR	
PCB 66	3.86e-002	5.e-002	408720000	0.001	-22.80	15.00	2RDR	<-
PCB 101	4.55e-002	5.e-002	406850000	0.001	-9.00	15.00	2RDR	
PCB 118	4.28e-002	5.e-002	442650000	0.001	-14.40	15.00	2RDR	
PCB 153	4.51e-002	5.e-002	447740000	0.001	-9.80	15.00	2RDR	
PCB 105	4.29e-002	5.e-002	525080000	0.001	-14.20	15.00	2RDR	
PCB 138	4.43e-002	5.e-002	491270000	0.001	-11.40	15.00	2RDR	
PCB 187	4.53e-002	5.e-002	500210000	0.001	-9.40	15.00	2RDR	
PCB 128	4.35e-002	5.e-002	540770000	0.001	-13.00	15.00	2RDR	
PCB 180	4.43e-002	5.e-002	591330000	0.001	-11.40	15.00	2RDR	
PCB 170	4.42e-002	5.e-002	522240000	0.001	-11.60	15.00	2RDR	
PCB 195	4.49e-002	5.e-002	700210000	0.001	-10.20	15.00	2RDR	
PCB 206	4.9e-002	5.e-002	570030000	0.001	-2.00	15.00	2RDR	
PCB 114	0.0000000	5.e-002	738840000	0.001	0.00 OK	15.00	2RDR	<-
PCB 123	4.22e-002	5.e-002	429260000	0.001	-15.60	15.00	2RDR	<-
PCB 126	4.72e-002	5.e-002	237620000	0.001	-5.60	15.00	2RDR	
PCB 156	4.36e-002	5.e-002	554130000	0.001	-12.80	15.00	2RDR	
PCB 167	4.44e-002	5.e-002	509010000	0.001	-11.20	15.00	2RDR	
PCB 169	4.54e-002	5.e-002	315210000	0.001	-9.20	15.00	2RDR	
PCB 189	4.54e-002	5.e-002	571940000	0.001	-9.20	15.00	2RDR	
PCB 157	4.52e-002	5.e-002	480180000	0.001	-9.60	15.00	2RDR	
PCB 77	4.51e-002	5.e-002	204700000	0.001	-9.80	15.00	2RDR	
PCB 81	4.19e-002	5.e-002	285670000	0.001	-16.20	15.00	2RDR	<-
PCB 49	4.68e-002	5.e-002	377460000	0.001	-6.40	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/05/11 Time: 2134

Lab File ID: 7EE135 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	5.58e-002	5.e-002	972930000	0.001	11.60	15.00	LINR
PCB 103	5.5e-002	5.e-002	469240000	0.001	10.00	15.00	2RDR
PCB 192	4.93e-002	5.e-002	700860000	0.001	-1.40	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/05/11 Time: 2226

Lab File ID: 7EE137 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	4.87e-002	5.e-002	496180000	0.001	-2.60	15.00	2RDR	
PCB 8	5.07e-002	5.e-002	179530000	0.001	1.40	15.00	2RDR	
PCB 18	5.23e-002	5.e-002	213550000	0.001	4.60	15.00	2RDR	
PCB 28	4.96e-002	5.e-002	467970000	0.001	-0.80	15.00	2RDR	
PCB 52	4.9e-002	5.e-002	314170000	0.001	-2.00	15.00	2RDR	
PCB 44	4.9e-002	5.e-002	444870000	0.001	-2.00	15.00	2RDR	
PCB 66	4.81e-002	5.e-002	512180000	0.001	-3.80	15.00	2RDR	
PCB 101	4.84e-002	5.e-002	432430000	0.001	-3.20	15.00	2RDR	
PCB 118	4.78e-002	5.e-002	496090000	0.001	-4.40	15.00	2RDR	
PCB 153	4.84e-002	5.e-002	480450000	0.001	-3.20	15.00	2RDR	
PCB 105	4.62e-002	5.e-002	566740000	0.001	-7.60	15.00	2RDR	
PCB 138	4.78e-002	5.e-002	531010000	0.001	-4.40	15.00	2RDR	
PCB 187	4.81e-002	5.e-002	532100000	0.001	-3.80	15.00	2RDR	
PCB 128	4.7e-002	5.e-002	584130000	0.001	-6.00	15.00	2RDR	
PCB 180	4.75e-002	5.e-002	635430000	0.001	-5.00	15.00	2RDR	
PCB 170	4.76e-002	5.e-002	563270000	0.001	-4.80	15.00	2RDR	
PCB 195	4.87e-002	5.e-002	759780000	0.001	-2.60	15.00	2RDR	
PCB 206	4.89e-002	5.e-002	569720000	0.001	-2.20	15.00	2RDR	
PCB 114	4.75e-002	5.e-002	738840000	0.001	-5.00	15.00	2RDR	
PCB 123	4.81e-002	5.e-002	490760000	0.001	-3.80	15.00	2RDR	
PCB 126	4.22e-002	5.e-002	210030000	0.001	-15.60	15.00	2RDR	<-
PCB 156	4.5e-002	5.e-002	573490000	0.001	-10.00	15.00	2RDR	
PCB 167	4.66e-002	5.e-002	535100000	0.001	-6.80	15.00	2RDR	
PCB 169	4.44e-002	5.e-002	307510000	0.001	-11.20	15.00	2RDR	
PCB 189	4.53e-002	5.e-002	570120000	0.001	-9.40	15.00	2RDR	
PCB 157	4.57e-002	5.e-002	485920000	0.001	-8.60	15.00	2RDR	
PCB 77	4.42e-002	5.e-002	200390000	0.001	-11.60	15.00	2RDR	
PCB 81	4.56e-002	5.e-002	312290000	0.001	-8.80	15.00	2RDR	

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.21 S2 : 6.89

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	S2 RT #
01		CONG SS 0.05	05/05/11	0924	4.21	6.88
02		CONG SS 0.00	05/05/11	0950	4.21	6.88
03		CONG SS 0.01	05/05/11	1016	4.21	6.88
04		CONG SS 0.02	05/05/11	1042	4.21	6.88
05		CONG SS 0.1	05/05/11	1108	4.21	6.88
06		CONG SS 0.25	05/05/11	1134	4.21	6.88
07		CONG PCB 0.0	05/05/11	1437		
08		CONG PCB 0.0	05/05/11	1503		
09		CONG PCB 0.0	05/05/11	1529		
10		CONG PCB 0.0	05/05/11	1555		
11		CONG PCB 0.1	05/05/11	1621		
12		CONG PCB 0.2	05/05/11	1647		
13		CONG IND 0.0	05/05/11	1713		
14	WG90689-BLAN	WG90689-1	05/05/11	1739	4.21	6.88
15	WG90689-LCS	WG90689-2	05/05/11	1805	4.21	6.88
16	WG90689-LCSD	WG90689-3	05/05/11	1831	4.21	6.89
17	OU4-RB-04201	SE2074-32	05/05/11	1949	4.22	6.89
18	OU4-SB-04201	SE2074-33	05/05/11	2015	4.22	6.89
19		CONG SS 0.05	05/05/11	2133	4.21	6.89
20		CONG PCB 0.0	05/05/11	2226		

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
S2 = PCB 103 (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 11.72

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		CONG SS 0.05	05/05/11	0924	11.70	
02		CONG SS 0.00	05/05/11	0950	11.70	
03		CONG SS 0.01	05/05/11	1016	11.70	
04		CONG SS 0.02	05/05/11	1042	11.70	
05		CONG SS 0.1	05/05/11	1108	11.70	
06		CONG SS 0.25	05/05/11	1134	11.70	
07		CONG PCB 0.0	05/05/11	1437		
08		CONG PCB 0.0	05/05/11	1503		
09		CONG PCB 0.0	05/05/11	1529		
10		CONG PCB 0.0	05/05/11	1555		
11		CONG PCB 0.1	05/05/11	1621		
12		CONG PCB 0.2	05/05/11	1647		
13		CONG IND 0.0	05/05/11	1713		
14	WG90689-BLAN	WG90689-1	05/05/11	1739	11.70	
15	WG90689-LCS	WG90689-2	05/05/11	1805	11.71	
16	WG90689-LCSD	WG90689-3	05/05/11	1831	11.71	
17	OU4-RB-04201	SE2074-32	05/05/11	1949	11.72	
18	OU4-SB-04201	SE2074-33	05/05/11	2015	11.72	
19		CONG SS 0.05	05/05/11	2133	11.72	
20		CONG PCB 0.0	05/05/11	2226		

S3 = PCB 192

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date(s): 05/05/11 05/05/11

Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Calibration Time(s): 0924 1647

LAB FILE ID: RF0.005: 7EE120 RF0.01: 7EE121 RF0.025: 7EE122
RF0.05: 7EE119 RF0.1: 7EE123 RF0.25: 7EE124

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
PCB 209 (DCB)	333060	684440	1657400	3203600	6091000	2e+007	2ORDR	-9.52e-004	1.632e-008	3.558e-018	0.99987	0.99000
PCB 8	207500	419440	981040	1947000	3783600	9476900	2ORDR	-6.56e-004	2.64e-008	5.841e-018	0.99996	0.99000
PCB 18	217620	452630	1094500	2149300	4122700	1e+007	2ORDR	-7.77e-004	2.433e-008	-4.47e-017	0.99990	0.99000
PCB 28	426540	896870	2207700	4402400	8620900	2e+007	2ORDR	-1.76e-004	1.147e-008	1.204e-017	0.99999	0.99000
PCB 52	302590	619080	1483100	2925500	5655500	1e+007	2ORDR	-6.32e-004	1.761e-008	6.526e-018	0.99995	0.99000
PCB 44	390060	819650	1977100	3909200	7638400	2e+007	2ORDR	-4.57e-004	1.31e-008	-3.94e-018	0.99997	0.99000
PCB 66	430870	874540	2119500	4272300	8352300	2e+007	2ORDR	-3.25e-004	1.199e-008	-4.35e-018	0.99998	0.99000
PCB 101	328810	694150	1662000	3305300	6391700	2e+007	2ORDR	-5.13e-004	1.557e-008	4.029e-018	0.99995	0.99000
PCB 118	334280	715500	1751200	3540000	6844200	2e+007	2ORDR	-3.72e-004	1.469e-008	-2.46e-017	0.99993	0.99000
PCB 153	317600	662280	1590400	3161200	6026600	2e+007	2ORDR	-6.7e-004	1.646e-008	8.337e-018	0.99991	0.99000
PCB 105	358320	754390	1923700	3992300	7882300	2e+007	2ORDR	1.204e-004	1.29e-008	-3.85e-017	0.99997	0.99000
PCB 138	332680	705720	1737900	3492500	6848600	2e+007	2ORDR	-2.31e-004	1.468e-008	-1.88e-017	0.99997	0.99000
PCB 187	314150	663580	1638700	3194500	6283400	2e+007	2ORDR	-3.54e-004	1.585e-008	7.014e-018	0.99998	0.99000
PCB 128	366880	777790	1927500	3881400	7653000	2.e+007	2ORDR	-1.41e-004	1.316e-008	-1.79e-017	0.99998	0.99000
PCB 180	429170	895680	2150800	4261000	8127600	2e+007	2ORDR	-7.45e-004	1.228e-008	-4.56e-018	0.99989	0.99000
PCB 170	355330	766160	1889900	3819700	7548400	2e+007	2ORDR	-6.33e-005	1.332e-008	-1.5e-017	0.99999	0.99000
PCB 195	401610	842470	2064200	4118400	7996400	2.e+007	2ORDR	-4.28e-004	1.254e-008	-1.14e-017	0.99995	0.99000
PCB 206	370590	780720	1852500	3733000	7155800	2e+007	2ORDR	-5.84e-004	1.396e-008	-7.37e-018	0.99992	0.99000
PCB 114	453050	959300	2373800	4898700	9645600	3e+007	2ORDR	-2.61e-005	1.051e-008	-2.03e-017	0.99997	0.99000
PCB 123	333660	713960	1757900	3589400	7031300	2e+007	2ORDR	-1.21e-004	1.432e-008	-2.42e-017	0.99997	0.99000
PCB 126	152390	335870	875670	1907200	3872400	1e+007	2ORDR	7.959e-004	2.672e-008	-2.9e-016	0.99995	0.99000
PCB 156	374580	804260	2044700	4262500	8552200	2e+007	2ORDR	2.963e-004	1.198e-008	-4.12e-017	0.99998	0.99000
PCB 167	315040	683800	1706800	3518700	6918200	2e+007	2ORDR	7.069e-005	1.455e-008	-2.62e-017	0.99997	0.99000
PCB 169	215430	478680	1218300	2563800	5115400	1e+007	2ORDR	1.885e-004	2.039e-008	-1.95e-016	0.99996	0.99000
PCB 189	388880	834720	2072200	4191200	8302300	2e+007	2ORDR	-1.86e-004	1.235e-008	-4.24e-017	0.99997	0.99000
PCB 157	333490	710640	1785900	3654600	7320400	2e+007	2ORDR	1.449e-004	1.39e-008	-3.92e-017	0.99999	0.99000
PCB 77	148380	316820	812560	1783100	3511300	9471600	2ORDR	4.823e-004	2.921e-008	-3.02e-016	0.99991	0.99000
PCB 81	237740	499790	1240700	2607200	5152700	1e+007	2ORDR	9.953e-005	1.982e-008	-1.03e-016	0.99996	0.99000
Tetrachloro-m-Xylene	908650	1855200	9758400	9392200	2e+007	4e+007	LINR	-6.91e-004	5.567e-009		0.99991	0.99000
PCB 103	391550	781380	1906000	3829400	7485500	2e+007	2ORDR	-2.32e-004	1.32e-008	1.899e-017	0.99999	0.99000
PCB 192	488120	1042600	2407000	4888800	9338200	2e+007	2ORDR	-5.17e-004	1.054e-008	1.326e-017	0.99993	0.99000

FORM VI PEST

Calibration History

Method : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m\CON023.m
Start Cal Date: 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Last Cal Level: 3
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00500		
05-MAY-2011 15:03	PCB	7EE120.D
05-MAY-2011 12:26	extras	7EE114.D
05-MAY-2011 09:50	SS	7EE108.D
Cal Level: 2 , Cal Amount: 0.01000		
05-MAY-2011 15:29	PCB	7EE121.D
05-MAY-2011 12:52	extras	7EE115.D
05-MAY-2011 10:16	SS	7EE109.D
Cal Level: 3 , Cal Amount: 0.02500		
05-MAY-2011 15:55	PCB	7EE122.D
05-MAY-2011 13:18	extras	7EE116.D
05-MAY-2011 10:42	SS	7EE110.D
Cal Level: 4 , Cal Amount: 0.05000		
05-MAY-2011 14:37	PCB	7EE119.D
05-MAY-2011 12:00	extras	7EE113.D
05-MAY-2011 09:24	SS	7EE107.D
Cal Level: 5 , Cal Amount: 0.10000		
05-MAY-2011 16:21	PCB	7EE123.D
05-MAY-2011 13:44	extras	7EE117.D
05-MAY-2011 11:08	SS	7EE111.D
Cal Level: 6 , Cal Amount: 0.25000		
05-MAY-2011 16:47	PCB	7EE124.D
05-MAY-2011 14:11	extras	7EE118.D
05-MAY-2011 11:34	SS	7EE112.D

Report Date : 24-May-2011 08:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m\CON023.m
Cal Date : 24-May-2011 08:39 jprescott

Calibration File Names:
Level 1: \\Target_server\gg\chem\gc07.i\GC07EE05.b\GC07EE05.b\7EE120.D
Level 2: \\Target_server\gg\chem\gc07.i\GC07EE05.b\GC07EE05.b\7EE121.D
Level 3: \\Target_server\gg\chem\gc07.i\GC07EE05.b\GC07EE05.b\7EE122.D
Level 4: \\Target_server\gg\chem\gc07.i\GC07EE05.b\GC07EE05.b\7EE119.D
Level 5: \\Target_server\gg\chem\gc07.i\GC07EE05.b\GC07EE05.b\7EE123.D
Level 6: \\Target_server\gg\chem\gc07.i\GC07EE05.b\GC07EE05.b\7EE124.D

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 PCB 8	207504	419437	981045	1947053	3783609	9476924	QUAD	-0.00066	2.640e-008	5.841e-018	0.99996
90 PCB 49	374679	778695	1877300	3560595	7212535	18008579	QUAD	-0.00042	1.396e-008	-3.245e-01	0.99997
91 PCB 87	464520	957470	2291250	4421363	8999032	22690173	QUAD	-0.00032	1.127e-008	-1.034e-01	0.99998
92 PCB 183	384686	784362	1888384	3649499	7328973	18326328	QUAD	-0.00039	1.372e-008	-3.088e-01	0.99999
93 PCB 184	347786	722997	1731825	3313001	6670845	16673317	QUAD	-0.00045	1.509e-008	-3.847e-01	0.99998
13 PCB 18	217618	452628	1094533	2149307	4122698	10513371	QUAD	-0.00078	2.433e-008	-4.467e-01	0.99990
14 PCB 28	426544	896867	2207690	4402413	8620876	21344899	QUAD	-0.00018	1.147e-008	1.204e-017	0.99999
15 PCB 52	302594	619083	1483077	2925484	5655516	14165999	QUAD	-0.00063	1.761e-008	6.526e-018	0.99995
16 PCB 44	390059	819652	1977123	3909233	7638453	19239107	QUAD	-0.00046	1.310e-008	-3.938e-01	0.99997
18 PCB 66	430867	874537	2119472	4272522	8352341	21074614	QUAD	-0.00033	1.199e-008	-4.956e-01	0.99998
19 PCB 101	328814	694149	1661993	3305275	6391747	16030019	QUAD	-0.00051	1.557e-008	4.029e-018	0.99995
11 PCB 81	237741	499791	1240745	2607208	5152661	13568413	QUAD	0.00010	1.982e-008	-1.029e-01	0.99996
10 PCB 77	148385	316817	812563	1783121	3511337	9471638	QUAD	0.00048	2.921e-008	-3.024e-01	0.99991
3 PCB 123	333658	713957	1757934	3589438	7031287	18019520	QUAD	-0.00012	1.432e-008	-2.421e-01	0.99997

Report Date : 24-May-2011 08:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m\CON023.m
Cal Date : 24-May-2011 08:39 jprescott

Compound	0.0050000 Level 1	0.0100000 Level 2	0.0250000 Level 3	0.0500000 Level 4	0.1000000 Level 5	0.2500000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
20 PCB 118	334282	715502	1751167	3539970	6844200	17567056	QUAD	-0.00037	1.469e-008	-2.461e-01	0.99993
2 PCB 114	453054	959297	2373799	4898718	9645631	25004093	QUAD	-0.00003	1.051e-008	-2.027e-01	0.99997
21 PCB 153	317600	662275	1590432	3161180	6026571	15124530	QUAD	-0.00067	1.646e-008	8.337e-018	0.99991
22 PCB 105	358321	754391	1923666	3992262	7882311	20639239	QUAD	0.00012	1.290e-008	-3.850e-01	0.99997
23 PCB 138	332675	705720	1737920	3492528	6848567	17444872	QUAD	-0.00023	1.468e-008	-1.880e-01	0.99997
8 PCB 189	388881	834716	2072190	4191182	8302323	21917975	QUAD	-0.00019	1.235e-008	-4.243e-01	0.99997
24 PCB 187	314151	663575	1638665	3194515	6283405	15689492	QUAD	-0.00035	1.585e-008	7.014e-018	0.99998
4 PCB 126	152392	335873	875669	1907236	3872412	10528668	QUAD	0.00080	2.672e-008	-2.901e-01	0.99995
6 PCB 167	315045	683798	1706826	3518733	6918160	17750810	QUAD	0.00007	1.455e-008	-2.624e-01	0.99997
25 PCB 128	366885	777794	1927474	3881382	7652995	19532091	QUAD	-0.00014	1.316e-008	-1.787e-01	0.99998
5 PCB 156	374583	804260	2044696	4262510	8552183	22598223	QUAD	0.00030	1.198e-008	-4.124e-01	0.99998
9 PCB 157	333489	710645	1785863	3654586	7320423	18994618	QUAD	0.00014	1.390e-008	-3.923e-01	0.99999
27 PCB 180	429170	895679	2150772	4261036	8127632	20592934	QUAD	-0.00075	1.228e-008	-4.557e-01	0.99989
7 PCB 169	215426	478685	1218335	2563791	5115427	14182603	QUAD	0.00019	2.039e-008	-1.955e-01	0.99996
28 PCB 170	355334	766161	1889915	3819713	7548407	19196295	QUAD	-0.00006	1.332e-008	-1.496e-01	0.99999
29 PCB 195	401610	842466	2064168	4118354	7996357	20346887	QUAD	-0.00043	1.254e-008	-1.138e-01	0.99995
30 PCB 206	370587	780724	1852465	3733004	7155799	18134527	QUAD	-0.00058	1.396e-008	-7.373e-01	0.99992
31 PCB 209 (DCB)	333055	684437	1657368	3203579	6091055	15331512	QUAD	-0.00095	1.632e-008	3.558e-018	0.99987
1 Tetrachloro-m-Xylene	908654	1855199	+++++	9392172	18208904	44929547	LINR	-0.00069	179636846		0.99991
17 PCB 103	391551	781375	1906008	3829447	7485488	18475955	QUAD	-0.00023	1.320e-008	1.899e-017	0.99999
26 PCB 192	488121	1042648	2406960	4888797	9338241	23107185	QUAD	-0.00052	1.054e-008	1.326e-017	0.99993

Report Date : 24-May-2011 08:41

Katahdin Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 09:24
End Cal Date : 05-MAY-2011 16:47
Quant Method : ESTD
Origin : Included
Target Version : 4.12
Integrator : Falcon
Method file : \\Target_server\gg\chem\gc07.i\SrcMeths\CON023.m\CON023.m
Cal Date : 24-May-2011 08:39 jprescott

Curve	Formula	Units
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/05/11 Time: 1713

Lab File ID: 7EE125 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1647

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	4.58e-002	5.e-002	64342000	0.001	-8.40	15.00	2RDR	
PCB 8	4.77e-002	5.e-002	39502000	0.001	-4.60	15.00	2RDR	
PCB 18	4.97e-002	5.e-002	43663000	0.001	-0.60	15.00	2RDR	
PCB 28	4.81e-002	5.e-002	88161000	0.001	-3.80	15.00	2RDR	
PCB 52	4.18e-002	5.e-002	58728000	0.001	-10.40	15.00	2RDR	
PCB 44	4.65e-002	5.e-002	78563000	0.001	-7.00	15.00	2RDR	
PCB 66	4.08e-002	5.e-002	83660000	0.001	-18.40	15.00	2RDR	<-
PCB 101	4.83e-002	5.e-002	65354000	0.001	-3.40	15.00	2RDR	
PCB 118	4.69e-002	5.e-002	70027000	0.001	-6.20	15.00	2RDR	
PCB 153	0.0000000	5.e-002	62825000	0.001	0.00	15.00	2RDR	<-
PCB 105	4.6e-002	5.e-002	76212000	0.001	-8.00	15.00	2RDR	
PCB 138	4.7e-002	5.e-002	68508000	0.001	-6.00	15.00	2RDR	
PCB 187	4.81e-002	5.e-002	64008000	0.001	-3.80	15.00	2RDR	
PCB 128	4.64e-002	5.e-002	75768000	0.001	-7.20	15.00	2RDR	
PCB 180	4.71e-002	5.e-002	84876000	0.001	-5.80	15.00	2RDR	
PCB 170	4.62e-002	5.e-002	75682000	0.001	-7.60	15.00	2RDR	
PCB 195	4.65e-002	5.e-002	81419000	0.001	-7.00	15.00	2RDR	
PCB 206	5.02e-002	5.e-002	74063000	0.001	0.40	15.00	2RDR	
PCB 114	4.87e-002	5.e-002	95442000	0.001	-2.60	15.00	2RDR	
PCB 123	4.6e-002	5.e-002	69649000	0.001	-8.00	15.00	2RDR	
PCB 126	5.25e-002	5.e-002	34800000	0.001	5.00	15.00	2RDR	
PCB 156	4.67e-002	5.e-002	82354000	0.001	-6.60	15.00	2RDR	
PCB 167	4.69e-002	5.e-002	67588000	0.001	-6.20	15.00	2RDR	
PCB 169	4.88e-002	5.e-002	47978000	0.001	-2.40	15.00	2RDR	
PCB 189	4.8e-002	5.e-002	81699000	0.001	-4.00	15.00	2RDR	
PCB 157	4.79e-002	5.e-002	70885000	0.001	-4.20	15.00	2RDR	
PCB 77	4.91e-002	5.e-002	33080000	0.001	-1.80	15.00	2RDR	
PCB 81	0.0000000	5.e-002	49894000	0.001	0.00	15.00	2RDR	<-
PCB 49	4.56e-002	5.e-002	72972000	0.001	-8.80	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/05/11 Time: 2133

Lab File ID: 7EE135 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	5.4e-002	5.e-002	196610000	0.001	8.00	15.00	LINR
PCB 103	5.14e-002	5.e-002	77771000	0.001	2.80	15.00	2RDR
PCB 192	4.85e-002	5.e-002	92471000	0.001	-3.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/05/11 Time: 2226

Lab File ID: 7EE137 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
PCB 209 (DCB)	5.16e-002	5.e-002	64342000	0.001	3.20	15.00	2RDR
PCB 8	5.15e-002	5.e-002	39502000	0.001	3.00	15.00	2RDR
PCB 18	5.21e-002	5.e-002	43663000	0.001	4.20	15.00	2RDR
PCB 28	5.06e-002	5.e-002	88161000	0.001	1.20	15.00	2RDR
PCB 52	5.11e-002	5.e-002	58728000	0.001	2.20	15.00	2RDR
PCB 44	5.09e-002	5.e-002	78563000	0.001	1.80	15.00	2RDR
PCB 66	4.97e-002	5.e-002	83660000	0.001	-0.60	15.00	2RDR
PCB 101	5.04e-002	5.e-002	65354000	0.001	0.80	15.00	2RDR
PCB 118	5.08e-002	5.e-002	70027000	0.001	1.60	15.00	2RDR
PCB 153	5.11e-002	5.e-002	62825000	0.001	2.20	15.00	2RDR
PCB 105	4.87e-002	5.e-002	76212000	0.001	-2.60	15.00	2RDR
PCB 138	4.98e-002	5.e-002	68508000	0.001	-0.40	15.00	2RDR
PCB 187	5.04e-002	5.e-002	64008000	0.001	0.80	15.00	2RDR
PCB 128	4.95e-002	5.e-002	75768000	0.001	-1.00	15.00	2RDR
PCB 180	5.13e-002	5.e-002	84876000	0.001	2.60	15.00	2RDR
PCB 170	5.01e-002	5.e-002	75682000	0.001	0.20	15.00	2RDR
PCB 195	5.04e-002	5.e-002	81419000	0.001	0.80	15.00	2RDR
PCB 206	5.1e-002	5.e-002	74063000	0.001	2.00	15.00	2RDR
PCB 114	4.97e-002	5.e-002	95442000	0.001	-0.60	15.00	2RDR
PCB 123	4.95e-002	5.e-002	69649000	0.001	-1.00	15.00	2RDR
PCB 126	4.64e-002	5.e-002	34800000	0.001	-7.20	15.00	2RDR
PCB 156	4.89e-002	5.e-002	82354000	0.001	-2.20	15.00	2RDR
PCB 167	4.89e-002	5.e-002	67588000	0.001	-2.20	15.00	2RDR
PCB 169	4.8e-002	5.e-002	47978000	0.001	-4.00	15.00	2RDR
PCB 189	4.95e-002	5.e-002	81699000	0.001	-1.00	15.00	2RDR
PCB 157	4.89e-002	5.e-002	70885000	0.001	-2.20	15.00	2RDR
PCB 77	4.8e-002	5.e-002	33080000	0.001	-4.00	15.00	2RDR
PCB 81	4.89e-002	5.e-002	49894000	0.001	-2.20	15.00	2RDR

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.65 S2 : 5.75

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	S2 RT #
01	→	CONG SS 0.05	05/11/11	1052	3.62	5.72
02	→	CONG PCB 0.0	05/11/11	1118		
03	OU4-SD-M08-1	WG90791-4	05/11/11	1151	3.63	5.73
04	OU4-SD-M08-1	WG90791-5	05/11/11	1241	3.63	5.73
05	WG90791-BLAN	WG90791-1	05/11/11	1307	3.62	5.72
06	WG90791-LCS	WG90791-2	05/11/11	1333	3.62	5.72
07	WG90791-LCSD	WG90791-3	05/11/11	1400	3.62	5.72
08	→	CONG SS 0.05	05/11/11	1426	3.62	5.72
09	→	CONG PCB 0.0	05/11/11	1452		
10	OU4-SD-M09-2	SE2074-11	05/11/11	1518	3.63	5.72
11	OU4-SD-M09-3	SE2074-12	05/11/11	1544	3.63	5.72
12	OU4-SD-M08-2	SE2074-13	05/11/11	1610	3.63	5.72
13	OU4-SD-M07-2	SE2074-14	05/11/11	1636	3.63	5.72
14	OU4-SD-M07-3	SE2074-15	05/11/11	1702	3.63	5.73
15	OU4-SD-M07-1	SE2074-26	05/11/11	1728	3.63	5.73
16	OU4-SD-M08-3	SE2074-27	05/11/11	1754	3.64	5.73
17	OU4-SD-FD-04	SE2074-28	05/11/11	1820	3.63	5.73
18	OU4-SD-M08-1	SE2074-29	05/11/11	1846	3.64	5.73
19	OU4-SD-M09-1	SE2074-30	05/11/11	1912	3.64	5.73
20	→	CONG SS 0.05	05/11/11	2005	3.63	5.73

QC LIMITS
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)
S2 = PCB 103 (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.65 S2 : 5.75

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	S2 RT #
01		CONG PCB 0.0	05/11/11	2031		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

	QC LIMITS
TCX = Tetrachloro-m-Xylene	(+/- 0.07 MINUTES)
S2 = PCB 103	(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 9.26

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		CONG SS 0.05	05/11/11	1052	9.21	
02		CONG PCB 0.0	05/11/11	1118		
03	OU4-SD-M08-1	WG90791-4	05/11/11	1151	9.23	
04	OU4-SD-M08-1	WG90791-5	05/11/11	1241	9.23	
05	WG90791-BLAN	WG90791-1	05/11/11	1307	9.20	
06	WG90791-LCS	WG90791-2	05/11/11	1333	9.21	
07	WG90791-LCSD	WG90791-3	05/11/11	1400	9.21	
08		CONG SS 0.05	05/11/11	1426	9.20	
09		CONG PCB 0.0	05/11/11	1452		
10	OU4-SD-M09-2	SE2074-11	05/11/11	1518	9.20	
11	OU4-SD-M09-3	SE2074-12	05/11/11	1544	9.21	
12	OU4-SD-M08-2	SE2074-13	05/11/11	1610	9.21	
13	OU4-SD-M07-2	SE2074-14	05/11/11	1636	9.21	
14	OU4-SD-M07-3	SE2074-15	05/11/11	1702	9.21	
15	OU4-SD-M07-1	SE2074-26	05/11/11	1728	9.21	
16	OU4-SD-M08-3	SE2074-27	05/11/11	1754	9.22	
17	OU4-SD-FD-04	SE2074-28	05/11/11	1820	9.22	
18	OU4-SD-M08-1	SE2074-29	05/11/11	1846	9.22	
19	OU4-SD-M09-1	SE2074-30	05/11/11	1912	9.22	
20		CONG SS 0.05	05/11/11	2005	9.22	

S3 = PCB 192

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 9.26

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		CONG PCB 0.0	05/11/11	2031		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S3 = PCB 192

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1052

Lab File ID: 7EE236 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	4.47e-002	5.e-002	775490000	0.001	-10.60	15.00	LINR
PCB 103	4.4e-002	5.e-002	371360000	0.001	-12.00	15.00	2RDR
PCB 192	4.36e-002	5.e-002	617500000	0.001	-12.80	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1118

Lab File ID: 7EE237 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	4.1e-002	5.e-002	416450000	0.001	-18.00	15.00	2RDR	<-
PCB 8	4.58e-002	5.e-002	161910000	0.001	-8.40	15.00	2RDR	
PCB 18	4.59e-002	5.e-002	187830000	0.001	-8.20	15.00	2RDR	
PCB 28	4.45e-002	5.e-002	418700000	0.001	-11.00	15.00	2RDR	
PCB 52	4.21e-002	5.e-002	269410000	0.001	-15.80	15.00	2RDR	<-
PCB 44	4.21e-002	5.e-002	381740000	0.001	-15.80	15.00	2RDR	<-
PCB 66	4.45e-002	5.e-002	473260000	0.001	-11.00	15.00	2RDR	
PCB 101	4.17e-002	5.e-002	372350000	0.001	-16.60	15.00	2RDR	<-
PCB 118	4.22e-002	5.e-002	435830000	0.001	-15.60	15.00	2RDR	<-
PCB 153	4.08e-002	5.e-002	404330000	0.001	-18.40	15.00	2RDR	<-
PCB 105	4.53e-002	5.e-002	555670000	0.001	-9.40	15.00	2RDR	
PCB 138	4.21e-002	5.e-002	465720000	0.001	-15.80	15.00	2RDR	<-
PCB 187	3.98e-002	5.e-002	439090000	0.001	-20.40	15.00	2RDR	<-
PCB 128	4.17e-002	5.e-002	517080000	0.001	-16.60	15.00	2RDR	<-
PCB 180	4.14e-002	5.e-002	552280000	0.001	-17.20	15.00	2RDR	<-
PCB 170	4.43e-002	5.e-002	522700000	0.001	-11.40	15.00	2RDR	
PCB 195	3.95e-002	5.e-002	615280000	0.001	-21.00	15.00	2RDR	<-
PCB 206	4.19e-002	5.e-002	485700000	0.001	-16.20	15.00	2RDR	<-
PCB 114	4.28e-002	5.e-002	663560000	0.001	-14.40	15.00	2RDR	
PCB 123	4.32e-002	5.e-002	439310000	0.001	-13.60	15.00	2RDR	
PCB 126	5.42e-002	5.e-002	276510000	0.001	8.40	15.00	2RDR	
PCB 156	4.69e-002	5.e-002	599310000	0.001	-6.20	15.00	2RDR	
PCB 167	4.23e-002	5.e-002	484040000	0.001	-15.40	15.00	2RDR	<-
PCB 169	5.46e-002	5.e-002	383770000	0.001	9.20	15.00	2RDR	
PCB 189	4.71e-002	5.e-002	594400000	0.001	-5.80	15.00	2RDR	
PCB 157	4.6e-002	5.e-002	489520000	0.001	-8.00	15.00	2RDR	
PCB 77	4.92e-002	5.e-002	224500000	0.001	-1.60	15.00	2RDR	
PCB 81	4.67e-002	5.e-002	320100000	0.001	-6.60	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1426

Lab File ID: 7EE243 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	4.95e-002	5.e-002	860350000	0.001	-1.00	15.00	LINR
PCB 103	4.57e-002	5.e-002	386710000	0.001	-8.60	15.00	2RDR
PCB 192	4.28e-002	5.e-002	605880000	0.001	-14.40	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1452

Lab File ID: 7EE244 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	3.89e-002	5.e-002	395020000	0.001	-22.20	15.00	2RDR	<-
PCB 8	4.71e-002	5.e-002	166500000	0.001	-5.80	15.00	2RDR	
PCB 18	4.72e-002	5.e-002	193110000	0.001	-5.60	15.00	2RDR	
PCB 28	4.54e-002	5.e-002	427480000	0.001	-9.20	15.00	2RDR	
PCB 52	4.35e-002	5.e-002	278400000	0.001	-13.00	15.00	2RDR	
PCB 44	4.32e-002	5.e-002	391450000	0.001	-13.60	15.00	2RDR	
PCB 66	4.5e-002	5.e-002	478190000	0.001	-10.00	15.00	2RDR	
PCB 101	4.19e-002	5.e-002	373930000	0.001	-16.20	15.00	2RDR	<-
PCB 118	4.2e-002	5.e-002	433820000	0.001	-16.00	15.00	2RDR	<-
PCB 153	3.97e-002	5.e-002	392850000	0.001	-20.60	15.00	2RDR	<-
PCB 105	4.47e-002	5.e-002	547760000	0.001	-10.60	15.00	2RDR	
PCB 138	4.17e-002	5.e-002	461490000	0.001	-16.60	15.00	2RDR	<-
PCB 187	3.93e-002	5.e-002	433340000	0.001	-21.40	15.00	2RDR	<-
PCB 128	4.11e-002	5.e-002	509110000	0.001	-17.80	15.00	2RDR	<-
PCB 180	4.09e-002	5.e-002	544810000	0.001	-18.20	15.00	2RDR	<-
PCB 170	4.33e-002	5.e-002	510270000	0.001	-13.40	15.00	2RDR	
PCB 195	3.78e-002	5.e-002	589300000	0.001	-24.40	15.00	2RDR	<-
PCB 206	4.07e-002	5.e-002	471940000	0.001	-18.60	15.00	2RDR	<-
PCB 114	4.19e-002	5.e-002	648020000	0.001	-16.20	15.00	2RDR	<-
PCB 123	4.33e-002	5.e-002	440140000	0.001	-13.40	15.00	2RDR	
PCB 126	5.49e-002	5.e-002	280300000	0.001	9.80	15.00	2RDR	
PCB 156	4.61e-002	5.e-002	587840000	0.001	-7.80	15.00	2RDR	
PCB 167	4.21e-002	5.e-002	481820000	0.001	-15.80	15.00	2RDR	<-
PCB 169	5.59e-002	5.e-002	393520000	0.001	11.80	15.00	2RDR	
PCB 189	4.7e-002	5.e-002	592580000	0.001	-6.00	15.00	2RDR	
PCB 157	4.54e-002	5.e-002	482340000	0.001	-9.20	15.00	2RDR	
PCB 77	4.9e-002	5.e-002	223810000	0.001	-2.00	15.00	2RDR	
PCB 81	4.74e-002	5.e-002	325140000	0.001	-5.20	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 2005

Lab File ID: 7EE256 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Tetrachloro-m-Xylene	4.41e-002	5.e-002	766320000	0.001	-11.80	15.00	LINR	
PCB 103	3.77e-002	5.e-002	315400000	0.001	-24.60	15.00	2RDR	<-
PCB 192	3.44e-002	5.e-002	484710000	0.001	-31.20	15.00	2RDR	<-

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 2031

Lab File ID: 7EE257 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	3.17e-002	5.e-002	320940000	0.001	-36.60	15.00	2RDR	<-
PCB 8	4.2e-002	5.e-002	148440000	0.001	-16.00	15.00	2RDR	<-
PCB 18	4.07e-002	5.e-002	166800000	0.001	-18.60	15.00	2RDR	<-
PCB 28	3.87e-002	5.e-002	364510000	0.001	-22.60	15.00	2RDR	<-
PCB 52	3.65e-002	5.e-002	233470000	0.001	-27.00	15.00	2RDR	<-
PCB 44	3.62e-002	5.e-002	327880000	0.001	-27.60	15.00	2RDR	<-
PCB 66	3.62e-002	5.e-002	383120000	0.001	-27.60	15.00	2RDR	<-
PCB 101	3.46e-002	5.e-002	308030000	0.001	-30.80	15.00	2RDR	<-
PCB 118	3.55e-002	5.e-002	364950000	0.001	-29.00	15.00	2RDR	<-
PCB 153	3.33e-002	5.e-002	328090000	0.001	-33.40	15.00	2RDR	<-
PCB 105	3.68e-002	5.e-002	446510000	0.001	-26.40	15.00	2RDR	<-
PCB 138	3.46e-002	5.e-002	381610000	0.001	-30.80	15.00	2RDR	<-
PCB 187	3.29e-002	5.e-002	361330000	0.001	-34.20	15.00	2RDR	<-
PCB 128	3.42e-002	5.e-002	422600000	0.001	-31.60	15.00	2RDR	<-
PCB 180	3.35e-002	5.e-002	444640000	0.001	-33.00	15.00	2RDR	<-
PCB 170	3.55e-002	5.e-002	415840000	0.001	-29.00	15.00	2RDR	<-
PCB 195	3.17e-002	5.e-002	493720000	0.001	-36.60	15.00	2RDR	<-
PCB 206	3.27e-002	5.e-002	377520000	0.001	-34.60	15.00	2RDR	<-
PCB 114	3.5e-002	5.e-002	537830000	0.001	-30.00	15.00	2RDR	<-
PCB 123	3.54e-002	5.e-002	357470000	0.001	-29.20	15.00	2RDR	<-
PCB 126	4.43e-002	5.e-002	221990000	0.001	-11.40	15.00	2RDR	
PCB 156	3.75e-002	5.e-002	472690000	0.001	-25.00	15.00	2RDR	<-
PCB 167	3.48e-002	5.e-002	395200000	0.001	-30.40	15.00	2RDR	<-
PCB 169	4.67e-002	5.e-002	324760000	0.001	-6.60	15.00	2RDR	
PCB 189	3.74e-002	5.e-002	466510000	0.001	-25.20	15.00	2RDR	<-
PCB 157	3.73e-002	5.e-002	392450000	0.001	-25.40	15.00	2RDR	<-
PCB 77	3.96e-002	5.e-002	178150000	0.001	-20.80	15.00	2RDR	<-
PCB 81	3.76e-002	5.e-002	254440000	0.001	-24.80	15.00	2RDR	<-

FORM VII PEST

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.21 S2 : 6.89

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	S2 RT #
01		CONG SS 0.05	05/11/11	1052	4.19	6.86
02		CONG PCB 0.0	05/11/11	1118		
03	OU4-SD-M08-1	WG90791-4	05/11/11	1151	4.19	6.87
04	OU4-SD-M08-1	WG90791-5	05/11/11	1241	4.19	6.86
05	WG90791-BLAN	WG90791-1	05/11/11	1307	4.19	6.86
06	WG90791-LCS	WG90791-2	05/11/11	1333	4.19	6.86
07	WG90791-LCSD	WG90791-3	05/11/11	1400	4.19	6.86
08		CONG SS 0.05	05/11/11	1426	4.19	6.86
09		CONG PCB 0.0	05/11/11	1452		
10	OU4-SD-M09-2	SE2074-11	05/11/11	1518	4.19	6.86
11	OU4-SD-M09-3	SE2074-12	05/11/11	1544	4.19	6.86
12	OU4-SD-M08-2	SE2074-13	05/11/11	1610	4.19	6.87
13	OU4-SD-M07-2	SE2074-14	05/11/11	1636	4.19	6.86
14	OU4-SD-M07-3	SE2074-15	05/11/11	1702	4.20	6.87
15	OU4-SD-M07-1	SE2074-26	05/11/11	1728	4.20	6.87
16	OU4-SD-M08-3	SE2074-27	05/11/11	1754	4.20	6.87
17	OU4-SD-FD-04	SE2074-28	05/11/11	1820	4.20	6.87
18	OU4-SD-M08-1	SE2074-29	05/11/11	1846	4.20	6.87
19	OU4-SD-M09-1	SE2074-30	05/11/11	1912	4.20	6.87
20		CONG SS 0.05	05/11/11	2005	4.20	6.87

	QC LIMITS
TCX = Tetrachloro-m-Xylene	(+/- 0.07 MINUTES)
S2 = PCB 103	(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 4.21 S2 : 6.89

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	S2 RT #
01		CONG PCB 0.0	05/11/11	2031		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

	QC LIMITS
TCX = Tetrachloro-m-Xylene	(+/- 0.07 MINUTES)
S2 = PCB 103	(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8

PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 11.72

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		CONG SS 0.05	05/11/11	1052	11.66	
02		CONG PCB 0.0	05/11/11	1118		
03	OU4-SD-M08-1	WG90791-4	05/11/11	1151	11.67	
04	OU4-SD-M08-1	WG90791-5	05/11/11	1241	11.68	
05	WG90791-BLAN	WG90791-1	05/11/11	1307	11.66	
06	WG90791-LCS	WG90791-2	05/11/11	1333	11.67	
07	WG90791-LCSD	WG90791-3	05/11/11	1400	11.67	
08		CONG SS 0.05	05/11/11	1426	11.66	
09		CONG PCB 0.0	05/11/11	1452		
10	OU4-SD-M09-2	SE2074-11	05/11/11	1518	11.66	
11	OU4-SD-M09-3	SE2074-12	05/11/11	1544	11.67	
12	OU4-SD-M08-2	SE2074-13	05/11/11	1610	11.67	
13	OU4-SD-M07-2	SE2074-14	05/11/11	1636	11.67	
14	OU4-SD-M07-3	SE2074-15	05/11/11	1702	11.67	
15	OU4-SD-M07-1	SE2074-26	05/11/11	1728	11.67	
16	OU4-SD-M08-3	SE2074-27	05/11/11	1754	11.68	
17	OU4-SD-FD-04	SE2074-28	05/11/11	1820	11.68	
18	OU4-SD-M08-1	SE2074-29	05/11/11	1846	11.68	
19	OU4-SD-M09-1	SE2074-30	05/11/11	1912	11.68	
20		CONG SS 0.05	05/11/11	2005	11.67	

S3 = PCB 192

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm) Init. Calib. Date(s): 05/05/11 05/05/11

Instrument ID: GC07

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 11.72

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT #	RT #
01		CONG PCB 0.0	05/11/11	2031		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

S3 = PCB 192

QC LIMITS
(+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1052

Lab File ID: 7EE236 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	4.91e-002	5.e-002	178920000	0.001	-1.80	15.00	LINR
PCB 103	4.9e-002	5.e-002	74263000	0.001	-2.00	15.00	2RDR
PCB 192	5.19e-002	5.e-002	98768000	0.001	3.80	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1118

Lab File ID: 7EE237 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	5.03e-002	5.e-002	62799000	0.001	0.60	15.00	2RDR	
PCB 8	4.87e-002	5.e-002	37370000	0.001	-2.60	15.00	2RDR	
PCB 18	4.96e-002	5.e-002	41594000	0.001	-0.80	15.00	2RDR	
PCB 28	5.1e-002	5.e-002	88879000	0.001	2.00	15.00	2RDR	
PCB 52	4.98e-002	5.e-002	5123200[illegible]	0.001	-0.40	15.00	2RDR	
PCB 44	5.04e-002	5.e-002	77730000	0.001	0.80	15.00	2RDR	
PCB 66	5.21e-002	5.e-002	87610000	0.001	4.20	15.00	2RDR	
PCB 101	5.2e-002	5.e-002	67431000	0.001	4.00	15.00	2RDR	
PCB 118	5.42e-002	5.e-002	74741000	0.001	8.40	15.00	2RDR	
PCB 153	5.3e-002	5.e-002	65105000	0.001	6.00	15.00	2RDR	
PCB 105	5.5e-002	5.e-002	86242000	0.001	10.00	15.00	2RDR	
PCB 138	5.3e-002	5.e-002	72925000	0.001	6.00	15.00	2RDR	
PCB 187	5.42e-002	5.e-002	68674000	0.001	8.40	15.00	2RDR	
PCB 128	5.28e-002	5.e-002	80975000	0.001	5.60	15.00	2RDR	
PCB 180	5.31e-002	5.e-002	87846000	0.001	6.20	15.00	2RDR	
PCB 170	5.36e-002	5.e-002	81006000	0.001	7.20	15.00	2RDR	
PCB 195	5.31e-002	5.e-002	85623000	0.001	6.20	15.00	2RDR	
PCB 206	5.08e-002	5.e-002	73809000	0.001	1.60	15.00	2RDR	
PCB 114	5.45e-002	5.e-002	104920000	0.001	9.00	15.00	2RDR	
PCB 123	5.4e-002	5.e-002	76057000	0.001	8.00	15.00	2RDR	
PCB 126	6.39e-002	5.e-002	48503000	0.001	27.80	15.00	2RDR	<-
PCB 156	5.73e-002	5.e-002	96688000	0.001	14.60	15.00	2RDR	
PCB 167	5.69e-002	5.e-002	78635000	0.001	13.80	15.00	2RDR	
PCB 169	6.35e-002	5.e-002	64100000	0.001	27.00	15.00	2RDR	<-
PCB 189	5.62e-002	5.e-002	92847000	0.001	12.40	15.00	2RDR	
PCB 157	5.59e-002	5.e-002	81137000	0.001	11.80	15.00	2RDR	
PCB 77	6.01e-002	5.e-002	41699000	0.001	20.20	15.00	2RDR	<-
PCB 81	5.66e-002	5.e-002	57867000	0.001	13.20	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1426

Lab File ID: 7EE243 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	5.29e-002	5.e-002	192400000	0.001	5.80	15.00	LINR
PCB 103	5.02e-002	5.e-002	76055000	0.001	0.40	15.00	2RDR
PCB 192	5.26e-002	5.e-002	100130000	0.001	5.20	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 1452

Lab File ID: 7EE244 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	5.e-002	5.e-002	62416000	0.001	0.00	15.00	2RDR	
PCB 8	5.04e-002	5.e-002	38651000	0.001	0.80	15.00	2RDR	
PCB 18	5.13e-002	5.e-002	42996000	0.001	2.60	15.00	2RDR	
PCB 28	5.23e-002	5.e-002	91062000	0.001	4.60	15.00	2RDR	
PCB 52	5.03e-002	5.e-002	57759000	0.001	0.60	15.00	2RDR	
PCB 44	5.09e-002	5.e-002	78522000	0.001	1.80	15.00	2RDR	
PCB 66	5.23e-002	5.e-002	87966000	0.001	4.60	15.00	2RDR	
PCB 101	5.16e-002	5.e-002	66869000	0.001	3.20	15.00	2RDR	
PCB 118	5.41e-002	5.e-002	74648000	0.001	8.20	15.00	2RDR	
PCB 153	5.31e-002	5.e-002	65284000	0.001	6.20	15.00	2RDR	
PCB 105	5.56e-002	5.e-002	87058000	0.001	11.20	15.00	2RDR	
PCB 138	5.31e-002	5.e-002	73049000	0.001	6.20	15.00	2RDR	
PCB 187	5.34e-002	5.e-002	67783000	0.001	6.80	15.00	2RDR	
PCB 128	5.3e-002	5.e-002	81177000	0.001	6.00	15.00	2RDR	
PCB 180	5.29e-002	5.e-002	87587000	0.001	5.80	15.00	2RDR	
PCB 170	5.5e-002	5.e-002	83120000	0.001	10.00	15.00	2RDR	
PCB 195	5.35e-002	5.e-002	86287000	0.001	7.00	15.00	2RDR	
PCB 206	5.17e-002	5.e-002	75093000	0.001	3.40	15.00	2RDR	
PCB 114	5.45e-002	5.e-002	104880000	0.001	9.00	15.00	2RDR	
PCB 123	5.39e-002	5.e-002	75901000	0.001	7.80	15.00	2RDR	
PCB 126	6.44e-002	5.e-002	48861000	0.001	28.80	15.00	2RDR	<-
PCB 156	5.75e-002	5.e-002	97108000	0.001	15.00	15.00	2RDR	
PCB 167	5.62e-002	5.e-002	77750000	0.001	12.40	15.00	2RDR	
PCB 169	6.58e-002	5.e-002	66443000	0.001	31.60	15.00	2RDR	<-
PCB 189	5.76e-002	5.e-002	95092000	0.001	15.20	15.00	2RDR	<-
PCB 157	5.53e-002	5.e-002	80254000	0.001	10.60	15.00	2RDR	
PCB 77	6.e-002	5.e-002	41666000	0.001	20.00	15.00	2RDR	<-
PCB 81	5.73e-002	5.e-002	58577000	0.001	14.60	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 2005

Lab File ID: 7EE256 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 0924 1134

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Tetrachloro-m-Xylene	4.8e-002	5.e-002	175100000	0.001	-4.00	15.00	LINR
PCB 103	4.51e-002	5.e-002	68390000	0.001	-9.80	15.00	2RDR
PCB 192	4.69e-002	5.e-002	89422000	0.001	-6.20	15.00	2RDR

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GC07 Calibration Date: 05/11/11 Time: 2031

Lab File ID: 7EE257 Init. Calib. Date(s): 05/05/11 05/05/11

Init. Calib. Times: 1437 1647

GC Column: RTX-CLPESTICIDES2 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
PCB 209 (DCB)	4.49e-002	5.e-002	56107000	0.001	-10.20	15.00	2RDR	
PCB 8	4.63e-002	5.e-002	35550000	0.001	-7.40	15.00	2RDR	
PCB 18	4.61e-002	5.e-002	38639000	0.001	-7.80	15.00	2RDR	
PCB 28	4.64e-002	5.e-002	80936000	0.001	-7.20	15.00	2RDR	
PCB 52	4.52e-002	5.e-002	52067000	0.001	-9.60	15.00	2RDR	
PCB 44	4.59e-002	5.e-002	70900000	0.001	-8.20	15.00	2RDR	
PCB 66	4.69e-002	5.e-002	78982000	0.001	-6.20	15.00	2RDR	
PCB 101	4.7e-002	5.e-002	60987000	0.001	-6.00	15.00	2RDR	
PCB 118	4.91e-002	5.e-002	67709000	0.001	-1.80	15.00	2RDR	
PCB 153	4.73e-002	5.e-002	58169000	0.001	-5.40	15.00	2RDR	
PCB 105	5.e-002	5.e-002	78150000	0.001	0.00	15.00	2RDR	
PCB 138	4.78e-002	5.e-002	65803000	0.001	-4.40	15.00	2RDR	
PCB 187	4.82e-002	5.e-002	61193000	0.001	-3.60	15.00	2RDR	
PCB 128	4.84e-002	5.e-002	74165000	0.001	-3.20	15.00	2RDR	
PCB 180	4.79e-002	5.e-002	79426000	0.001	-4.20	15.00	2RDR	
PCB 170	4.88e-002	5.e-002	73695000	0.001	-2.40	15.00	2RDR	
PCB 195	4.83e-002	5.e-002	77929000	0.001	-3.40	15.00	2RDR	
PCB 206	4.57e-002	5.e-002	66428000	0.001	-8.60	15.00	2RDR	
PCB 114	4.91e-002	5.e-002	94315000	0.001	-1.80	15.00	2RDR	
PCB 123	4.83e-002	5.e-002	68002000	0.001	-3.40	15.00	2RDR	
PCB 126	5.78e-002	5.e-002	43730000	0.001	15.60	15.00	2RDR	<-
PCB 156	5.21e-002	5.e-002	87853000	0.001	4.20	15.00	2RDR	
PCB 167	5.16e-002	5.e-002	71326000	0.001	3.20	15.00	2RDR	
PCB 169	5.98e-002	5.e-002	60205000	0.001	19.60	15.00	2RDR	<-
PCB 189	5.11e-002	5.e-002	84327000	0.001	2.20	15.00	2RDR	
PCB 157	5.04e-002	5.e-002	73011000	0.001	0.80	15.00	2RDR	
PCB 77	5.35e-002	5.e-002	36994000	0.001	7.00	15.00	2RDR	
PCB 81	5.13e-002	5.e-002	52336000	0.001	2.60	15.00	2RDR	

FORM VII PEST

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90791-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab Sample ID: WG90791-1 Lab File ID: 7EE240

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SW846 3550

Sulfur Cleanup: (Y/N) Y Date Extracted: 04/28/11

Date Analyzed (1): 05/11/11 Date Analyzed (2): 05/11/11

Time Analyzed (1): 1307 Time Analyzed (2): 1307

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column (1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column (2): RTX-CLPESTICIDES2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	OU4-SD-M08-111BMS	WG90791-4	7EE238	05/11/11	05/11/11
02	OU4-SD-M08-111BMSD	WG90791-5	7EE239	05/11/11	05/11/11
03	WG90791-LCS	WG90791-2	7EE241	05/11/11	05/11/11
04	WG90791-LCSD	WG90791-3	7EE242	05/11/11	05/11/11
05	OU4-SD-M09-211B	SE2074-11	7EE245	05/11/11	05/11/11
06	OU4-SD-M09-311B	SE2074-12	7EE246	05/11/11	05/11/11
07	OU4-SD-M08-211B	SE2074-13	7EE247	05/11/11	05/11/11
08	OU4-SD-M07-211B	SE2074-14	7EE248	05/11/11	05/11/11
09	OU4-SD-M07-311B	SE2074-15	7EE249	05/11/11	05/11/11
10	OU4-SD-M07-111B	SE2074-26	7EE250	05/11/11	05/11/11
11	OU4-SD-M08-311B	SE2074-27	7EE251	05/11/11	05/11/11
12	OU4-SD-FD-041911-03	SE2074-28	7EE252	05/11/11	05/11/11
13	OU4-SD-M08-111B	SE2074-29	7EE253	05/11/11	05/11/11
14	OU4-SD-M09-111B	SE2074-30	7EE254	05/11/11	05/11/11
15					
16					
17					
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22					
23					
24					

COMMENTS:

FORM IVPCB

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90791-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 28-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: NA
Report Date: 24-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.50	ug/Kgdrywt	2	1	1.0	0.36	0.50
PCB 18	U	2.0	ug/Kgdrywt	2	3	3.0	1.8	2.0
PCB 28	U	0.50	ug/Kgdrywt	2	1	1.0	0.16	0.50
PCB 44	U	0.50	ug/Kgdrywt	2	1	1.0	0.065	0.50
PCB 52	U	0.50	ug/Kgdrywt	2	1	1.0	0.075	0.50
PCB 66	U	0.50	ug/Kgdrywt	2	1	1.0	0.084	0.50
PCB 101	U	0.50	ug/Kgdrywt	2	1	1.0	0.42	0.50
PCB 105	U	1.0	ug/Kgdrywt	2	2	2.0	0.82	1.0
PCB 118	U	0.50	ug/Kgdrywt	2	1	1.0	0.067	0.50
PCB 128	U	0.50	ug/Kgdrywt	2	1	1.0	0.11	0.50
PCB 138	U	0.50	ug/Kgdrywt	2	1	1.0	0.093	0.50
PCB 153	J	0.12	ug/Kgdrywt	2	1	1.0	0.054	0.50
PCB 170	J	0.19	ug/Kgdrywt	2	1	1.0	0.10	0.50
PCB 180	U	0.50	ug/Kgdrywt	2	1	1.0	0.16	0.50
PCB 187	U	0.50	ug/Kgdrywt	2	1	1.0	0.11	0.50
PCB 195	U	0.50	ug/Kgdrywt	2	1	1.0	0.055	0.50
PCB 206	U	0.50	ug/Kgdrywt	2	1	1.0	0.069	0.50
PCB 209 (DCB)	U	0.50	ug/Kgdrywt	2	1	1.0	0.064	0.50
PCB 114	U	0.50	ug/Kgdrywt	2	1	1.0	0.090	0.50
PCB 123	U	0.50	ug/Kgdrywt	2	1	1.0	0.16	0.50
PCB 126	U	0.50	ug/Kgdrywt	2	1	1.0	0.16	0.50
PCB 156	U	0.50	ug/Kgdrywt	2	1	1.0	0.11	0.50
PCB 167	U	0.50	ug/Kgdrywt	2	1	1.0	0.058	0.50
PCB 169	U	0.50	ug/Kgdrywt	2	1	1.0	0.13	0.50
PCB 189	U	0.50	ug/Kgdrywt	2	1	1.0	0.069	0.50
PCB 157	U	0.50	ug/Kgdrywt	2	1	1.0	0.080	0.50
PCB 77	U	0.50	ug/Kgdrywt	2	1	1.0	0.20	0.50
PCB 81	U	0.50	ug/Kgdrywt	2	1	1.0	0.25	0.50
Tetrachloro-M-Xylene		58.0	%					
PCB 103		64.0	%					
PCB 192		70.6	%					

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ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90791-2
LCSD ID: WG90791-3
Project:
SDG: WE29-1
Report Date: 25-MAY-11

Received Date: 28-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
PCB 8	6.67	4.46	66.9	4.53	67.9	ug/Kgdrywt	2	30	50-150
PCB 18	6.67	J5.38	80.6	J4.94	74.1	ug/Kgdrywt	8	30	50-150
PCB 28	6.67	J5.26	78.9	4.96	74.4	ug/Kgdrywt	6	30	50-150
PCB 44	6.67	5.14	77.1	4.84	72.6	ug/Kgdrywt	6	30	50-150
PCB 52	6.67	5.53	82.9	4.58	68.7	ug/Kgdrywt	19	30	50-150
PCB 66	6.67	5.15	77.2	4.76	71.4	ug/Kgdrywt	8	30	50-150
PCB 101	6.67	5.95	89.2	5.50	82.4	ug/Kgdrywt	8	30	50-150
PCB 105	6.67	J5.43	81.4	J5.74	86.0	ug/Kgdrywt	6	30	50-150
PCB 118	6.67	5.67	85.0	5.60	84.0	ug/Kgdrywt	1	30	50-150
PCB 128	6.67	5.94	89.0	5.45	81.7	ug/Kgdrywt	9	30	50-150
PCB 138	6.67	J6.26	93.8	5.73	85.9	ug/Kgdrywt	9	30	50-150
PCB 153	6.67	J11.6	174.	J10.2	153.	ug/Kgdrywt	13	30	50-150
PCB 170	6.67	6.16	92.4	5.71	85.6	ug/Kgdrywt	8	30	50-150
PCB 180	6.67	J6.21	93.1	5.72	85.8	ug/Kgdrywt	8	30	50-150
PCB 187	6.67	6.20	93.0	5.57	83.5	ug/Kgdrywt	11	30	50-150
PCB 195	6.67	J6.07	91.0	J5.44	81.6	ug/Kgdrywt	11	30	50-150
PCB 206	6.67	6.42	96.2	5.64	84.6	ug/Kgdrywt	13	30	50-150
PCB 209 (DCB)	6.67	5.64	84.6	5.00	75.0	ug/Kgdrywt	12	30	50-150
PCB 114	6.67	J6.49	97.3	J5.93	88.9	ug/Kgdrywt	9	30	50-150
PCB 123	6.67	J5.35	80.2	5.00	75.0	ug/Kgdrywt	7	30	50-150
PCB 126	6.67	8.30	124.	7.42	111.	ug/Kgdrywt	11	30	50-150
PCB 156	6.67	J4.97	74.5	J4.64	69.6	ug/Kgdrywt	7	30	50-150
PCB 167	6.67	J6.56	98.4	5.96	89.4	ug/Kgdrywt	10	30	50-150
PCB 169	6.67	7.92	119.	7.25	109.	ug/Kgdrywt	9	30	50-150
PCB 189	6.67	6.73	101.	6.12	91.8	ug/Kgdrywt	9	30	50-150
PCB 157	6.67	J6.76	101.	J6.08	91.2	ug/Kgdrywt	10	30	50-150
PCB 77	6.67	8.12	122.	6.86	103.	ug/Kgdrywt	17	30	50-150
PCB 81	6.67	J4.42	66.3	J4.22	63.3	ug/Kgdrywt	5	30	50-150
Tetrachloro-M-Xylene			65.1		63.4				50-150
PCB 103			81.2		72.9				50-150
PCB 192			166.*		150				50-150

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FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG90689-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Lab Sample ID: WG90689-1 Lab File ID: 7EE126

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SW846 3510

Sulfur Cleanup: (Y/N) N Date Extracted: 04/25/11

Date Analyzed (1): 05/05/11 Date Analyzed (2): 05/05/11

Time Analyzed (1): 1739 Time Analyzed (2): 1739

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column (1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column (2): RTX-CLPESTICIDES2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG90689-LCS	WG90689-2	7EE127	05/05/11	05/05/11
02	WG90689-LCSD	WG90689-3	7EE128	05/05/11	05/05/11
03	OU4-RB-042011-01	SE2074-32	7EE131	05/05/11	05/05/11
04	OU4-SB-042011-01	SE2074-33	7EE132	05/05/11	05/05/11
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COMMENTS:

FORM IVPCB

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG90689-1
Client ID: Method Blank Sample
Project:
SDG: WE29-1

Sample Date:
Received Date: 25-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90689

Analysis Date: 05-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: AQ
% Solids: NA
Report Date: 25-MAY-11

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
PCB 8	U	0.050	ug/L	1	.1	0.10	0.044	0.050
PCB 18	U	0.050	ug/L	1	.1	0.10	0.018	0.050
PCB 28	U	0.050	ug/L	1	.1	0.10	0.028	0.050
PCB 44	U	0.0080	ug/L	1	.01	0.010	0.0065	0.0080
PCB 52	U	0.0050	ug/L	1	.01	0.010	0.0027	0.0050
PCB 66	U	0.0050	ug/L	1	.01	0.010	0.0035	0.0050
PCB 101	U	0.0090	ug/L	1	.01	0.010	0.0081	0.0090
PCB 105	U	0.0050	ug/L	1	.01	0.010	0.0030	0.0050
PCB 118	U	0.0050	ug/L	1	.01	0.010	0.0023	0.0050
PCB 128	U	0.0080	ug/L	1	.01	0.010	0.0055	0.0080
PCB 138	U	0.0050	ug/L	1	.01	0.010	0.0023	0.0050
PCB 153	U	0.0050	ug/L	1	.01	0.010	0.0013	0.0050
PCB 170	U	0.0050	ug/L	1	.01	0.010	0.0021	0.0050
PCB 180	U	0.0050	ug/L	1	.01	0.010	0.0048	0.0050
PCB 187	U	0.0080	ug/L	1	.01	0.010	0.0073	0.0080
PCB 195	U	0.050	ug/L	1	.1	0.10	0.010	0.050
PCB 206	U	0.0050	ug/L	1	.01	0.010	0.0023	0.0050
PCB 209 (DCB)	U	0.0050	ug/L	1	.01	0.010	0.0024	0.0050
PCB 114	U	0.0050	ug/L	1	.01	0.010	0.0016	0.0050
PCB 123	U	0.015	ug/L	1	.02	0.020	0.010	0.015
PCB 126	U	0.050	ug/L	1	.1	0.10	0.016	0.050
PCB 156	U	0.0050	ug/L	1	.01	0.010	0.0013	0.0050
PCB 167	U	0.0050	ug/L	1	.01	0.010	0.0048	0.0050
PCB 169	U	0.0050	ug/L	1	.01	0.010	0.0070	0.0050
PCB 189	U	0.050	ug/L	1	.1	0.10	0.013	0.050
PCB 157	U	0.0050	ug/L	1	.01	0.010	0.0031	0.0050
PCB 77	U	0.0050	ug/L	1	.01	0.010	0.0032	0.0050
PCB 81	U	0.0050	ug/L	1	.01	0.010	0.0041	0.0050
Tetrachloro-M-Xylene		85.0	%					
PCB 103		98.5	%					
PCB 192		93.5	%					

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Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG90689-2
LCSD ID: WG90689-3
Project:
SDG: WE29-1
Report Date: 25-MAY-11

Received Date: 25-APR-11
Extract Date: 25-APR-11
Extracted By: KD
Extraction Method: SW846 3510
Lab Prep Batch: WG90689

Analysis Date: 05-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
PCB 8	0.200	0.161	80.5	0.165	82.5	ug/L	2	30	50-150
PCB 18	0.200	0.184	92.0	0.192	96.0	ug/L	4	30	50-150
PCB 28	0.200	0.188	94.0	0.198	99.0	ug/L	5	30	50-150
PCB 44	0.200	0.188	94.0	0.200	100.	ug/L	6	30	50-150
PCB 52	0.200	0.181	90.5	0.193	96.5	ug/L	6	30	50-150
PCB 66	0.200	0.168	84.0	0.181	90.5	ug/L	7	30	50-150
PCB 101	0.200	0.201	100.	0.215	108.	ug/L	7	30	50-150
PCB 105	0.200	0.197	98.5	0.211	106.	ug/L	7	30	50-150
PCB 118	0.200	0.196	98.0	0.208	104.	ug/L	6	30	50-150
PCB 128	0.200	0.194	97.0	0.207	104.	ug/L	6	30	50-150
PCB 138	0.200	0.199	99.5	0.213	106.	ug/L	7	30	50-150
PCB 153	0.200	J0.366	183	J0.391	196.	ug/L	7	30	50-150
PCB 170	0.200	0.199	99.5	0.210	105.	ug/L	5	30	50-150
PCB 180	0.200	0.194	97.0	0.208	104.	ug/L	7	30	50-150
PCB 187	0.200	0.199	99.5	0.214	107.	ug/L	7	30	50-150
PCB 195	0.200	0.191	95.5	0.205	102.	ug/L	7	30	50-150
PCB 206	0.200	0.205	102.	0.221	110.	ug/L	8	30	50-150
PCB 209 (DCB)	0.200	0.184	92.0	0.199	99.5	ug/L	8	30	50-150
PCB 114	0.200	J0.209	104.	J0.222	111.	ug/L	6	30	50-150
PCB 123	0.200	0.192	96.0	0.204	102.	ug/L	6	30	50-150
PCB 126	0.200	0.237	118.	0.255	128.	ug/L	7	30	50-150
PCB 156	0.200	J0.204	102.	J0.218	109.	ug/L	7	30	50-150
PCB 167	0.200	0.200	100.	0.217	108.	ug/L	8	30	50-150
PCB 169	0.200	0.219	110.	0.236	118.	ug/L	7	30	50-150
PCB 189	0.200	0.207	104.	0.224	112.	ug/L	8	30	50-150
PCB 157	0.200	J0.208	104.	J0.221	110.	ug/L	6	30	50-150
PCB 77	0.200	0.213	106.	0.226	113.	ug/L	6	30	50-150
PCB 81	0.200	J0.190	95.0	J0.203	102.	ug/L	7	30	50-150
Tetrachloro-M-Xylene			69.0		83.0				50-150
PCB 103			96.5		104.				50-150
PCB 192			163.*		179.*				50-150

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Cert No E87604

MS/MSD Recovery Report

MS ID: WG90791-4
MSD ID: WG90791-5
Sample ID: SE2074-29
Client ID: OU4-SD-M08-111B
Project:
SDG: WE29-1

Received Date: 20-APR-11
Extract Date: 28-APR-11
Extracted By: KD
Extraction Method: SW846 3550
Lab Prep Batch: WG90791
Report Date: 25-MAY-11

Analysis Date: 11-MAY-11
Analyst: JLP
Analysis Method: SW846 M8082
Matrix: SL
% Solids: 68.

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
PCB 8	9.74	9.77	ug/Kgdrywt	U0.72	7.5	7.0	76.9	71.3	7	30	50-150
PCB 18	9.74	9.77	ug/Kgdrywt	U2.9	6.4	6.4	66.0	65.9	0	30	50-150
PCB 28	9.74	9.77	ug/Kgdrywt	U0.72	6.0	6.2	62.0	63.1	2	30	50-150
PCB 44	9.74	9.77	ug/Kgdrywt	U0.72	J6.6	J7.1	68.2	72.3	6	30	50-150
PCB 52	9.74	9.77	ug/Kgdrywt	U0.72	J6.4	J6.2	66.2	63.3	4	30	50-150
PCB 66	9.74	9.77	ug/Kgdrywt	J0.61	6.2	J7.9	57.9	74.4	23	30	50-150
PCB 101	9.74	9.77	ug/Kgdrywt	U0.72	7.1	J8.6	72.5	88.3	20	30	50-150
PCB 105	9.74	9.77	ug/Kgdrywt	U1.4	7.6	10.	78.2	102.	27	30	50-150
PCB 118	9.74	9.77	ug/Kgdrywt	J0.44	7.4	11.	71.4	108.	39*	30	50-150
PCB 128	9.74	9.77	ug/Kgdrywt	U0.72	J7.5	J11.	77.0	112.	37*	30	50-150
PCB 138	9.74	9.77	ug/Kgdrywt	U0.72	6.8	13.	69.9	134.	66*	30	50-150
PCB 153	9.74	9.77	ug/Kgdrywt	U0.72	J15.	J21.	155.	211.	31*	30	50-150
PCB 170	9.74	9.77	ug/Kgdrywt	JJ0.70	8.1	9.6	79.8	95.2	17	30	50-150
PCB 180	9.74	9.77	ug/Kgdrywt	JJ1.2	J9.9	J10.	95.7	101.	6	30	50-150
PCB 187	9.74	9.77	ug/Kgdrywt	U0.72	7.4	7.5	75.6	76.7	2	30	50-150
PCB 195	9.74	9.77	ug/Kgdrywt	U0.72	J6.7	J7.2	69.0	73.6	7	30	50-150
PCB 206	9.74	9.77	ug/Kgdrywt	JJ0.36	J7.6	J8.0	76.8	80.9	5	30	50-150
PCB 209 (DCB)	9.74	9.77	ug/Kgdrywt	U0.72	6.0	6.0	61.8	61.7	0	30	50-150
PCB 114	9.74	9.77	ug/Kgdrywt	U0.72	J8.2	J7.9	84.3	81.0	4	30	50-150
PCB 123	9.74	9.77	ug/Kgdrywt	U0.72	7.3	J8.8	75.2	90.0	18	30	50-150
PCB 126	9.74	9.77	ug/Kgdrywt	U0.72	J10.	J12.	102.	125.	20	30	50-150
PCB 156	9.74	9.77	ug/Kgdrywt	U0.72	J5.2	J6.7	52.9	68.6	26	30	50-150
PCB 167	9.74	9.77	ug/Kgdrywt	U0.72	J7.4	J8.4	76.4	86.3	12	30	50-150
PCB 169	9.74	9.77	ug/Kgdrywt	U0.72	8.0	9.0	81.7	92.3	12	30	50-150
PCB 189	9.74	9.77	ug/Kgdrywt	U0.72	7.5	8.0	76.7	82.1	7	30	50-150
PCB 157	9.74	9.77	ug/Kgdrywt	U0.72	J7.4	J8.1	76.2	83.2	9	30	50-150
PCB 77	9.74	9.77	ug/Kgdrywt	U0.72	9.0	7.4	92.6	75.6	1	30	50-150
PCB 81	9.74	9.77	ug/Kgdrywt	J0.62	J5.7	J4.7	52.0	41.8	19	30	50-150
Tetrachloro-M-Xylene							70.0	74.9			50-150
PCB 103							58.2	63.8			50-150
PCB 192							131.	165.*			50-150

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http://www.katahdinlab.com

FORM 2
SOIL PCB SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column(1): RTX-CLPESTICIDESID: 0.53 (mm) GC Column(2): RTX-CLPESTICIDES2ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	S2 1 REC#	S2 2 REC#	OTR (1)	OTR (2)	TOT OUT
01	OU4-SD-M08-111BMS	WG90791-4	60	70	42*	58	70	132	1
02	OU4-SD-M08-111BMSD	WG90791-5	60	75	42*	64	73	165*	2
03	WG90791-BLANK	WG90791-1	44*	58	28*	64	52	70	2
04	WG90791-LCS	WG90791-2	53	65	38*	81	102	166*	2
05	WG90791-LCSD	WG90791-3	47*	63	30*	73	95	150	2
06	OU4-SD-M09-211B	SE2074-11	45*	56	28*	55	31*	62	3
07	OU4-SD-M09-311B	SE2074-12	39*	48*	26*	40*	26*	55	5
08	OU4-SD-M08-211B	SE2074-13	48*	63	34*	54	41*	70	3
09	OU4-SD-M07-211B	SE2074-14	49*	65	32*	55	35*	62	3
10	OU4-SD-M07-311B	SE2074-15	46*	60	32*	50	35*	59	3
11	OU4-SD-M07-111B	SE2074-26	50	67	36*	64	36*	68	2
12	OU4-SD-M08-311B	SE2074-27	51	69	40*	64	42*	71	2
13	OU4-SD-FD-041911-03	SE2074-28	44*	55	33*	54	32*	59	3
14	OU4-SD-M08-111B	SE2074-29	52	70	37*	62	40*	71	2
15	OU4-SD-M09-111B	SE2074-30	37*	48*	26*	40*	24*	50	5
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									

		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-Xylene	(50-150)
S2	= PCB 103	(50-150)
OTHER	= PCB 192	(50-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
WATER PCB SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

GC Column(1): RTX-CLPESTICIDESID: 0.53 (mm) GC Column(2): RTX-CLPESTICIDES2ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	S2 1 REC#	S2 2 REC#	OTR (1)	OTR (2)	TOT OUT
01	WG90689-BLANK	WG90689-1	77	85	98	93	94	91	0
02	WG90689-LCS	WG90689-2	63	69	96	93	137	163*	1
03	WG90689-LCSD	WG90689-3	75	83	104	99	151*	179*	2
04	OU4-RB-042011-01	SE2074-32	76	85	91	90	91	88	0
05	OU4-SB-042011-01	SE2074-33	83	93	94	91	94	91	0
06									
07									
08									
09									
10									
11									
12									
13									
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20									
21									
22									
23									
24									
25									
26									
27									
28									

		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-Xylene	(50-150)
S2	= PCB 103	(50-150)
OTHER	= PCB 192	(50-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M07-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-14 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 66	1	6.12	6.08	6.22	3.02	C
	2	7.33	7.27	7.41	1.12	91.8
PCB 118	1	7.30	7.24	7.38	1.35	C
	2	8.91	8.85	8.99	1.27	6.1
PCB 153	1	7.58	7.51	7.65	1.86	
	2	9.30	9.24	9.38	1.43	26.1
PCB 180	1	9.38	9.32	9.46	0.514	
	2	12.00	11.94	12.08	1.94	116.2
PCB 170	1	10.08	10.01	10.15	0.736	
	2	13.14	13.10	13.24	0.704	4.4
PCB 206	1	12.62	12.57	12.71	0.829	C
	2	16.25	16.19	16.33	0.710	15.5
PCB 77	1	7.03	6.98	7.12	3.09	
	2	8.54	8.46	8.60	3.01	2.6
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M07-311B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-15 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 118	1	7.30	7.24	7.38	0.708	
	2	8.92	8.85	8.99	0.578	20.2
PCB 153	1	7.58	7.51	7.65	1.50	
	2	9.30	9.24	9.38	1.26	17.4
PCB 180	1	9.38	9.32	9.46	0.946	
	2	12.01	11.94	12.08	1.83	63.7
PCB 170	1	10.08	10.01	10.15	0.577	
	2	13.15	13.10	13.24	0.747	25.7
PCB 206	1	12.63	12.57	12.71	0.341	
	2	16.26	16.19	16.33	0.272	22.5
PCB 114	1	7.43	7.33	7.47	1.10	
	2	9.21	9.16	9.30	1.20	8.7
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-111B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-29 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 66	1	6.13	6.08	6.22	0.608	C
	2	7.33	7.27	7.41	0.584	4.0
PCB 118	1	7.31	7.24	7.38	0.437	C
	2	8.92	8.85	8.99	0.417	4.7
PCB 180	1	9.39	9.32	9.46	0.598	
	2	12.02	11.94	12.08	1.18	65.5
PCB 170	1	10.09	10.01	10.15	0.322	
	2	13.16	13.10	13.24	0.700	74.0
PCB 206	1	12.62	12.57	12.71	0.144	
	2	16.26	16.19	16.33	0.360	85.7
PCB 81	1	6.87	6.78	6.92	0.491	
	2	8.29	8.20	8.34	0.617	22.7
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-13 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 209 (DCB)	1	13.21	13.16	13.30	0.721	C
	2	17.19	17.13	17.27	0.659	9.0
PCB 52	1	5.30	5.23	5.37	0.378	
	2	6.34	6.28	6.42	0.872	79.0
PCB 44	1	5.58	5.51	5.65	0.458	C
	2	6.72	6.65	6.79	0.433	5.6
PCB 66	1	6.12	6.08	6.22	2.06	
	2	7.33	7.27	7.41	2.35	13.2
PCB 101	1	6.38	6.31	6.45	1.57	C
	2	7.62	7.55	7.69	1.05	39.7
PCB 118	1	7.30	7.24	7.38	1.83	C
	2	8.91	8.85	8.99	1.49	20.5
PCB 187	1	8.24	8.18	8.32	1.20	
	2	10.44	10.38	10.52	1.67	32.8
PCB 180	1	9.38	9.32	9.46	2.40	
	2	12.00	11.94	12.08	4.27	56.1

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FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-13 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 206	1	12.62	12.57	12.71	1.17	
	2	16.25	16.19	16.33	2.37	67.8
PCB 169	1	10.17	10.09	10.23	3.21	
	2	12.82	12.73	12.87	0.795	120.6
PCB 81	1	6.86	6.78	6.92	3.25	C
	2	8.28	8.20	8.34	2.67	19.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M08-311B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-27 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 66	1	6.13	6.08	6.22	0.329	
	2	7.33	7.27	7.41	0.446	30.2
PCB 187	1	8.25	8.18	8.32	0.753	
	2	10.46	10.38	10.52	1.17	43.4
PCB 180	1	9.39	9.32	9.46	1.46	
	2	12.01	11.94	12.08	2.33	45.9
PCB 170	1	10.08	10.01	10.15	0.672	
	2	13.16	13.10	13.24	1.23	58.7
PCB 206	1	12.63	12.57	12.71	0.143	
	2	16.27	16.19	16.33	0.208	37.0
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-111B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-30 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 209 (DCB)	1	13.23	13.16	13.30	4.62	
	2	17.20	17.13	17.27	6.72	37.0
PCB 66	1	6.13	6.06	6.20	2.83	
	2	7.34	7.27	7.41	1.58	56.7
PCB 101	1	6.39	6.31	6.45	2.60	
	2	7.63	7.55	7.69	3.15	19.1
PCB 118	1	7.31	7.24	7.38	2.90	
	2	8.93	8.85	8.99	4.69	47.2
PCB 153	1	7.59	7.51	7.65	4.10	
	2	9.31	9.24	9.38	4.20	2.4
PCB 105 Manually entered	1	7.74	7.67	7.81	1.62	
	2	9.75	9.68	9.82	2.56	45.0
PCB 138	1	8.05	7.98	8.12	2.28	
	2	10.21	10.15	10.29	3.32	37.1
PCB 187	1	8.25	8.18	8.32	1.80	
	2	10.46	10.38	10.52	2.94	48.1

C

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FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-111B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-30 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 180	1	9.39	9.32	9.46	2.11	
	2	12.02	11.94	12.08	3.42	47.4
PCB 206	1	12.64	12.57	12.[illegible]	17.0	
	2	16.26	16.19	16.33	29.3	53.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

OU4-SD-M09-211B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-11 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 118	1	7.29	7.24	7.38	1.32	
	2	8.91	8.85	8.99	1.61	19.8
PCB 153	1	7.58	7.51	7.65	2.61	
	2	9.30	9.24	9.38	2.41	8.0
PCB 169	1	10.17	10.09	10.23	2.10	
	2	12.80	12.73	12.87	1.85	12.6
PCB 77	1	7.03	6.98	7.12	4.18	→ C
	2	8.54	8.46	8.60	4.07	2.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-311B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-12 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 209 (DCB)	1	13.21	13.16	13.30	1.55	C
	2	17.19	17.13	17.27	1.07	36.6
PCB 52	1	5.31	5.23	5.37	0.734	
	2	6.34	6.28	6.42	0.930	23.6
PCB 44	1	5.58	5.51	5.65	0.522	
	2	6.72	6.65	6.79	0.695	28.4
PCB 66	1	6.12	6.08	6.22	2.96	C
	2	7.33	7.27	7.41	2.15	31.7
PCB 101	1	6.38	6.31	6.45	2.21	
	2	7.71	7.55	7.69	4.98	77.0
PCB 118	1	7.30	7.24	7.38	1.68	C
	2	8.91	8.85	8.99	1.28	27.0
PCB 153	1	7.58	7.51	7.65	3.52	
	2	9.30	9.24	9.38	3.55	0.8
PCB 180	1	9.38	9.32	9.46	1.84	
	2	12.00	11.94	12.08	3.80	69.5

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

OU4-SD-M09-311B

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: PNS CTO WE29 O

Lab Code: KAS PO No.: SDG No.: WE29-1

Lab Sample ID: SE2074-12 Date(s) Analyzed: 05/11/11 05/11/11

Instrument ID (1): GC07 Instrument ID (2): GC07

GC Column(1): RTX-CLPESTICIDES ID: 0.53(mm) GC Column(2): RTX-CLPESTICIDES2 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
PCB 206	1	12.62	12.57	12.71	4.68	
	2	16.24	16.19	16.33	7.22	42.7
PCB 169	1	10.16	10.09	10.23	3.19	
	2	12.82	12.73	12.87	3.30	3.4
PCB 77	1	7.03	6.98	7.12	3.54	
	2	8.54	8.46	8.60	8.94	86.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

Case Narrative
SGS Project: **31100958**
Project Name/Site: **Portsmouth**
CTO: **PNS CTOWE29064**
Project Contact: **Kelly Perkins**

For Method: 1613

- The submitted samples were accepted into the lab on April 26th, 2011 in good condition at a temperature of 5.8 degrees Celcius. The sample extracts and associated QC extracts were processed as prescribed in the SGS standard operating procedures and analyzed by HRGC/HRMS for method 1613.

- Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition page is provided with this SDG.

- Sample 010 and 011 are MS/MSD samples, respectively.

- Sample **OU4-SD-M09-311B** contains a quantitative interference. This situation may result in an underestimation of the affected analyte(s)

Tamara Morgan 5-11-11
Tamara Morgan Date
Data Validation

SGS

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < LOD)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range
M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

SGS North America Inc. 5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com

Katahdin ANALYTICAL SERVICES

600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

Portsmouth

CHAIN of CUSTODY

No # 31100750

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client: Katahdin Analytical | Contact: Kelly Perkins | Phone #: ( ) | Fax #: ( )

Address | City | State | Zip Code

Purchase Order # | Proj. Name / No.: PNS CTO WE29 OU4 | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign) | Copies To:

LAB USE ONLY | WORK ORDER #: SE2074
KATAHDIN PROJECT NUMBER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Dioxin/Furans (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	OU4-SD-M09-211B	4/19/11/1057	SL	1	✓									
	OU4-SD-M09-311B	/1125		1	✓									
	OU4-SD-M08-211B	/1142		1	✓									
	OU4-SD-M07-211B	/1210		1	✓									
	OU4-SD-M07-311B	/1225		1	✓									
	OU4-SD-M07-111B	/1820		1	✓									
	OU4-SD-M08-311B	/1850		1	✓									
	OU4-SD-FD-041911-03	/00:00		1	✓									
	OU4-SD-M08-111B	/1900		3	✓ MS/MSD									
	OU4-SD-M09-111B	↓ /1910	↓	1	✓									
	OU4-RB-042011-01	4/20/11/1350	AQ	2	✓									
	OU4-SB-042011-01	↓ /1400	AQ	2	✓									
		/												
	M1613	/												
	TT XDAPT GD	/												
	GD 4/24/11	/												

COMMENTS
QC IV SDG = WE29-1 ~~Begin~~ End / DoD QSM Results due: 5/6/11

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	4/25/11 1545				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
	4/26/11 1155	[signature]	Custody Seal Intact 5.8°C		

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Katahdin** Work Order No.: **31100958**

1. x Shipped
   ___ Hand Delivered

2. x COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. x Custody Tape on Container
   ___ No Custody Tape

4. x Samples Intact
   ___ Samples Broken / Leaking

5. x Chilled on Receipt Actual Temp.(s) in °C: 5.8
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. x Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. x Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. x Received Within Holding Time
   ___ Not Received Within Holding Time

9. x No Discrepancies Noted
   ___ Discrepancies Noted

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments:

Inspected and Logged in by: TP

Date: Wed-4/27/11 00:00

SGS

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
OU4-SD-M09-211B	31100958001	04/19/2011 10:57	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M09-311B	31100958002	04/19/2011 11:25	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M08-211B	31100958003	04/19/2011 11:42	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M07-211B	31100958004	04/19/2011 12:10	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M07-311B	31100958005	04/19/2011 12:25	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M07-111B	31100958006	04/19/2011 18:20	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M08-311B	31100958007	04/19/2011 18:50	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-FD-041911-03	31100958008	04/19/2011 00:00	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M08-111B	31100958009	04/19/2011 19:00	04/26/2011 11:55	Soil-Solid as dr
OU4-SD-M09-111B	31100958012	04/19/2011 19:10	04/26/2011 11:55	Soil-Solid as dr
OU4-RB-042011-01	31100958013	04/20/2011 13:50	04/26/2011 11:55	Water
OU4-SB-042011-01	31100958014	04/20/2011 14:00	04/26/2011 11:55	Water

SGS North America Inc. 5500 Business Drive, Wilmington, NC 28405
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SGS North America, Inc.

Instrument: HRMS2

m1613- 010611b

Data File	Sample ID	An alyst	Acquisition Date/Time	Inj.Vol
b06jan11b-1	S37 -401G_CS0.5	KAS	2011-01-06 08:39:31	1 uL
b06jan11b-2	S37 -401H_CS1.0NA	KAS	2011-01-06 09:26:26	1 uL
b06jan11b-3	S36 -206H_CS2	KAS	2011-01-06 10:16:31	1 uL
b06jan11b-4	S36 -206J_CS3	KAS	2011-01-06 11:06:36	1 uL
b06jan11b-5	S37 -401L_CS4	KAS	2011-01-06 11:56:41	1 uL
b06jan11b-6	S37 -401M_CS5	KAS	2011-01-06 12:46:45	1 uL

CAL. all Dwx

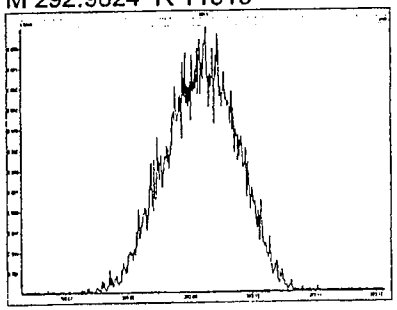
TM 1-13-11

Experiment Calibration Report **MassLynx 4.1 SCN640**

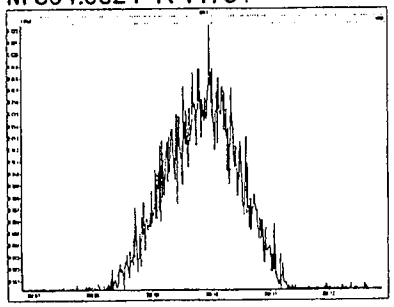
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:27:59 Eastern Standard Time

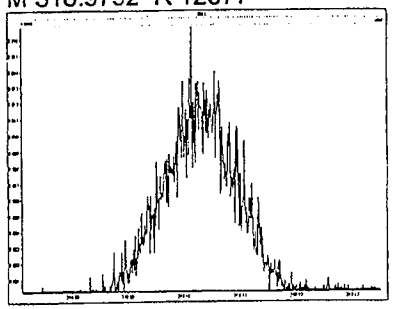
M 292.9824 R 11519



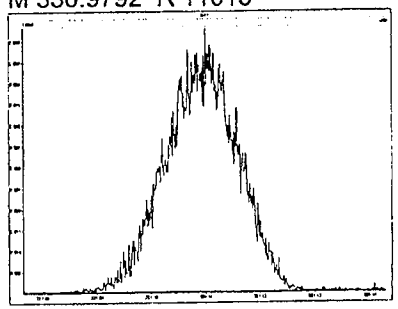
M 304.9824 R 11734



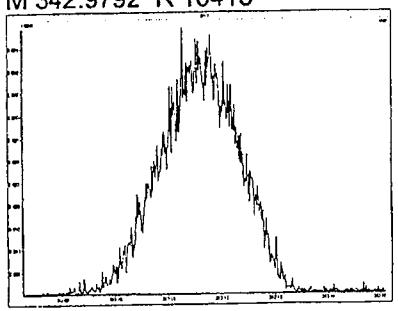
M 318.9792 R 12377



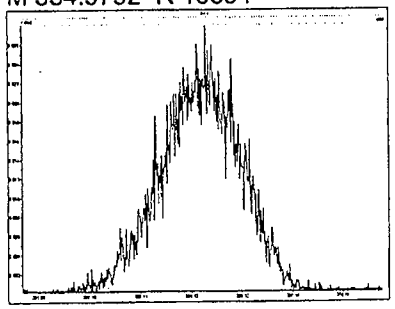
M 330.9792 R 11013



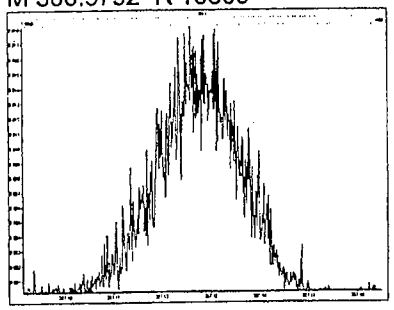
M 342.9792 R 10415



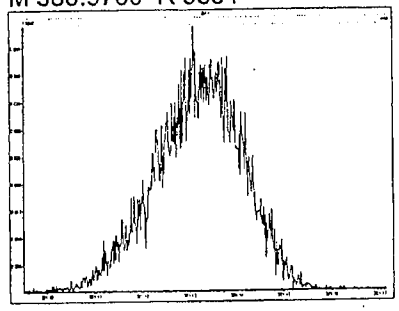
M 354.9792 R 10594



M 366.9792 R 10869



M 380.9760 R 9504

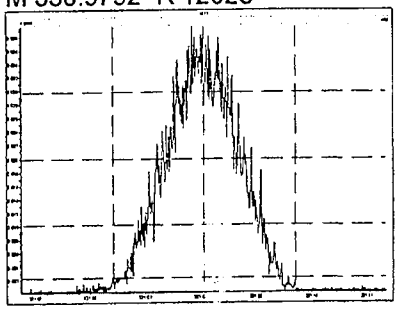


Experiment Calibration Report **MassLynx 4.1 SCN640**

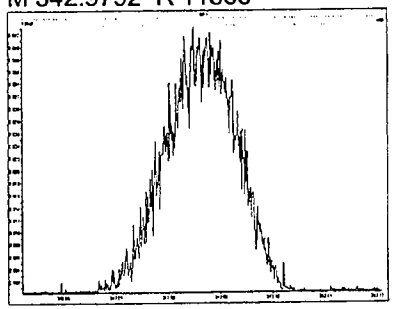
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:28:41 Eastern Standard Time

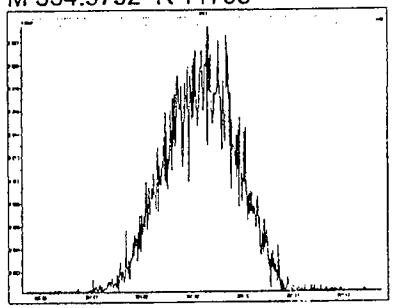
M 330.9792 R 12023



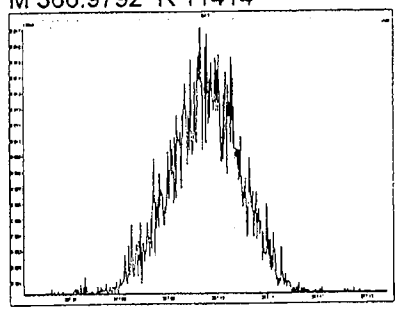
M 342.9792 R 11365



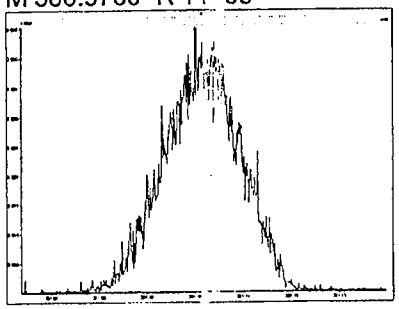
M 354.9792 R 11793



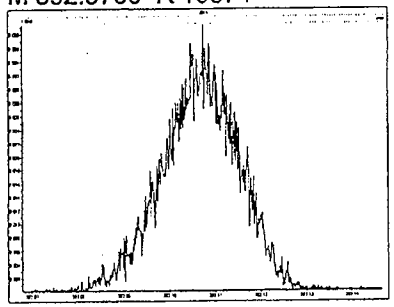
M 366.9792 R 11414



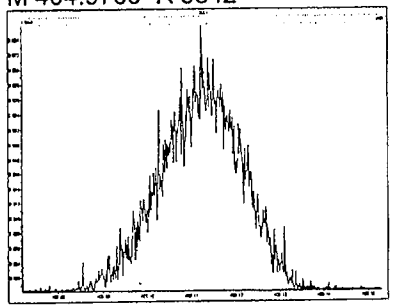
M 380.9760 R 11109



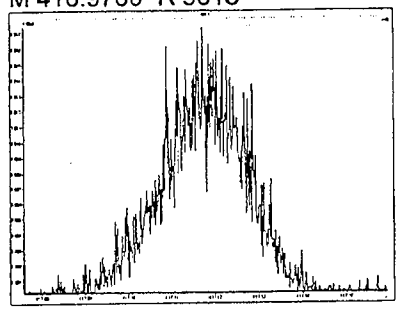
M 392.9760 R 10374



M 404.9760 R 9842



M 416.9760 R 9613

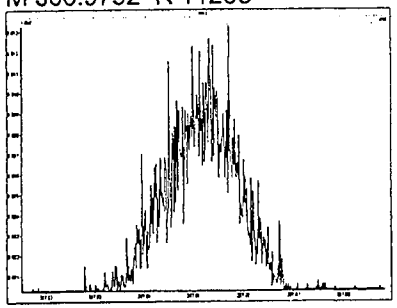


Experiment Calibration Report **MassLynx 4.1 SCN640**

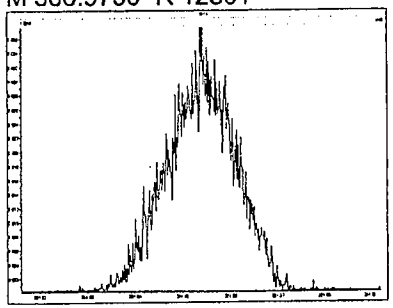
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:29:19 Eastern Standard Time

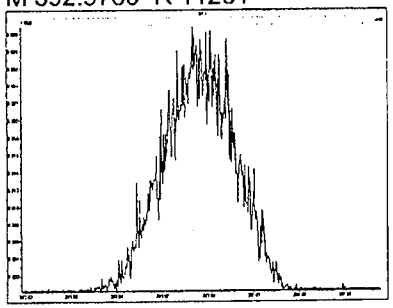
M 366.9792 R 11208



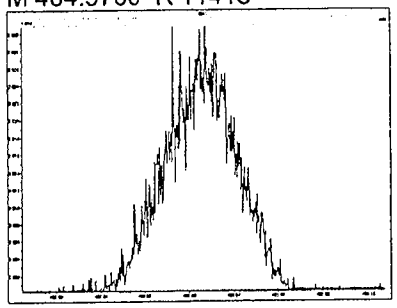
M 380.9760 R 12501



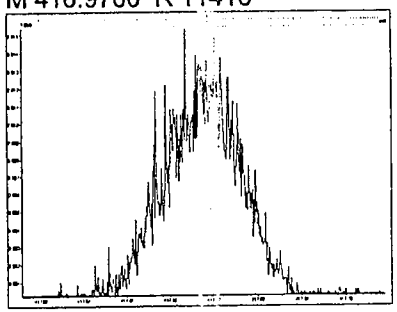
M 392.9760 R 11261



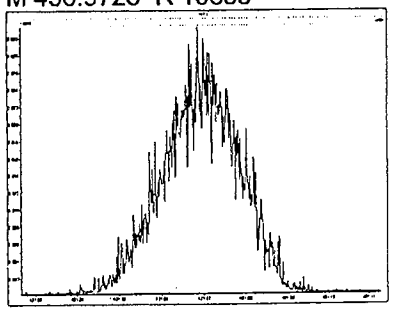
M 404.9760 R 11418



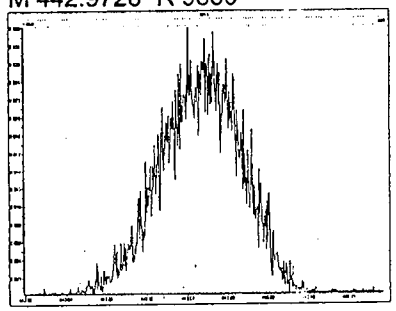
M 416.9760 R 11416



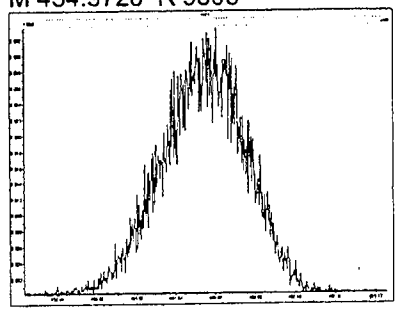
M 430.9728 R 10683



M 442.9728 R 9880



M 454.9728 R 9805

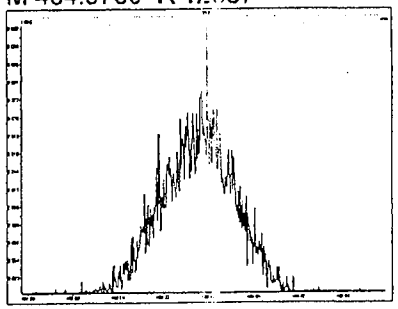


Experiment Calibration Report **MassLynx 4.1 SCN640**

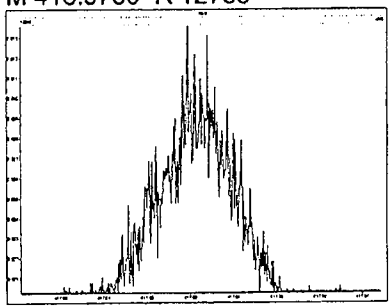
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:29:42 Eastern Standard Time

M 404.9760 R 12087



M 416.9760 R 12755



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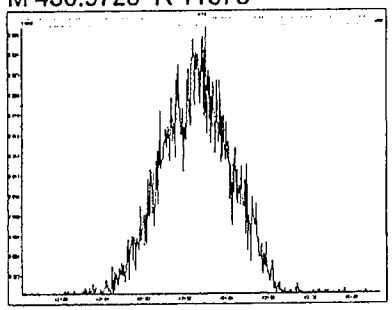
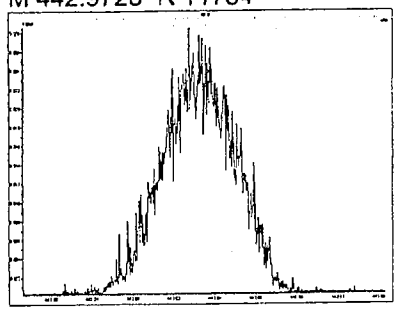
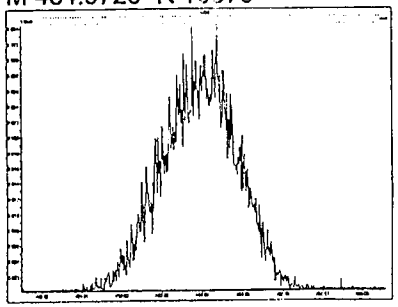


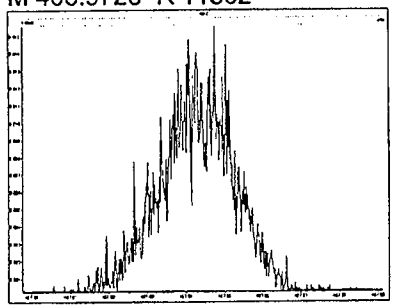
M 442.9728 R 11734



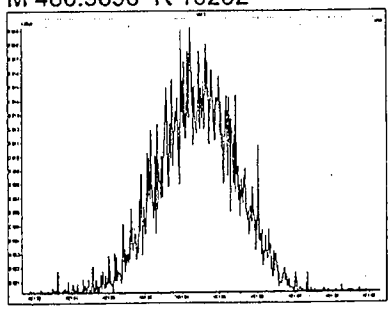
M 454.9728 R 10870



M 466.9728 R 11362



M 480.9696 R 10202

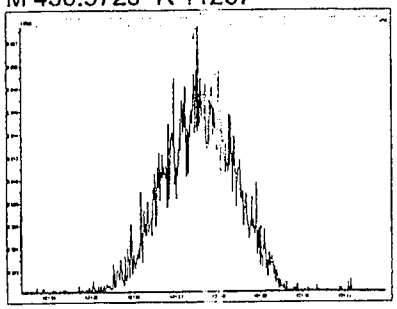


Experiment Calibration Report **MassLynx 4.1 SCN640**

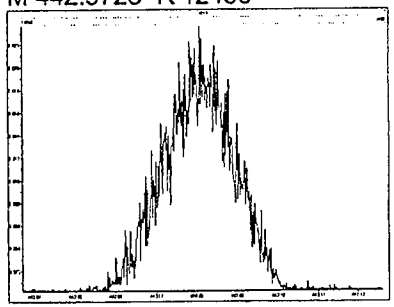
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:30:03 Eastern Standard Time

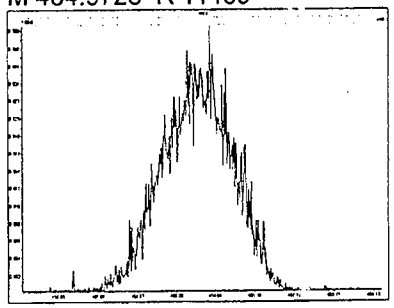
M 430.9728 R 11257



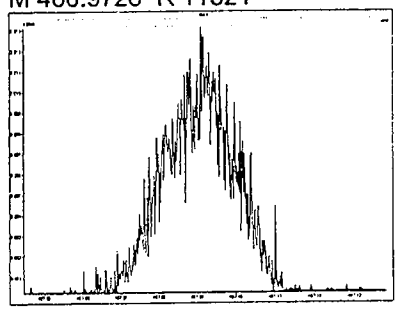
M 442.9728 R 12436



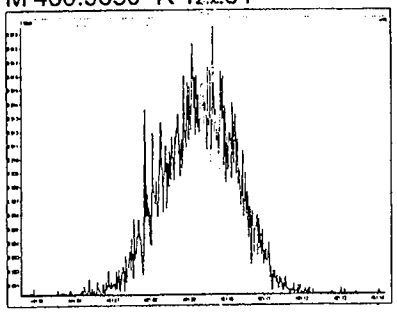
M 454.9728 R 11469



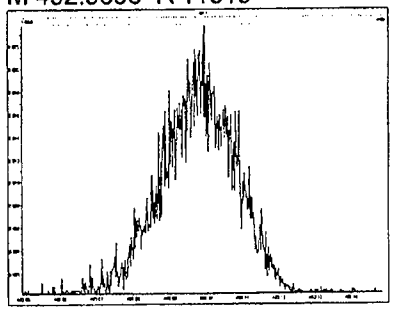
M 466.9728 R 11521



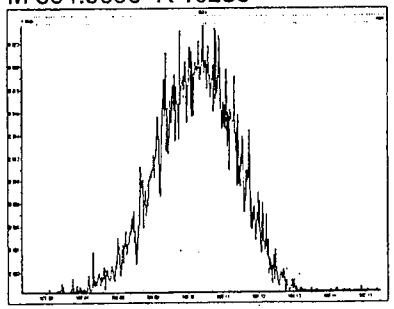
M 480.9696 R 12254



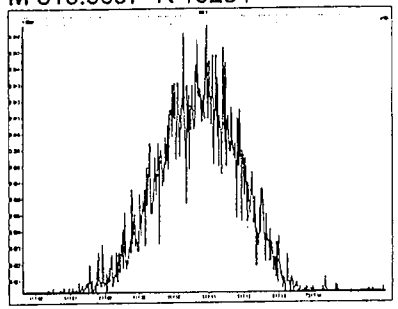
M 492.9696 R 11519



M 504.9696 R 10285



M 516.9697 R 10284

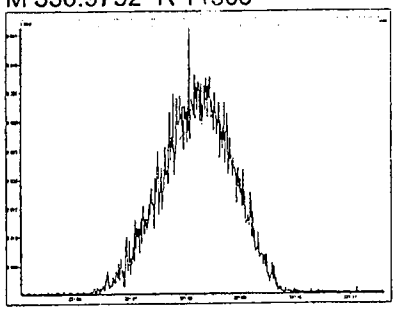


Experiment Calibration Report **MassLynx 4.1 SCN640**

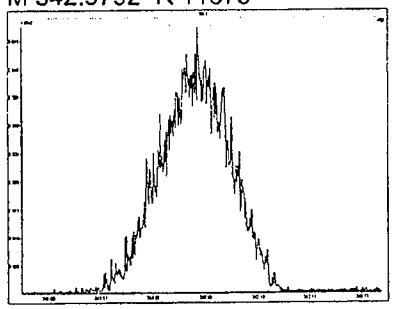
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:28:20 Eastern Standard Time

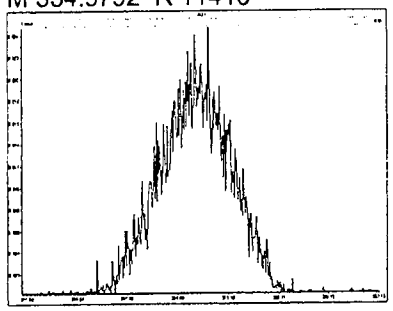
M 330.9792 R 11960



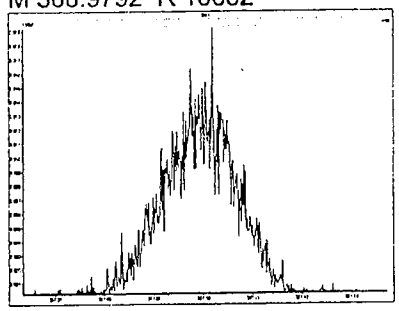
M 342.9792 R 11679



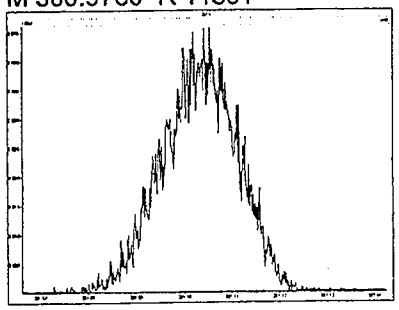
M 354.9792 R 11416



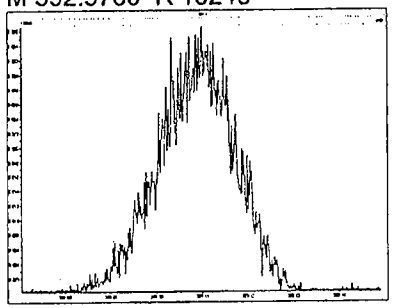
M 366.9792 R 10682



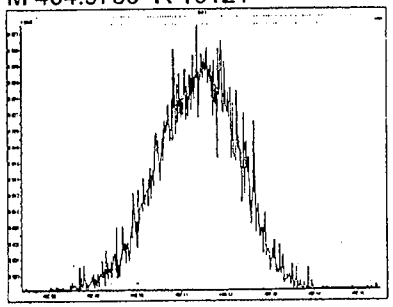
M 380.9760 R 11361



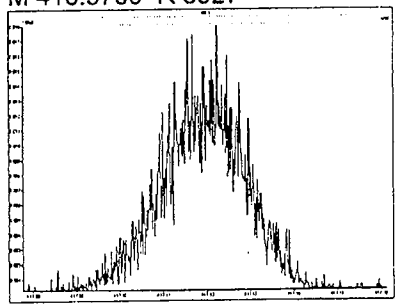
M 392.9760 R 10246



M 404.9760 R 10121



M 416.9760 R 8927

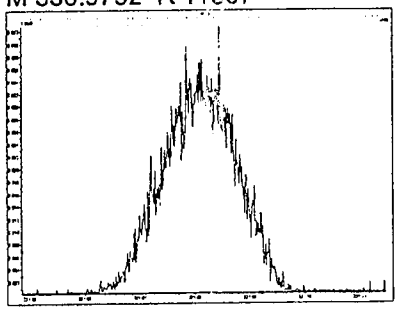


Experiment Calibration Report **MassLynx 4.1 SCN640**

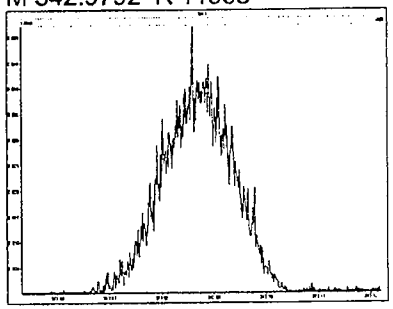
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, January 06, 2011 07:28:29 Eastern Standard Time

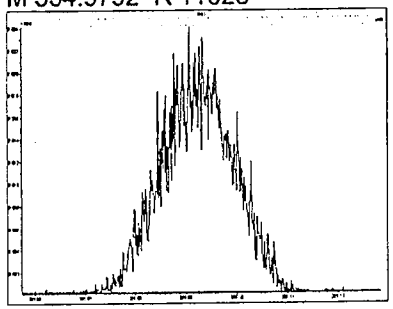
M 330.9792 R 11367



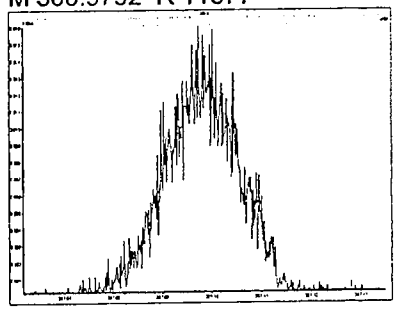
M 342.9792 R 11958



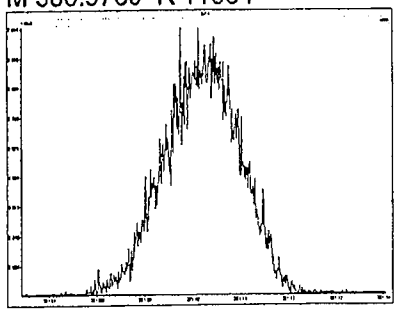
M 354.9792 R 11628



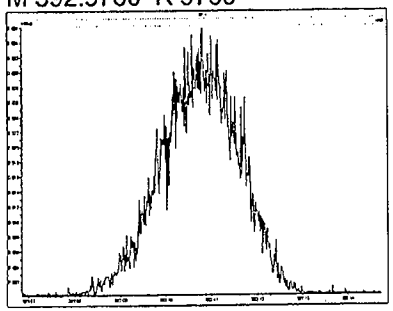
M 366.9792 R 11577



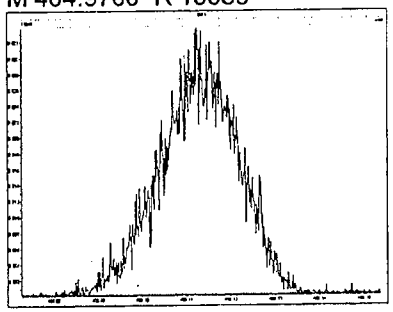
M 380.9760 R 11064



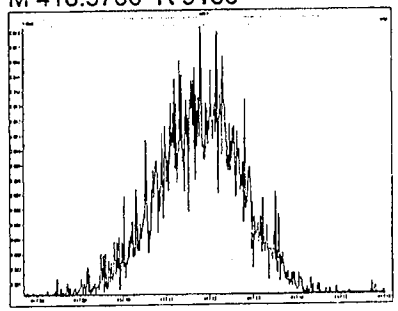
M 392.9760 R 9766



M 404.9760 R 10039



M 416.9760 R 9156

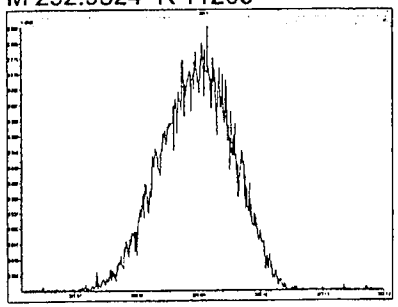


Experiment Calibration Report **MassLynx 4.1 SCN640**

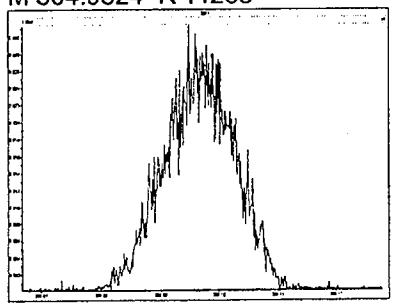
File: Experiment: dioxins_db5msmod.exp / Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, January 06, 2011 13:46:50 Eastern Standard Time

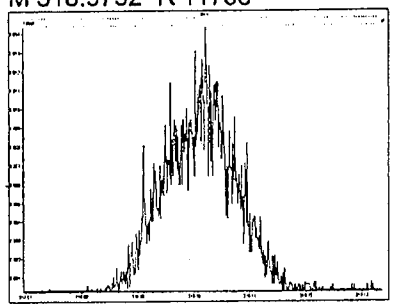
M 292.9824 R 11209



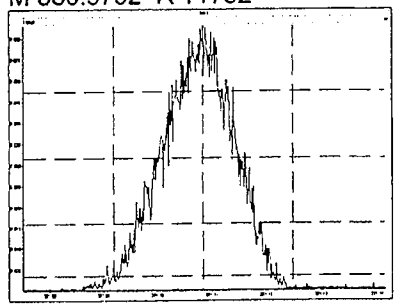
M 304.9824 R 11263



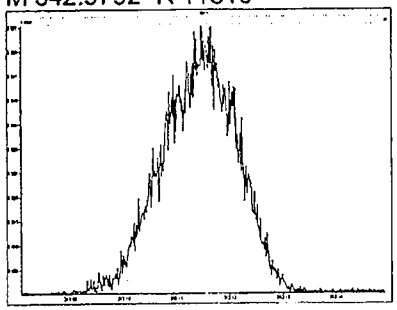
M 318.9792 R 11738



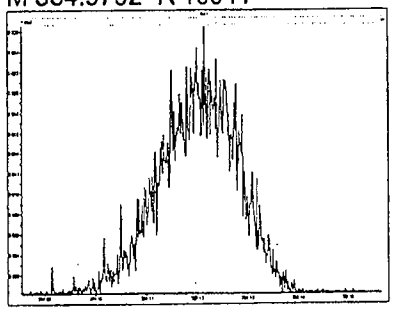
M 330.9792 R 11792



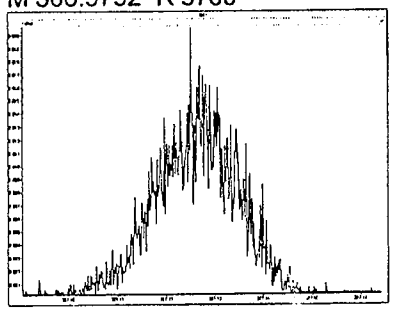
M 342.9792 R 11310



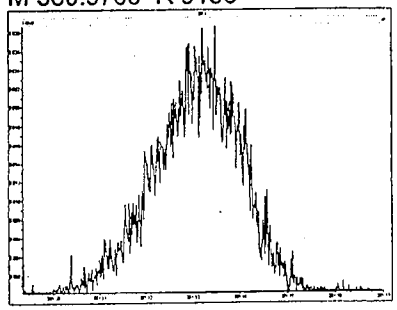
M 354.9792 R 10041



M 366.9792 R 9765



M 380.9760 R 9190

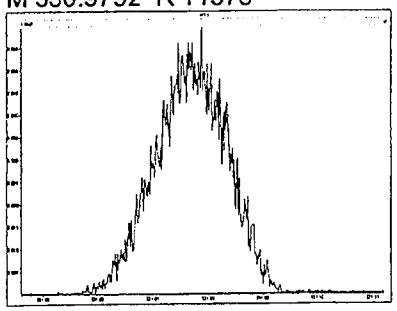


Experiment Calibration Report **MassLynx 4.1 SCN640**

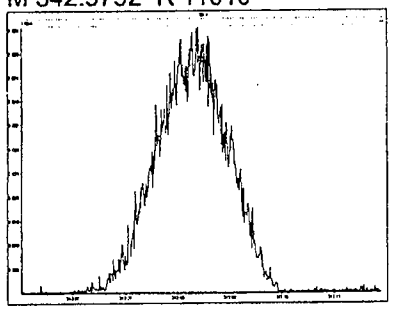
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, January 06, 2011 13:47:07 Eastern Standard Time

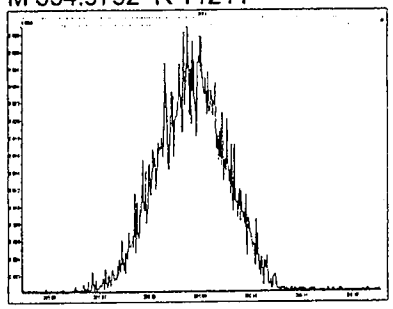
M 330.9792 R 11578



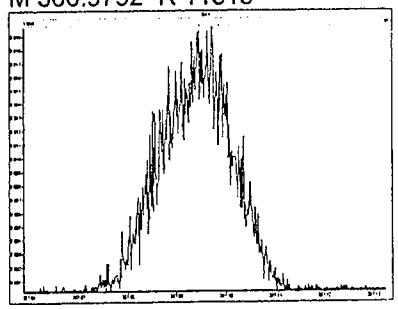
M 342.9792 R 11010



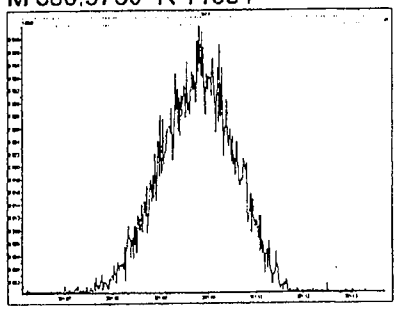
M 354.9792 R 11211



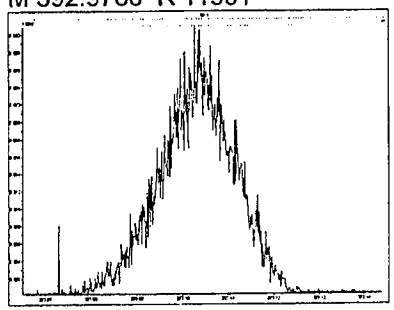
M 366.9792 R 11519



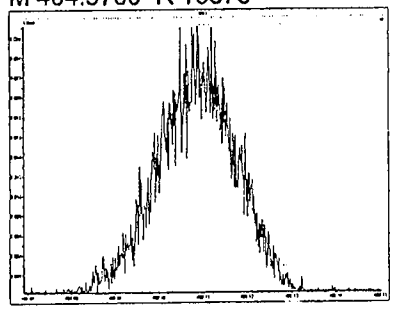
M 380.9760 R 11684



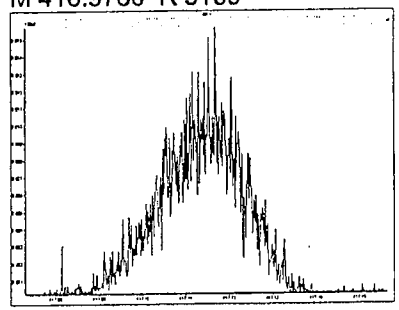
M 392.9760 R 11901



M 404.9760 R 10373



M 416.9760 R 9159

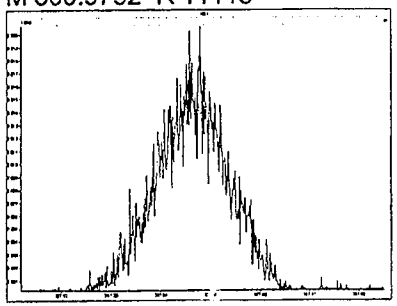


Experiment Calibration Report **MassLynx 4.1 SCN640**

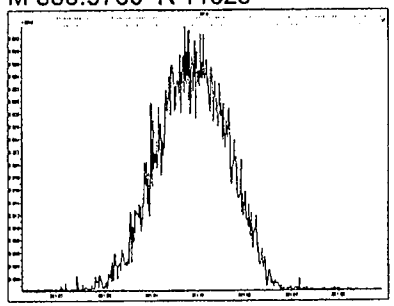
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, January 06, 2011 13:47:24 Eastern Standard Time

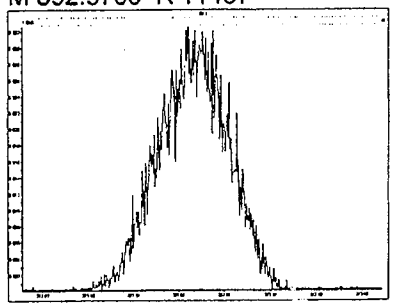
M 366.9792 R 11113



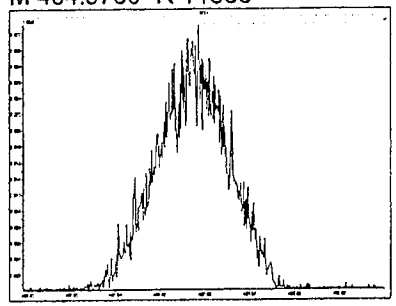
M 380.9760 R 11629



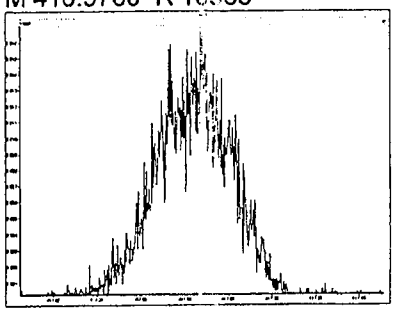
M 392.9760 R 11467



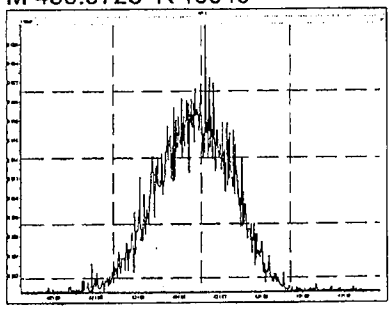
M 404.9760 R 11366



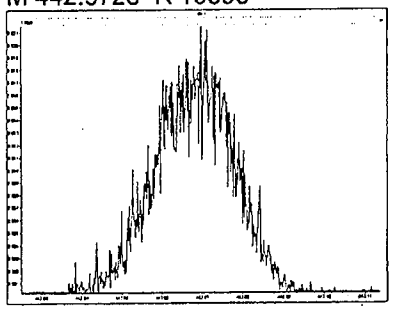
M 416.9760 R 10965



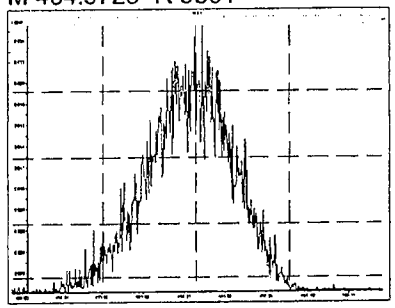
M 430.9728 R 10040



M 442.9728 R 10595



M 454.9728 R 9801

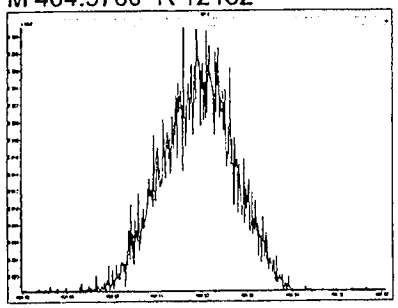


Experiment Calibration Report **MassLynx 4.1 SCN640**

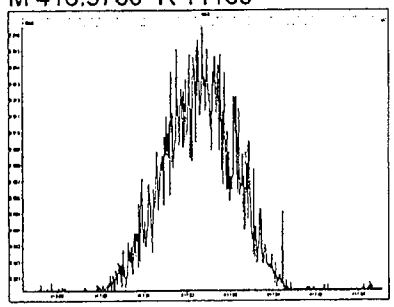
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, January 06, 2011 13:47:43 Eastern Standard Time

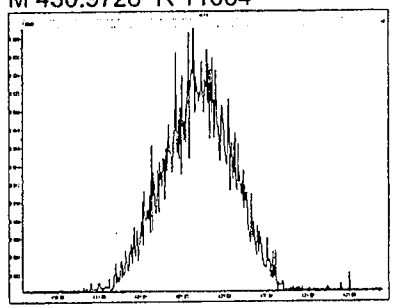
M 404.9760 R 12132



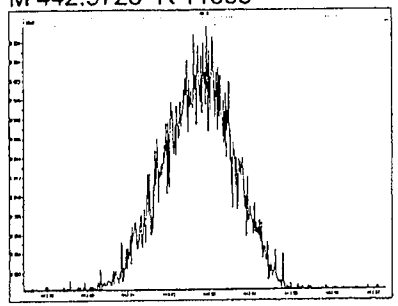
M 416.9760 R 11160



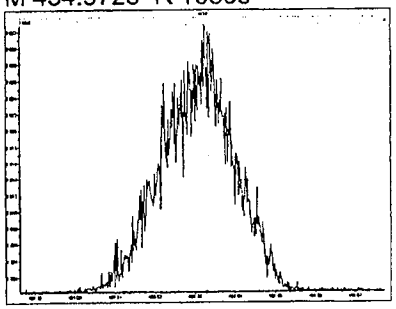
M 430.9728 R 11064



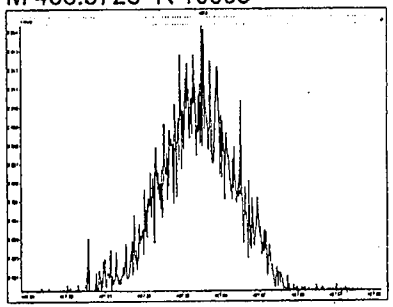
M 442.9728 R 11683



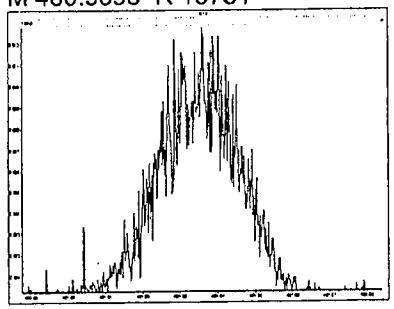
M 454.9728 R 10869



M 466.9728 R 10503



M 480.9696 R 10731

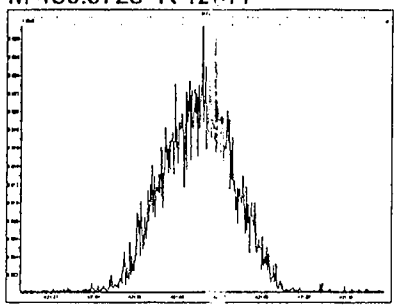


Experiment Calibration Report **MassLynx 4.1 SCN640**

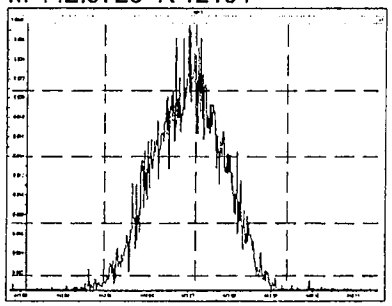
File: Experiment: dioxins_db5msmod.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, January 06, 2011 13:48:03 Eastern Standard Time

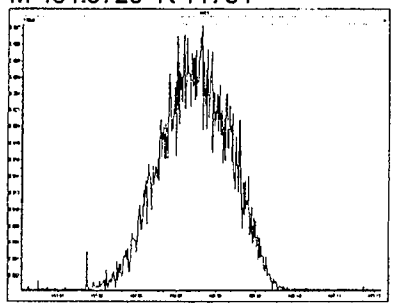
M 430.9728 R 12077



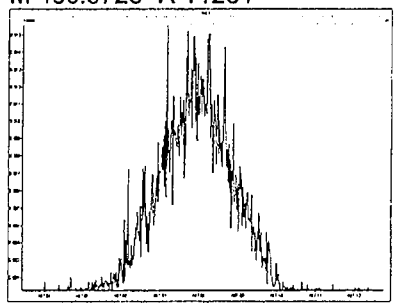
M 442.9728 R 12134



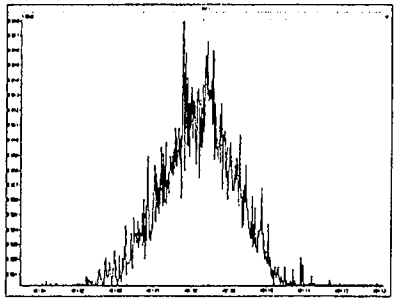
M 454.9728 R 11734



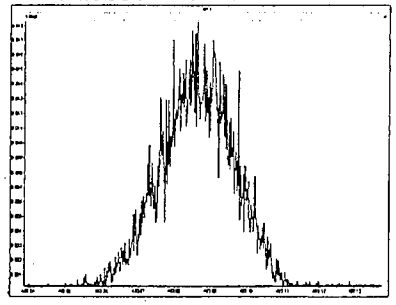
M 466.9728 R 11261



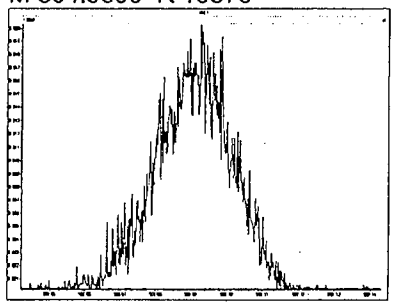
M 480.9696 R 11961



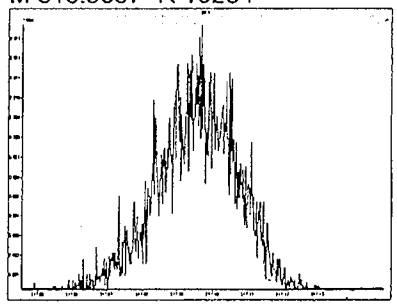
M 492.9696 R 11112



M 504.9696 R 10370



M 516.9697 R 10284



Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
Printed: 13-January-11 10:42:42 AM Eastern Standard Time

Cal.

Method: Untitled 28 Dec 2010 08:07:16
Calibration: 12 Jan 2011 13:21:51

Compound name: 2378-TCDD
Response Factor: 1.17157
RRF SD: 0.0968654, Relative SD: 8.268
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	0.25	1.343	18
2	b06jan11b-3	S36-206H_C...	2.00	1.137	18
3	b06jan11b-4	S36-206J_CS3	10.00	1.124	18
4	b06jan11b-5	S37-401L_CS4	40.00	1.107	18
5	b06jan11b-6	S37-401M_C...	200.00	1.146	18

Compound name: 12378-PeCDD
Response Factor: 1.03821
RRF SD: 0.0228151, Relative SD: 2.19754
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.038	19
2	b06jan11b-3	S36-206H_C...	10.00	1.048	19
3	b06jan11b-4	S36-206J_CS3	50.00	1.010	19
4	b06jan11b-5	S37-401L_CS4	200.00	1.024	19
5	b06jan11b-6	S37-401M_C...	1000.00	1.070	19

Compound name: 123478-HxCDD
Response Factor: 1.0188
RRF SD: 0.0317951, Relative SD: 3.12085
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.069	20

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: 123478-HxCDD

	Filename	Sample ID	Std. Conc.	RRF	IS#
2	b06jan11b-3	S36-206H_C...	10.00	1.007	20
3	b06jan11b-4	S36-206J_CS3	50.00	0.997	20
4	b06jan11b-5	S37-401L_CS4	200.00	0.991	20
5	b06jan11b-6	S37-401M_C...	1000.00	1.030	20

Compound name: 123678-HxCDD
Response Factor: 0.940801
RRF SD: 0.0221185, Relative SD: 2.35103
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	0.907	21
2	b06jan11b-3	S36-206H_C...	10.00	0.956	21
3	b06jan11b-4	S36-206J_CS3	50.00	0.930	21
4	b06jan11b-5	S37-401L_CS4	200.00	0.951	21
5	b06jan11b-6	S37-401M_C...	1000.00	0.960	21

Compound name: 123789-HxCDD
Response Factor: 0.936552
RRF SD: 0.0185604, Relative SD: 1.98178
Response type: Internal Std (Ref Multiple), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	0.963	Multi
2	b06jan11b-3	S36-206H_C...	10.00	0.947	Multi
3	b06jan11b-4	S36-206J_CS3	50.00	0.929	Multi
4	b06jan11b-5	S37-401L_CS4	200.00	0.927	Multi
5	b06jan11b-6	S37-401M_C...	1000.00	0.916	Multi

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
Printed: 13-January-11 10:42:42 AM Eastern Standard Time

Compound name: 1234678-HpCDD
Response Factor: 1.02385
RRF SD: 0.0256276, Relative SD: 2.50305
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.048	22
2	b06jan11b-3	S36-206H_C...	10.00	1.024	22
3	b06jan11b-4	S36-206J_CS3	50.00	1.003	22
4	b06jan11b-5	S37-401L_CS4	200.00	0.994	22
5	b06jan11b-6	S37-401M_C...	1000.00	1.050	22

Compound name: OCDD
Response Factor: 1.05083
RRF SD: 0.0294771, Relative SD: 2.80514
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	2.50	1.075	23
2	b06jan11b-3	S36-206H_C...	20.00	1.032	23
3	b06jan11b-4	S36-206J_CS3	100.00	1.015	23
4	b06jan11b-5	S37-401L_CS4	400.00	1.046	23
5	b06jan11b-6	S37-401M_C...	2000.00	1.086	23

Compound name: 2378-TCDF
Response Factor: 0.889024
RRF SD: 0.0158322, Relative SD: 1.78085
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	0.25	0.916	24
2	b06jan11b-3	S36-206H_C...	2.00	0.881	24
3	b06jan11b-4	S36-206J_CS3	10.00	0.878	24
4	b06jan11b-5	S37-401L_CS4	40.00	0.880	24

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-[illegible] 1:21:51 PM Eastern Standard Time
Printed: 13-January-[illegible] 10:42:42 AM Eastern Standard Time

Compound name: 2378-TCDF

	Filename	Sample ID	Std. Conc.	RRF	IS#
5	b06jan11b-6	S37-401M_C...	200.00	0.890	24

Compound name: 12378-PeCDF
Response Factor: 0.917849
RRF SD: 0.0245022, Relative SD: 2.66953
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	0.959	25
2	b06jan11b-3	S36-206H_C...	10.00	0.906	25
3	b06jan11b-4	S36-206J_CS3	50.00	0.896	25
4	b06jan11b-5	S37-401L_CS4	200.00	0.907	25
5	b06jan11b-6	S37-401M_C...	1000.00	0.921	25

Compound name: 23478-PeCDF
Response Factor: 0.931829
RRF SD: 0.024983, Relative SD: 2.68107
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	0.972	26
2	b06jan11b-3	S36-206H_C...	10.00	0.918	26
3	b06jan11b-4	S36-206J_CS3	50.00	0.911	26
4	b06jan11b-5	S37-401L_CS4	200.00	0.919	26
5	b06jan11b-6	S37-401M_C...	1000.00	0.939	26

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: 123478-HxCDF
Response Factor: 1.12565
RRF SD: 0.0424385, Relative SD: 3.77013
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.189	27
2	b06jan11b-3	S36-206H_C...	10.00	1.108	27
3	b06jan11b-4	S36-206J_CS3	50.00	1.080	27
4	b06jan11b-5	S37-401L_CS4	200.00	1.104	27
5	b06jan11b-6	S37-401M_C...	1000.00	1.146	27

Compound name: 123678-HxCDF
Response Factor: 1.07947
RRF SD: 0.0254458, Relative SD: 2.35725
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.118	28
2	b06jan11b-3	S36-206H_C...	10.00	1.085	28
3	b06jan11b-4	S36-206J_CS3	50.00	1.075	28
4	b06jan11b-5	S37-401L_CS4	200.00	1.049	28
5	b06jan11b-6	S37-401M_C...	1000.00	1.070	28

Compound name: 234678-HxCDF
Response Factor: 1.07995
RRF SD: 0.0242585, Relative SD: 2.24626
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.105	29
2	b06jan11b-3	S36-206H_C...	10.00	1.072	29
3	b06jan11b-4	S36-206J_CS3	50.00	1.053	29
4	b06jan11b-5	S37-401L_CS4	200.00	1.063	29

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: 234678-HxCDF

	Filename	Sample ID	Std. Conc.	RRF	IS#
5	b06jan11b-6	S37-401M_C...	1000.00	1.106	29

Compound name: 123789-HxCDF
Response Factor: 1.02387
RRF SD: 0.0104822, Relative SD: 1.02378
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.035	30
2	b06jan11b-3	S36-206H_C...	10.00	1.012	30
3	b06jan11b-4	S36-206J_CS3	50.00	1.013	30
4	b06jan11b-5	S37-401L_CS4	200.00	1.027	30
5	b06jan11b-6	S37-401M_C...	1000.00	1.031	30

Compound name: 1234678-HpCDF
Response Factor: 1.26906
RRF SD: 0.0197503, Relative SD: 1.55629
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.293	31
2	b06jan11b-3	S36-206H_C...	10.00	1.258	31
3	b06jan11b-4	S36-206J_CS3	50.00	1.249	31
4	b06jan11b-5	S37-401L_CS4	200.00	1.257	31
5	b06jan11b-6	S37-401M_C...	1000.00	1.287	31

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: 1234789-HpCDF
Response Factor: 1.30101
RRF SD: 0.0604458, Relative SD: 4.64608
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	1.25	1.407	32
2	b06jan11b-3	S36-206H_C...	10.00	1.281	32
3	b06jan11b-4	S36-206J_CS3	50.00	1.269	32
4	b06jan11b-5	S37-401L_CS4	200.00	1.257	32
5	b06jan11b-6	S37-401M_C...	1000.00	1.291	32

Compound name: OCDF
Response Factor: 1.19539
RRF SD: 0.141764, Relative SD: 11.8592
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	2.50	1.125	23
2	b06jan11b-3	S36-206H_C...	20.00	1.080	23
3	b06jan11b-4	S36-206J_CS3	100.00	1.132	23
4	b06jan11b-5	S37-401L_CS4	400.00	1.204	23
5	b06jan11b-6	S37-401M_C...	2000.00	1.436	23

Compound name: ES:13C-2378-TCDD
Response Factor: 1.00535
RRF SD: 0.0359098, Relative SD: 3.57188
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	0.981	33
2	b06jan11b-3	S36-206H_C...	100.00	0.973	33
3	b06jan11b-4	S36-206J_CS3	100.00	0.997	33
4	b06jan11b-5	S37-401L_CS4	100.00	1.013	33

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

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Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: ES:13C-2378-TCDD

	Filename	Sample ID	Std. Conc.	RRF	IS#
5	b06jan11b-6	S37-401M_C...	100.00	1.063	33

Compound name: ES:13C-12378-PeCDD
Response Factor: 0.844063
RRF SD: 0.0736217, Relative SD: 8.7223
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	0.799	33
2	b06jan11b-3	S36-206H_C...	100.00	0.793	33
3	b06jan11b-4	S36-206J_CS3	100.00	0.802	33
4	b06jan11b-5	S37-401L_CS4	100.00	0.860	33
5	b06jan11b-6	S37-401M_C...	100.00	0.967	33

Compound name: ES:13C-123478-HxCDD
Response Factor: 0.951858
RRF SD: 0.0317896, Relative SD: 3.33974
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	0.937	34
2	b06jan11b-3	S36-206H_C...	100.00	0.928	34
3	b06jan11b-4	S36-206J_CS3	100.00	0.930	34
4	b06jan11b-5	S37-401L_CS4	100.00	0.962	34
5	b06jan11b-6	S37-401M_C...	100.00	1.003	34

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

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Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: ES:13C-123678-HxCDD
Response Factor: 1.1184
RRF SD: 0.02987, Relative SD: 2.67079
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.098	34
2	b06jan11b-3	S36-206H_C...	100.00	1.094	34
3	b06jan11b-4	S36-206J_CS3	100.00	1.121	34
4	b06jan11b-5	S37-401L_CS4	100.00	1.110	34
5	b06jan11b-6	S37-401M_C...	100.00	1.169	34

Compound name: ES:13C-1234678-HpCDD
Response Factor: 0.765514
RRF SD: 0.0245388, Relative SD: 3.20553
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	0.777	34
2	b06jan11b-3	S36-206H_C...	100.00	0.767	34
3	b06jan11b-4	S36-206J_CS3	100.00	0.791	34
4	b06jan11b-5	S37-401L_CS4	100.00	0.766	34
5	b06jan11b-6	S37-401M_C...	100.00	0.726	34

Compound name: ES:13C-OCDD
Response Factor: 0.675921
RRF SD: 0.0129367, Relative SD: 1.91393
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	200.00	0.679	34
2	b06jan11b-3	S36-206H_C...	200.00	0.674	34
3	b06jan11b-4	S36-206J_CS3	200.00	0.694	34
4	b06jan11b-5	S37-401L_CS4	200.00	0.674	34

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

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Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
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Compound name: ES:13C-OCDD

	Filename	Sample ID	Std. Conc.	RRF	IS#
5	b06jan11b-6	S37-401M_C...	200.00	0.658	34

Compound name: ES:13C-2378-TCDF
Response Factor: 1.5278
RRF SD: 0.0701543, Relative SD: 4.59184
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.444	33
2	b06jan11b-3	S36-206H_C...	100.00	1.496	33
3	b06jan11b-4	S36-206J_CS3	100.00	1.512	33
4	b06jan11b-5	S37-401L_CS4	100.00	1.556	33
5	b06jan11b-6	S37-401M_C...	100.00	1.631	33

Compound name: ES:13C-12378-PeCDF
Response Factor: 1.26772
RRF SD: 0.150445, Relative SD: 11.8674
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.159	33
2	b06jan11b-3	S36-206H_C...	100.00	1.167	33
3	b06jan11b-4	S36-206J_CS3	100.00	1.203	33
4	b06jan11b-5	S37-401L_CS4	100.00	1.289	33
5	b06jan11b-6	S37-401M_C...	100.00	1.521	33

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
Printed: 13-January-11 10:42:42 AM Eastern Standard Time

Compound name: ES:13C-23478-PeCDF
Response Factor: 1.25802
RRF SD: 0.154009, Relative SD: 12.2421
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.137	33
2	b06jan11b-3	S36-206H_C...	100.00	1.163	33
3	b06jan11b-4	S36-206J_CS3	100.00	1.190	33
4	b06jan11b-5	S37-401L_CS4	100.00	1.286	33
5	b06jan11b-6	S37-401M_C...	100.00	1.514	33

Compound name: ES:13C-23478-HxCDF
Response Factor: 1.09382
RRF SD: 0.0329026, Relative SD: 3.00803
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.070	34
2	b06jan11b-3	S36-206H_C...	100.00	1.071	34
3	b06jan11b-4	S36-206J_CS3	100.00	1.090	34
4	b06jan11b-5	S37-401L_CS4	100.00	1.088	34
5	b06jan11b-6	S37-401M_C...	100.00	1.150	34

Compound name: ES:13C-123678-HxCDF
Response Factor: 1.25658
RRF SD: 0.0905498, Relative SD: 7.20605
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.185	34
2	b06jan11b-3	S36-206H_C...	100.00	1.178	34
3	b06jan11b-4	S36-206J_CS3	100.00	1.233	34
4	b06jan11b-5	S37-401L_CS4	100.00	1.289	34

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
Printed: 13-January-11 10:42:42 AM Eastern Standard Time

Compound name: ES:13C-123678-HxCDF

	Filename	Sample ID	Std. Conc.	RRF	IS#
5	b06jan11b-6	S37-401M_C...	100.00	1.397	34

Compound name: ES:13C-234678-HxCDF
Response Factor: 1.16381
RRF SD: 0.0282566, Relative SD: 2.42794
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.140	34
2	b06jan11b-3	S36-206H_C...	100.00	1.138	34
3	b06jan11b-4	S36-206J_CS3	100.00	1.166	34
4	b06jan11b-5	S37-401L_CS4	100.00	1.168	34
5	b06jan11b-6	S37-401M_C...	100.00	1.207	34

Compound name: ES:13C-123789-HxCDF
Response Factor: 1.0743
RRF SD: 0.0473762, Relative SD: 4.40996
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	1.040	34
2	b06jan11b-3	S36-206H_C...	100.00	1.038	34
3	b06jan11b-4	S36-206J_CS3	100.00	1.065	34
4	b06jan11b-5	S37-401L_CS4	100.00	1.075	34
5	b06jan11b-6	S37-401M_C...	100.00	1.154	34

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
Printed: 13-January-11 10:42:42 AM Eastern Standard Time

Compound name: ES:13C-1234678-HpCDF
Response Factor: 0.880622
RRF SD: 0.0319989, Relative SD: 3.63367
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	0.856	34
2	b06jan11b-3	S36-206H_C...	100.00	0.846	34
3	b06jan11b-4	S36-206J_CS3	100.00	0.889	34
4	b06jan11b-5	S37-401L_CS4	100.00	0.883	34
5	b06jan11b-6	S37-401M_C...	100.00	0.928	34

Compound name: ES:13C-1234789-HpCDF
Response Factor: 0.696551
RRF SD: 0.0188252, Relative SD: 2.70263
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	0.680	34
2	b06jan11b-3	S36-206H_C...	100.00	0.677	34
3	b06jan11b-4	S36-206J_CS3	100.00	0.703	34
4	b06jan11b-5	S37-401L_CS4	100.00	0.699	34
5	b06jan11b-6	S37-401M_C...	100.00	0.724	34

Compound name: JS:13C-1234-TCDD
Response Factor: 13727.2
RRF SD: 3965.99, Relative SD: 28.8914
Response type: External Std, Area
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	15893....	
2	b06jan11b-3	S36-206H_C...	100.00	19032....	
3	b06jan11b-4	S36-206J_CS3	100.00	13967....	
4	b06jan11b-5	S37-401L_CS4	100.00	10243....	

Quantify Compound Summary Report **MassLynx 4.1 SCN640**
ICAL Summary

Dataset: C:\MassLynx\Default.pro\Results\b06jan10b_1613ical.qld

Last Altered: 12-January-11 1:21:51 PM Eastern Standard Time
Printed: 13-January-11 10:42:42 AM Eastern Standard Time

Compound name: JS:13C-1234-TCDD

	Filename	Sample ID	Std. Conc.	RRF	IS#
5	b06jan11b-6	S37-401M_C...	100.00	9498.2...	

Compound name: JS:13C-123789-HxCDD
Response Factor: 10932.6
RRF SD: 2593.3, Relative SD: 23.7209
Response type: External Std, Area
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	100.00	12066....	
2	b06jan11b-3	S36-206H_C...	100.00	14724....	
3	b06jan11b-4	S36-206J_CS3	100.00	10736....	
4	b06jan11b-5	S37-401L_CS4	100.00	8486.4...	
5	b06jan11b-6	S37-401M_C...	100.00	8649.2...	

Compound name: CS:37Cl-2378-TCDD
Response Factor: 1.19056
RRF SD: 0.0237643, Relative SD: 1.99607
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc.	RRF	IS#
1	b06jan11b-1	S37-401G_C...	0.25	1.208	33
2	b06jan11b-3	S36-206H_C...	2.00	1.176	33
3	b06jan11b-4	S36-206J_CS3	10.00	1.169	33
4	b06jan11b-5	S37-401L_CS4	40.00	1.176	33
5	b06jan11b-6	S37-401M_C...	200.00	1.223	33

SGS North America, Inc.

Dioxin Analysis Run

Instrument: HRMS2

Data File	Sample ID	Analyst	Acquisition Date/Time	Inj.Vol
	PREV. RETCON PASS 1613			
b03may11c_4-1	9549 ✓ LCS	JLJ	2011 -05-04 14:03:41	1 uL
b03may11c_4-2	9550 ✓ LCSD?	JLJ	2011 -05-04 14:54:12	1 uL
b03may11c_4-3	9548 ✓ MB	JLJ	2011 -05-04 16:08:48	1 uL
b03may11c_4-4	1100734001 ✓	JLJ	2011 -05-04 16:58:15	1 uL
b03may11c_4-5	31100958001 ✗ C:TCDF	JLJ	2011 -05-04 17:48:16	1 uL
b03may11c_4-6	31100958002 ✗	JLJ	2011 -05-04 18:38:17	1 uL
b03may11c_4-7	31100958003 ✗	JLJ	2011 -05-04 19:28:17	1 uL
b03may11c_4-8	31100958004 ✗	JLJ	2011 -05-04 20:18:19	1 uL
b03may11c_4-9	31100958005 ✗	JLJ	2011 -05-04 21:08:20	1 uL
b03may11c_4-10	31100958006 ✗	JLJ	2011 -05-04 21:58:21	1 uL
b03may11c_4-11	31100958007 ✗	JLJ	2011 -05-04 22:48:22	1 uL
b03may11c_4-12	31100958008 ✓	JLJ	2011 -05-04 23:38:23	1 uL

TM 5-5-11

Quantify Sample Summary Report **MassLynx 4.1 SCN640**
1613 CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\1613\b03may11c_3-6.qld

Last Altered: 05-May-11 8:10:24 AM Eastern Daylight Time
Printed: 05-May-11 8:14:12 AM Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\m1613-050511a.mdb 27 Apr 2011 16:45:31
Calibration: C:\MassLynx\Default.pro\Curvedb\m1613-010611b.cdb 06 Jan 2011 17:35:11

Name: b03may11c_3-6
Date: 04-May-2011
Time: 12:37:15
ID: RETCON_S38-57M
Instrument:
User: JLJ

CCV

	Name	Response	Ion1Ar...	Ion2Area	RT	RA	RAFail?	RRF	IcalRRF	Height1	Noise1	SN1	Height2	Noise2	SN2	M	pg/µL	Low	High	Fail?
1	2378-TCDD	2.561e5	1.104e5	1.457e5	30.68	0.76	NO	1.175	1.172	1.177e6	4666	252.1	1.465e6	4569	320.7	db	10.029	7.8	12.9	NO
2	12378-PeCDD	8.908e5	5.412e5	3.497e5	33.79	1.55	NO	1.104	1.038	9.900e6	16053	616.7	6.570e6	8573	766.4	bd	53.177	39	65.0	NO
3	123478-HxCDD	9.146e5	5.062e5	4.084e5	36.34	1.24	NO	1.066	1.019	8.653e6	12639	684.7	6.951e6	14566	477.2	bd	52.311	39	64.0	NO
4	123678-HxCDD	9.886e5	5.469e5	4.416e5	36.42	1.24	NO	1.010	0.941	8.428e6	12639	666.9	6.739e6	14566	462.6	dd	53.671	39	64.0	NO
5	123789-HxCDD	9.716e5	5.378e5	4.337e5	36.65	1.24	NO	1.058	0.937	7.810e6	12639	618.0	6.099e6	14566	418.7	dd	56.472	41	61.0	NO
6	1234678-HpCDD	6.970e5	3.591e5	3.379e5	39.59	1.06	NO	1.061	1.024	4.390e6	9293	472.4	4.304e6	14286	301.3	bs	51.802	43	58.0	NO
7	OCDD	1.151e6	5.424e5	6.085e5	43.63	0.89	NO	1.090	1.051	5.371e6	7968	674.1	5.795e6	5808	997.7	bd	103.745	79	126	NO
8	2378-TCDF	3.513e5	1.525e5	1.988e5	29.75	0.77	NO	1.010	0.889	1.341e6	3839	349.3	1.779e6	5761	308.9	bd	11.361	8.4	12.0	NO
9	12378-PeCDF	1.435e6	8.544e5	5.808e5	32.99	1.47	NO	1.006	0.918	1.741e7	16807	1036.0	1.109e7	14200	780.9	dd	54.812	41	60.0	NO
10	23478-PeCDF	1.434e6	8.487e5	5.854e5	33.59	1.45	NO	1.022	0.932	1.514e7	16807	900.9	1.089e7	14200	767.2	bb	54.829	41	61.0	NO
11	123478-HxCDF	1.303e6	7.168e5	5.865e5	35.64	1.22	NO	1.227	1.125	1.298e7	23757	546.4	1.012e7	20224	500.2	bd	54.564	45	56.0	NO
12	123678-HxCDF	1.478e6	8.081e5	6.698e5	35.74	1.21	NO	1.132	1.079	1.337e7	23757	562.7	1.091e7	20224	539.5	db	52.429	44	57.0	NO
13	234678-HxCDF	1.351e6	7.436e5	6.078e5	36.21	1.22	NO	1.172	1.080	1.275e7	23757	536.7	1.002e7	20224	495.5	bb	54.279	45	56.0	NO
14	123789-HxCDF	1.105e6	6.134e5	4.919e5	36.95	1.25	NO	1.120	1.024	9.006e6	23757	379.1	7.169e6	20224	354.5	bb	54.717	44	57.0	NO
15	1234678-HpCDF	1.238e6	6.381e5	6.002e5	38.39	1.06	NO	1.376	1.269	8.828e6	12187	724.4	8.236e6	11735	701.9	bd	54.233	45	55.0	NO
16	1234789-HpCDF	9.031e5	4.622e5	4.409e5	40.22	1.05	NO	1.409	1.298	5.450e6	12187	447.2	5.207e6	11735	443.7	bs	54.281	43	58.0	NO
17	OCDF	1.363e6	6.529e5	7.104e5	43.91	0.92	NO	1.291	1.195	6.266e6	6943	902.5	7.085e6	5936	1193.6	bd	108.025	63	159	NO
18	ES:13C-2378-TCDD	2.180e6	9.573e5	1.222e6	30.66	0.78	NO	1.003	1.005	9.371e6	3937	2379.9	1.220e7	5719	2132.9	bb	99.779	82	121	NO
19	ES:13C-12378-PeCDD	1.614e6	1.007e6	6.066e5	33.78	1.66	NO	0.743	0.844	1.830e7	9316	1964.0	1.116e7	9484	1177.2	bb	87.976	62	160	NO
20	ES:13C-123478-HxCDD	1.716e6	9.529e5	7.633e5	36.33	1.25	NO	0.984	0.952	1.582e7	9219	1716.5	1.262e7	17817	708.2	bd	103.355	85	117	NO
21	ES:13C-123678-HxCDD	1.958e6	1.090e6	8.682e5	36.41	1.26	NO	1.122	1.118	1.733e7	9219	1879.3	1.380e7	17817	774.8	dd	100.348	85	118	NO
22	ES:13C-1234678-HpCDD	1.314e6	6.572e5	6.570e5	39.58	1.00	NO	0.753	0.766	8.595e6	12456	630.0	8.328e6	9294	896.1	bb	98.410	72	138	NO
23	ES:13C-OCDD	2.112e6	1.002e6	1.110e6	43.60	0.90	NO	0.605	0.676	9.706e6	7366	1317.7	1.077e7	8019	1343.2	bb	179.076	96	415	NO
24	ES:13C-2378-TCDF	3.478e6	1.527e6	1.951e6	29.72	0.78	NO	1.601	1.528	1.390e7	7188	1933.9	1.795e7	7941	2260.4	bb	104.770	71	140	NO
25	ES:13C-12378-PeCDF	2.853e6	1.752e6	1.100e6	32.98	1.59	NO	1.313	1.268	3.561e7	18445	1930.4	2.164e7	19593	1104.6	bb	103.559	76	130	NO
26	ES:13C-23478-PeCDF	2.807e6	1.746e6	1.060e6	33.58	1.65	NO	1.292	1.258	3.313e7	18445	1796.0	2.043e7	19593	1042.5	bb	102.682	77	130	NO

Quantify Sample Summary Report **MassLynx 4.1 SCN640**
1613 CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\1613\b03may11c_3-6.qld

Last Altered: 05-May-11 8:10:24 AM Eastern Daylight Time
Printed: 05-May-11 8:14:12 AM Eastern Daylight Time

Name: b03may11c_3-6
Date: 04-May-2011
Time: 12:37:15
ID: RETCON_S38-57M
Instrument:
User: JLJ

	Name	Response	Ion1Ar...	Ion2Area	RT	RA	RAFail?	RRF	IcalRRF	Height1	Noise1	SN1	Height2	Noise2	SN2	M	pg/µL	Low	High	Fail?
27	ES:13C-123478-HxCDF	2.124e6	7.513e5	1.372e6	35.62	0.55	NO	1.217	1.095	1.239e7	21626	572.9	2.422e7	30673	789.5	bd	111.202	76	131	NO
28	ES:13C-123678-HxCDF	2.611e6	8.768e5	1.735e6	35.73	0.51	NO	1.497	1.257	1.407e7	21626	650.7	2.634e7	30673	858.8	db	119.126	70	143	NO
29	ES:13C-234678-HxCDF	2.305e6	7.989e5	1.507e6	36.19	0.53	NO	1.322	1.164	1.338e7	21626	618.8	2.508e7	30673	817.6	bb	113.555	73	137	NO
30	ES:13C-123789-HxCDF	1.973e6	6.888e5	1.284e6	36.94	0.54	NO	1.131	1.074	9.922e6	21626	458.8	1.907e7	30673	621.6	bb	105.277	74	135	NO
31	ES:13C-1234678-HpCDF	1.799e6	5.616e5	1.238e6	38.38	0.45	NO	1.031	0.881	7.495e6	9536	705.9	1.676e7	13776	1216.8	bb	117.122	78	129	NO
32	ES:13C-1234789-HpCDF	1.282e6	4.015e5	8.805e5	40.21	0.46	NO	0.735	0.698	4.664e6	9536	489.0	1.035e7	13776	751.2	bb	105.227	77	129	NO
33	JS:13C-1234-TCDD	2.173e6	9.586e5	1.214e6	29.97	0.79	NO	217...	13727...	8.385e6	3937	2129.6	1.028e7	5719	1797.5	bb	158.295	0.00	0.000	NO
34	JS:13C-123789-HxCDD	1.744e6	9.700e5	7.744e5	36.64	1.25	NO	174...	10932...	1.433e7	9219	1554.8	1.141e7	17817	640.6	db	159.565	0.00	0.000	NO
35	CS:37Cl-2378-TCDD	2.546e5	2.546e5	-	30.69	-	-	1.171	1.186	2.524e6	2845	887.4	-	-	-	bb	9.876	7.9	12.7	NO

Injection Prep Log

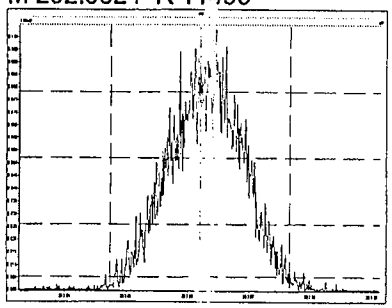
	Sample ID	IJ STD Lot#	IJ Amt (µL)	IJ Conc. (ng/µL)	Final Vol.* (µL)	Analyst (initials)	Date	Method	Comments
1	19548	538-191	20	0.1	20	JHL	5/4/2011 0:00	1613	
2	19549		20	0.1	20	JHL	5/4/2011 0:00	1613	
3	19550		20	0.1	20	JHL	5/4/2011 0:00	1613	
4	31100958001		20	0.1	20	JHL	5/4/2011 0:00	1613	
5	31100958002		20	0.1	20	JHL	5/4/2011 0:00	1613	
6	31100958003		20	0.1	20	JHL	5/4/2011 0:00	1613	
7	31100958004		20	0.1	20	JHL	5/4/2011 0:00	1613	
8	31100958005		20	0.1	20	JHL	5/4/2011 0:00	1613	
9	31100958006		20	0.1	20	JHL	5/4/2011 0:00	1613	
10	31100958007		20	0.1	20	JHL	5/4/2011 0:00	1613	
11	31100958008		20	0.1	20	JHL	5/4/2011 0:00	1613	
12	31100958009		20	0.1	20	JHL	5/4/2011 0:00	1613	
13	31100958010		20	0.1	20	JHL	5/4/2011 0:00	1613	
14	31100958011		20	0.1	20	JHL	5/4/2011 0:00	1613	
15	31100958012		20	0.1	20	JHL	5/4/2011 0:00	1613	
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

JHL 5/4/11

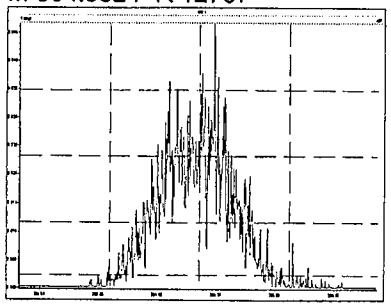
Logbook: 15 Page: 519

Printed: Wednesday, May 04, 2011 13:35:10 Eastern Daylight Time

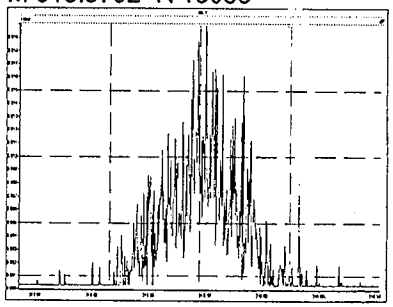
M 292.9824 R 11495



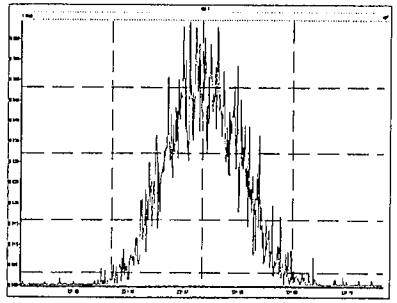
M 304.9824 R 12757



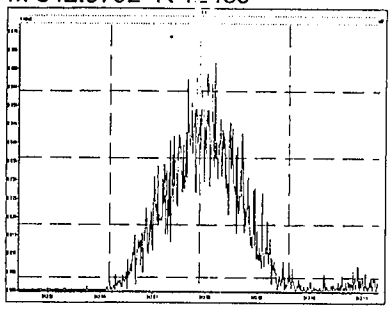
M 318.9792 R 16085



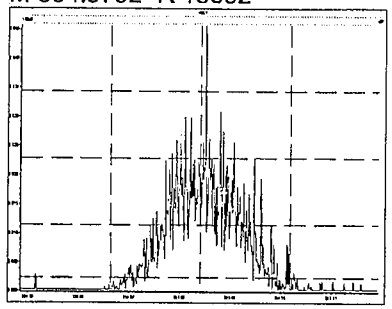
M 330.9792 R 12395



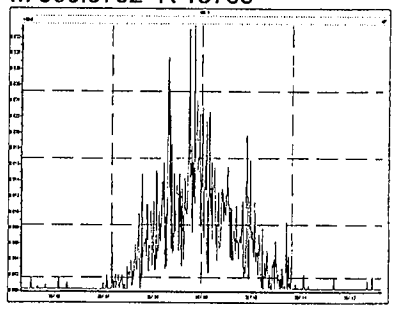
M 342.9792 R 12489



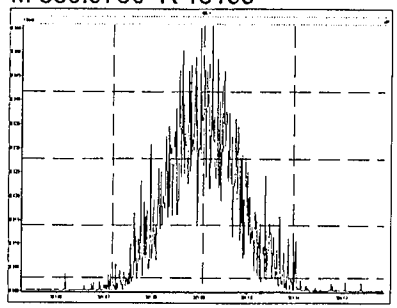
M 354.9792 R 13592



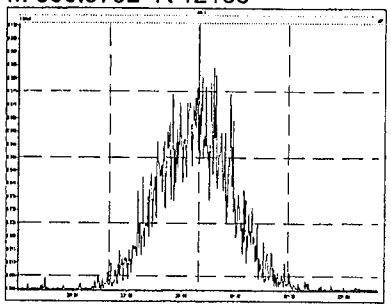
M 366.9792 R 15763



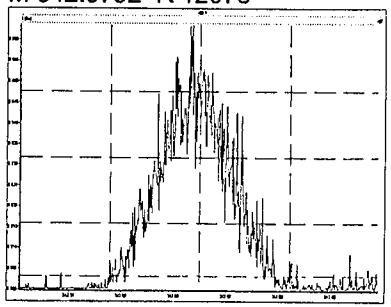
M 380.9760 R 13199



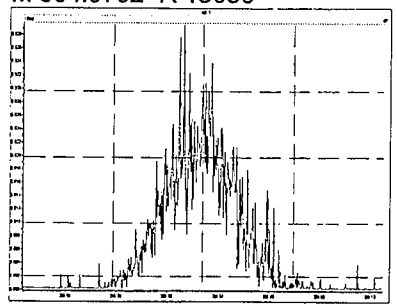
M 330.9792 R 12165



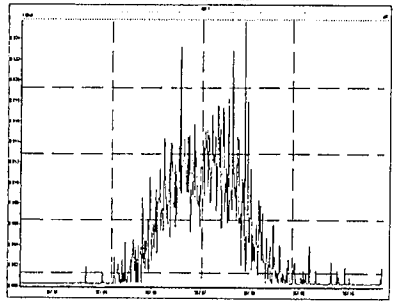
M 342.9792 R 12078



M 354.9792 R 13086



M 366.9792 R 14102



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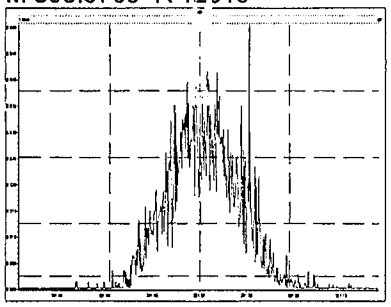
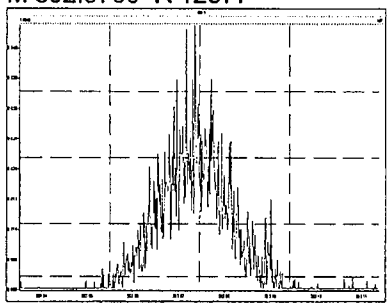
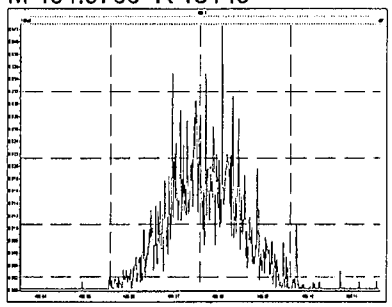
M 380.9760 R 12510



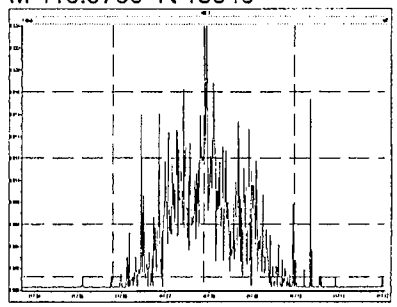
M 392.9760 R 12577



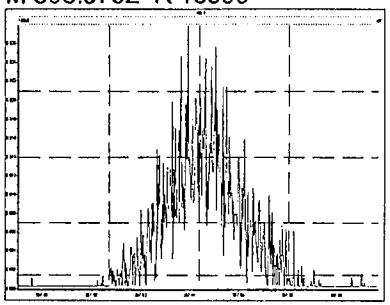
M 404.9760 R 13149



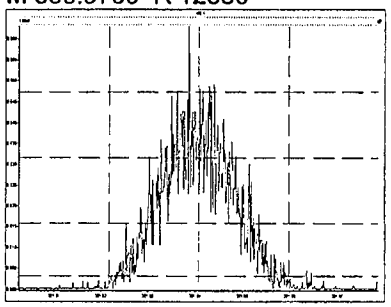
M 416.9760 R 18046



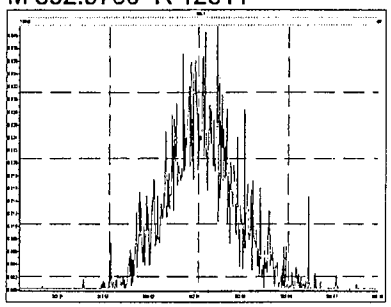
M 366.9792 R 16990



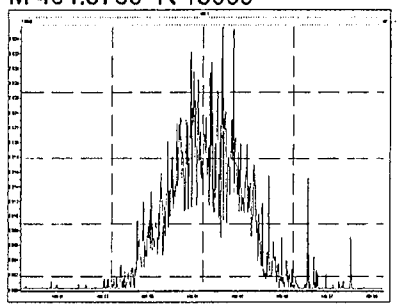
M 380.9760 R 12380



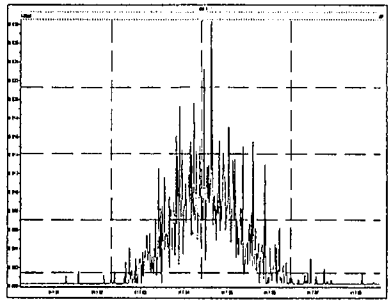
M 392.9760 R 12811



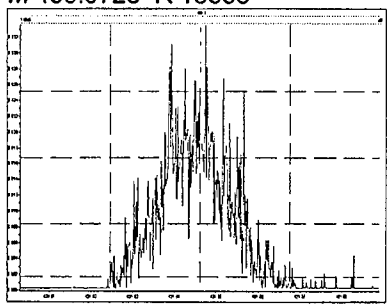
M 404.9760 R 13069



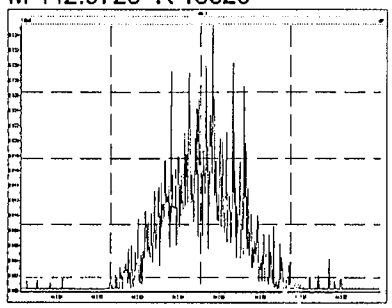
M 416.9760 R 8116



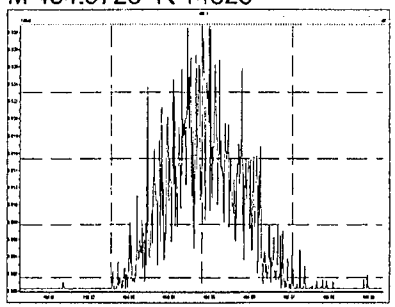
M 430.9728 R 13553



M 442.9728 R 13520



M 454.9728 R 14825



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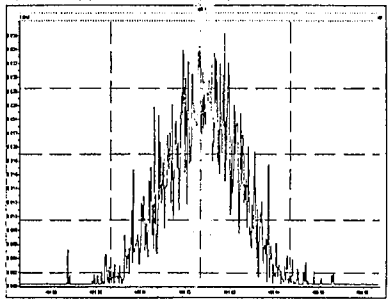
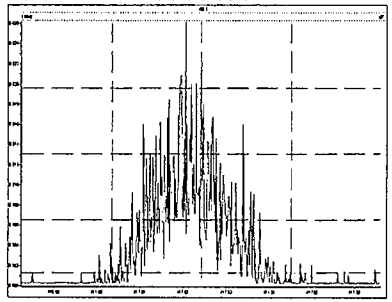
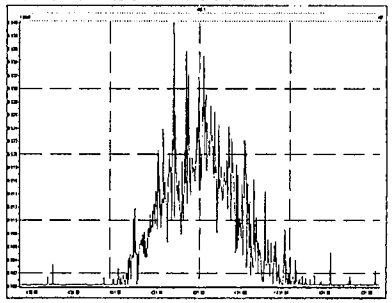
M 404.9760 R 15065



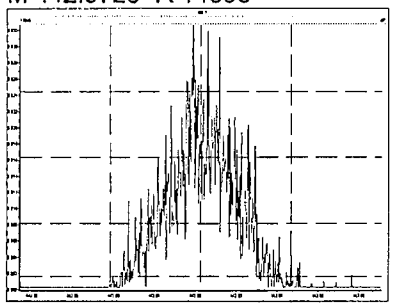
M 416.9760 R 15261



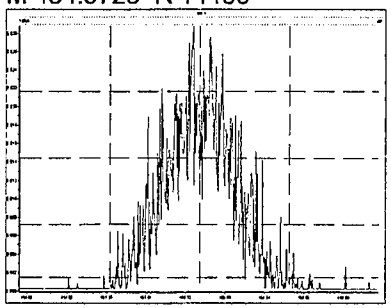
M 430.9728 R 14411



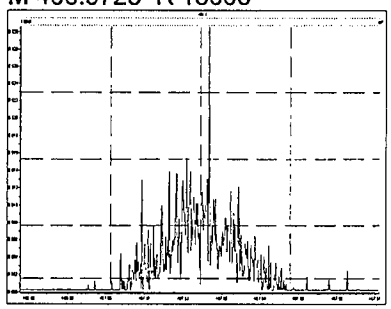
M 442.9728 R 14595



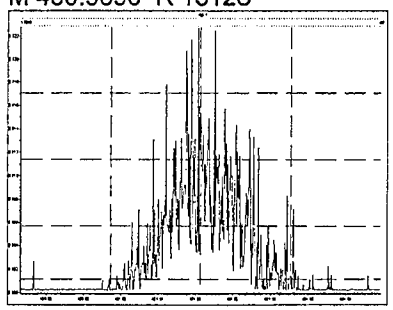
M 454.9728 R 14455



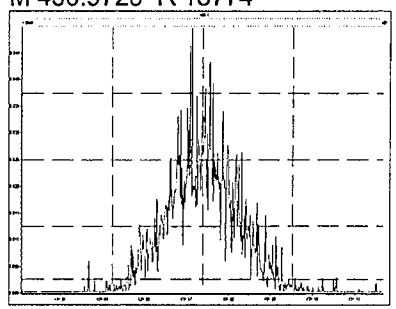
M 466.9728 R 18605



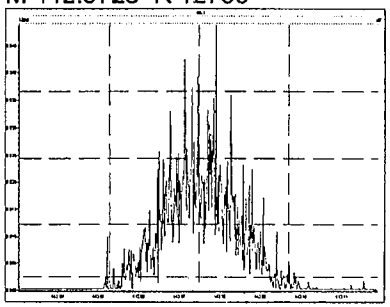
M 480.9696 R 15128



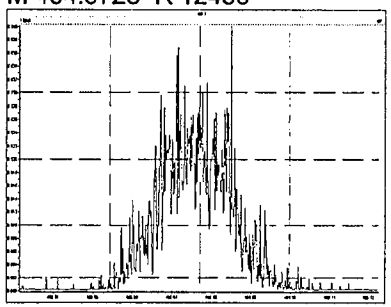
M 430.9728 R 13774



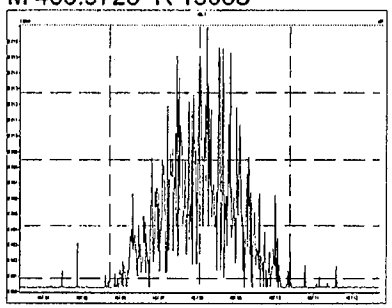
M 442.9728 R 12755



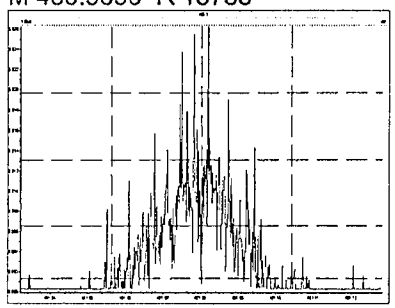
M 454.9728 R 12438



M 466.9728 R 19083



M 480.9696 R 15733



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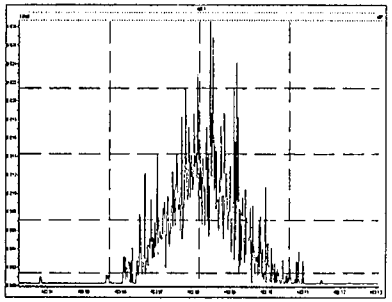
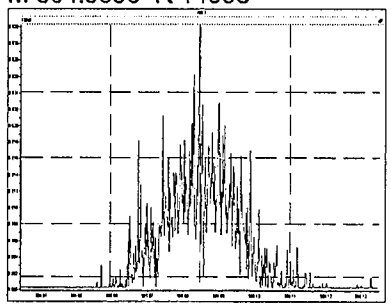
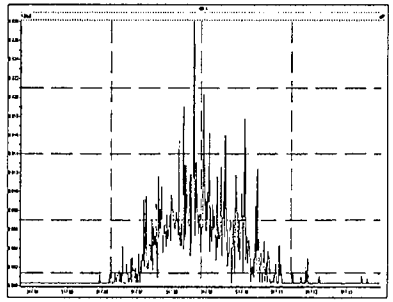
M 492.9696 R 16145



M 504.9696 R 14993



M 516.9697 R 19170



Experiment Calibration Report **MassLynx 4.1 SCN640**

File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

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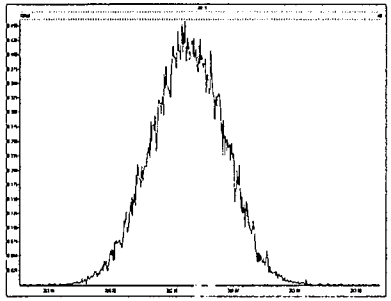
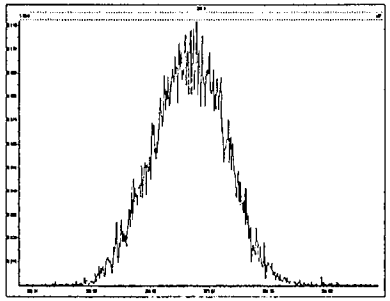
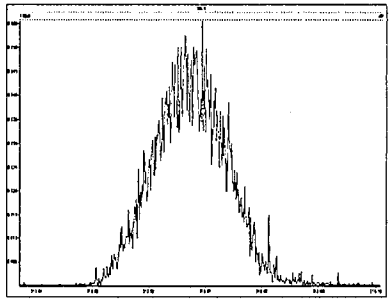
M 292.9824 R 10681



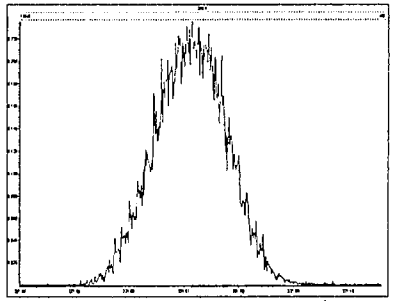
M 304.9824 R 11262



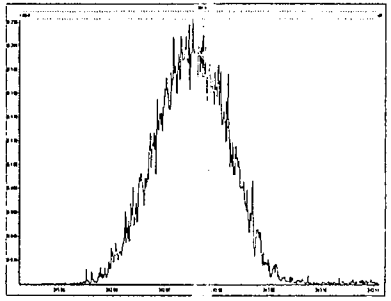
M 318.9792 R 11013



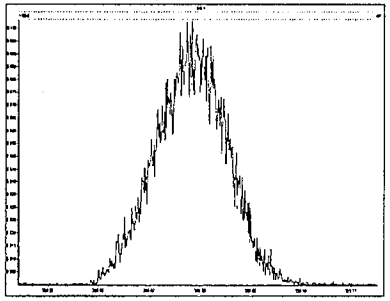
M 330.9792 R 11471



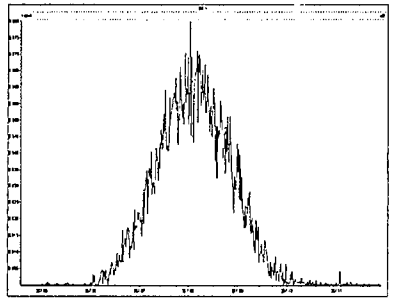
M 342.9792 R 11058



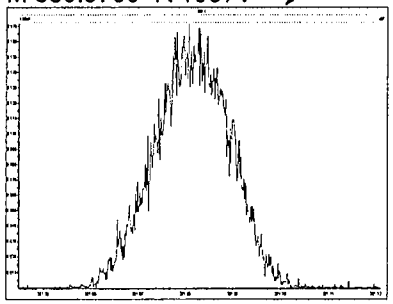
M 354.9792 R 10917



M 366.9792 R 11060



M 380.9760 R 10871

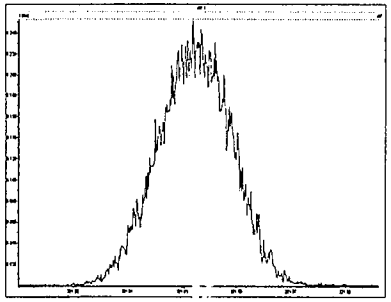


Experiment Calibration Report **MassLynx 4.1 SCN640**

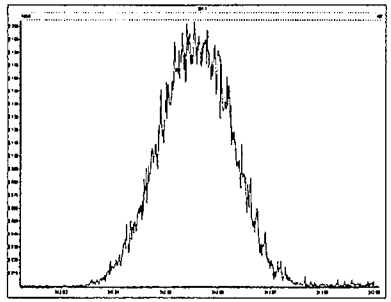
File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, May 04, 2011 13:52:45 Eastern Daylight Time

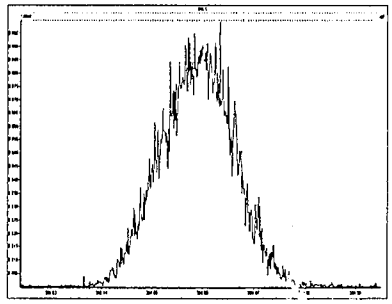
M 330.9792 R 10591



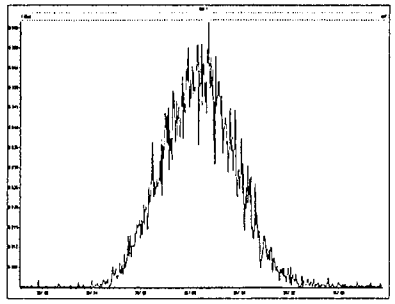
M 342.9792 R 10966



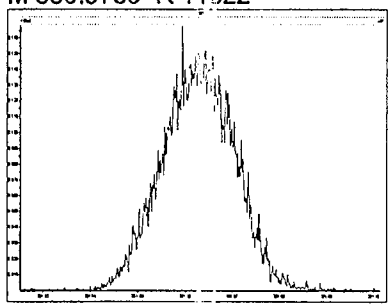
M 354.9792 R 11012



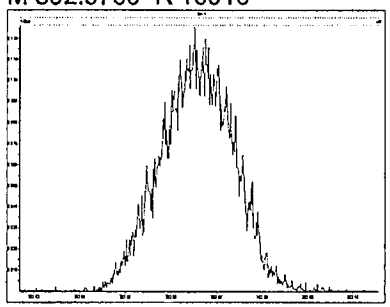
M 366.9792 R 10371



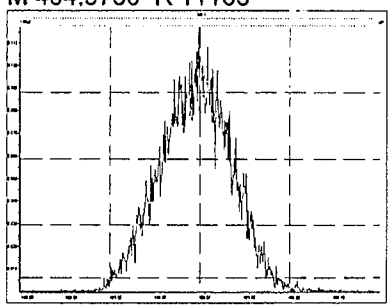
M 380.9760 R 11522



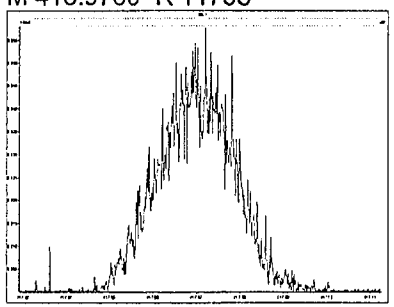
M 392.9760 R 10916



M 404.9760 R 11163



M 416.9760 R 11738



Experiment Calibration Report **MassLynx 4.1 SCN640**

File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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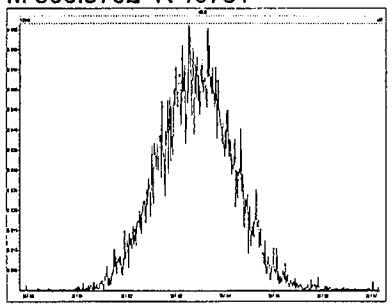
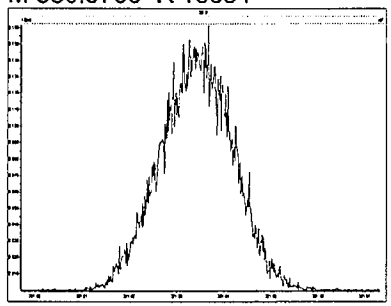
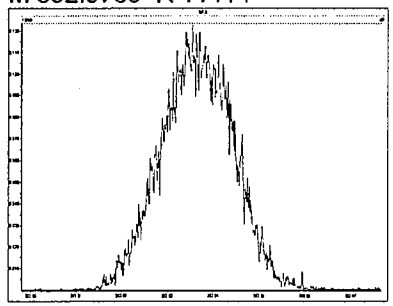
M 366.9792 R 10731



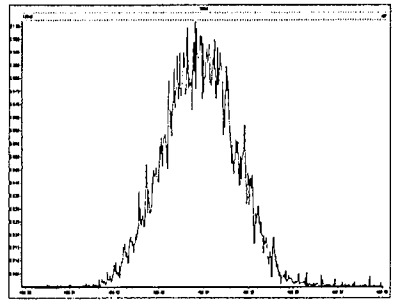
M 380.9760 R 10684



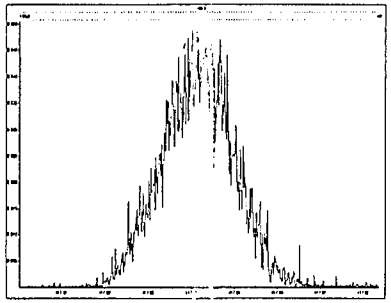
M 392.9760 R 11414



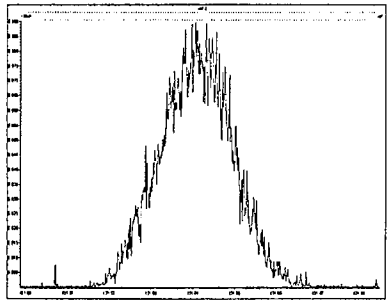
M 404.9760 R 11959



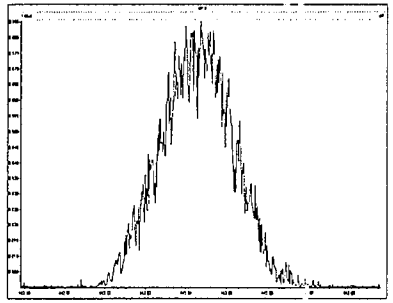
M 416.9760 R 11521



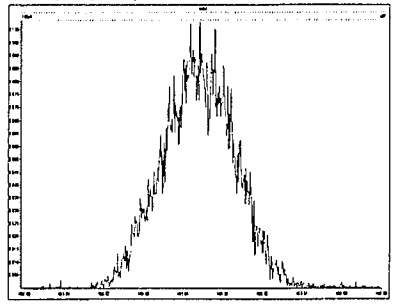
M 430.9728 R 11414



M 442.9728 R 11015



M 454.9728 R 11468

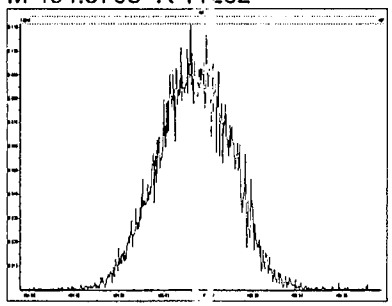


Experiment Calibration Report **MassLynx 4.1 SCN640**

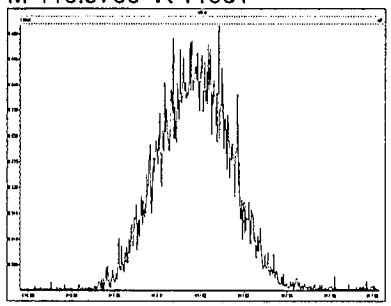
File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, May 04, 2011 13:53:33 Eastern Daylight Time

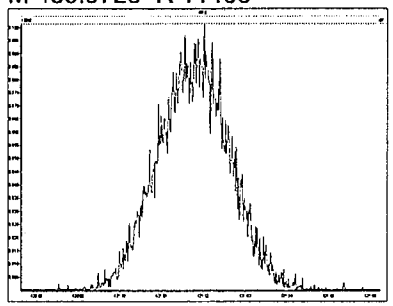
M 404.9760 R 11262



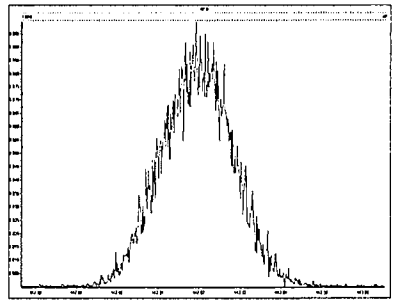
M 416.9760 R 11061



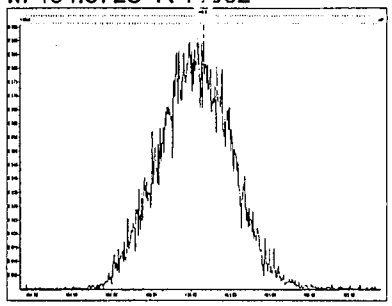
M 430.9728 R 11466



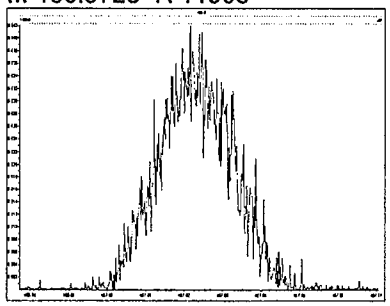
M 442.9728 R 12133



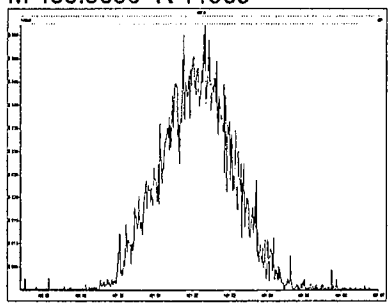
M 454.9728 R 11062



M 466.9728 R 11903



M 480.9696 R 11959

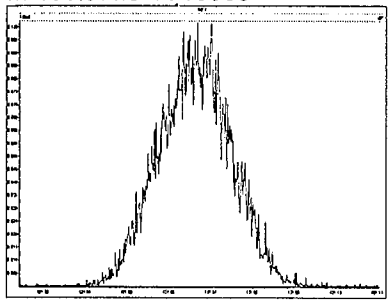


Experiment Calibration Report **MassLynx 4.1 SCN640**

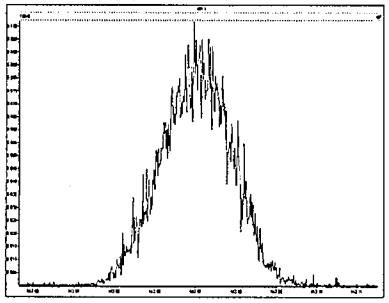
File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, May 04, 2011 13:54:00 Eastern Daylight Time

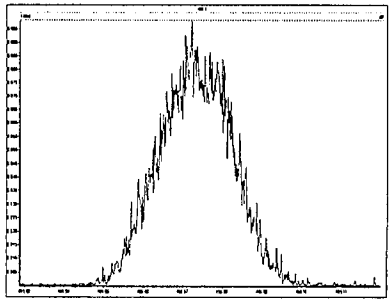
M 430.9728 R 10965



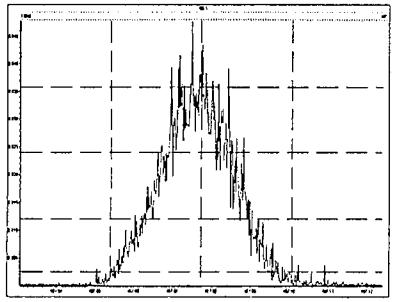
M 442.9728 R 11576



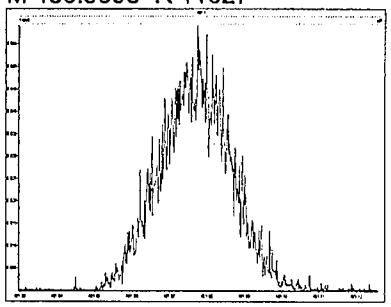
M 454.9728 R 10777



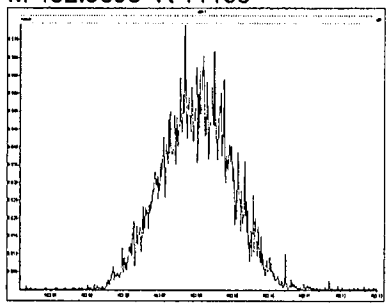
M 466.9728 R 11574



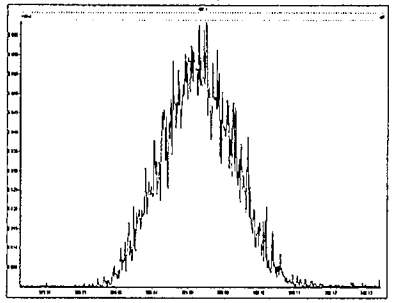
M 480.9696 R 11627



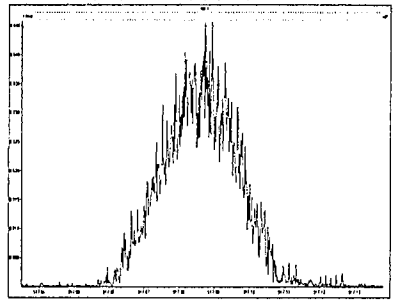
M 492.9696 R 11158



M 504.9696 R 10869



M 516.9697 R 11851



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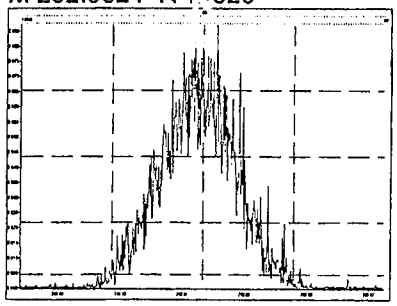
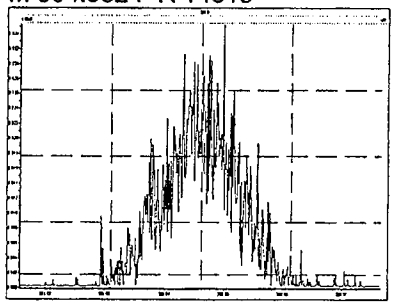
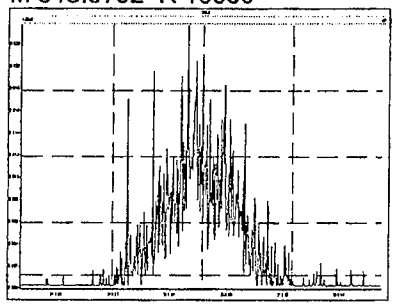
M 292.9824 R 12026



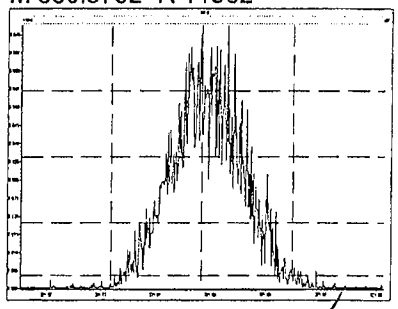
M 304.9824 R 14513



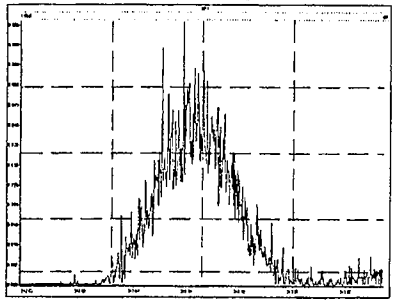
M 318.9792 R 15530



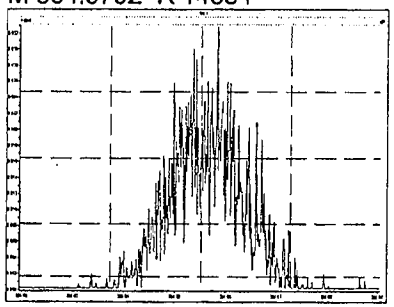
M 330.9792 R 11962



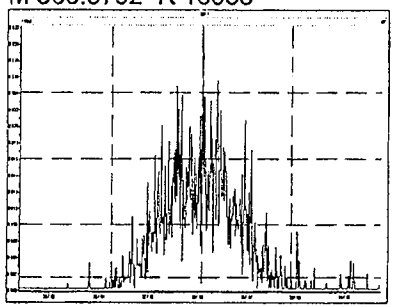
M 342.9792 R 12440



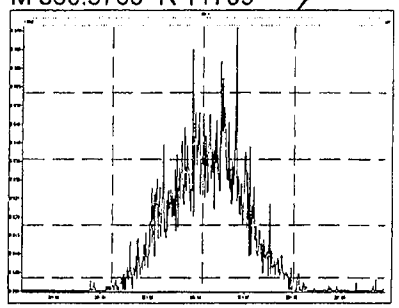
M 354.9792 R 14834



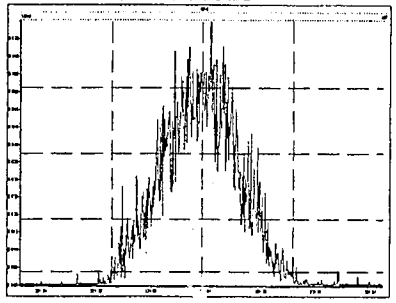
M 366.9792 R 16038



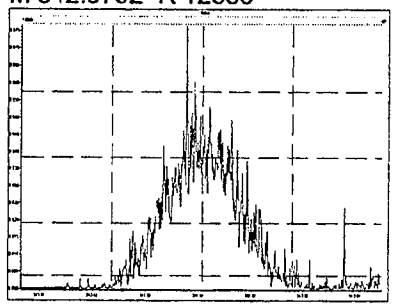
M 380.9760 R 11709



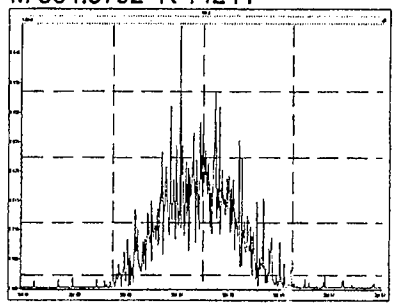
M 330.9792 R 11628



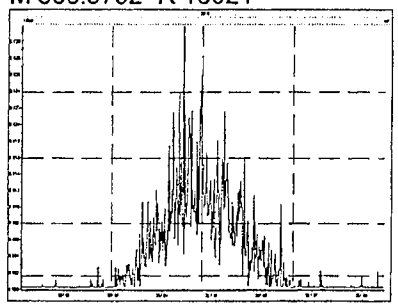
M 342.9792 R 12533



M 354.9792 R 14244



M 366.9792 R 16021



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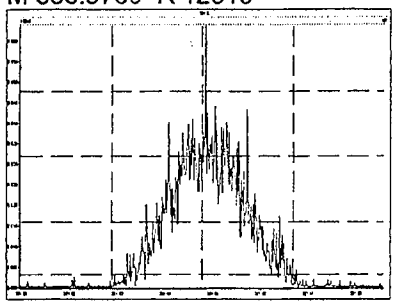
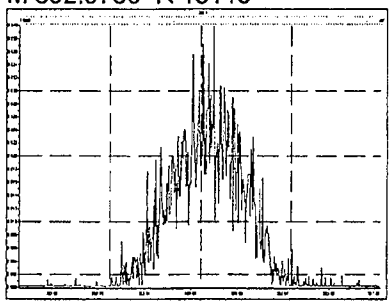
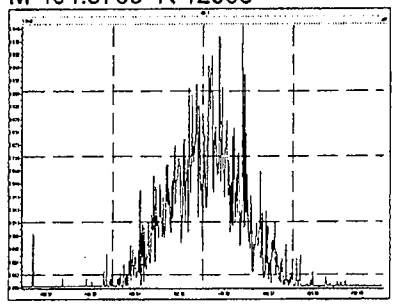
M 380.9760 R 12510



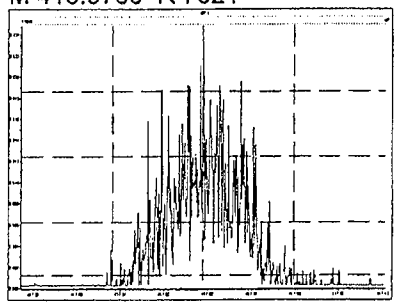
M 392.9760 R 13119



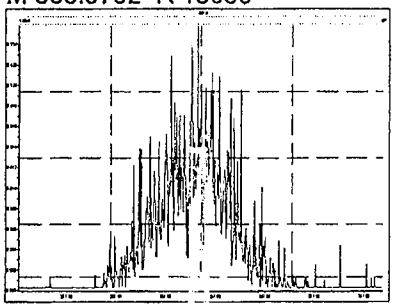
M 404.9760 R 12993



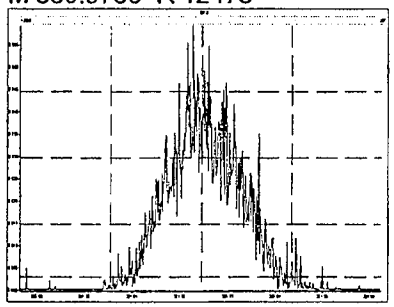
M 416.9760 R 7621



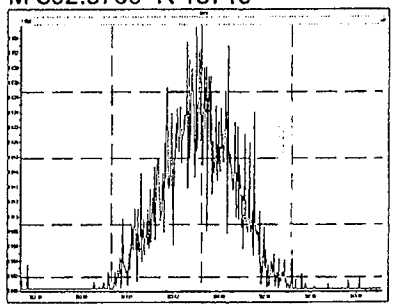
M 366.9792 R 15686



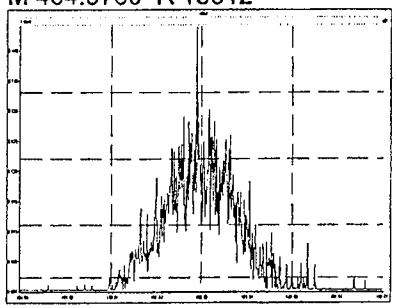
M 380.9760 R 12475



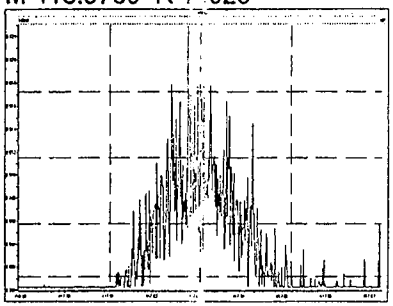
M 392.9760 R 13719



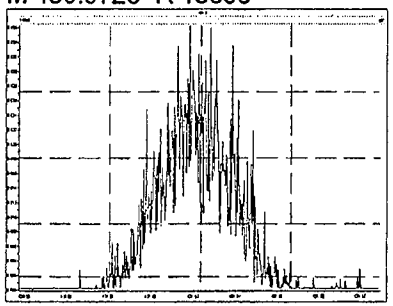
M 404.9760 R 13612



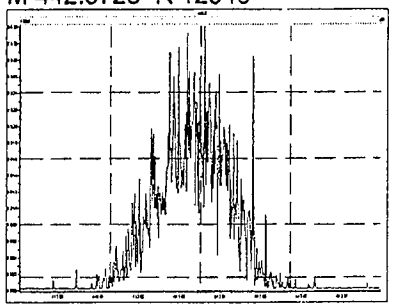
M 416.9760 R 14029



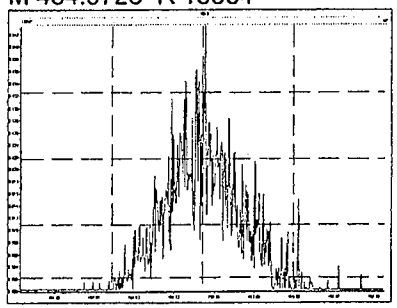
M 430.9728 R 13698



M 442.9728 R 12946



M 454.9728 R 13854



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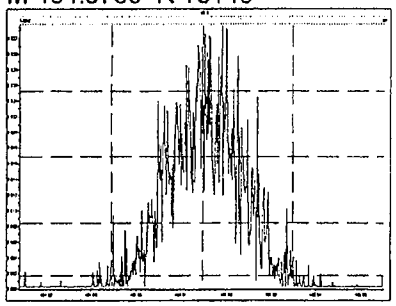
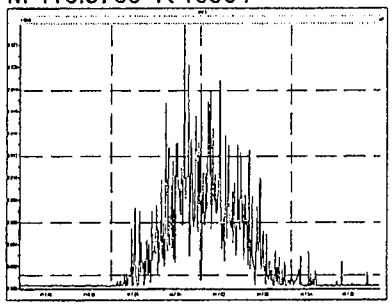
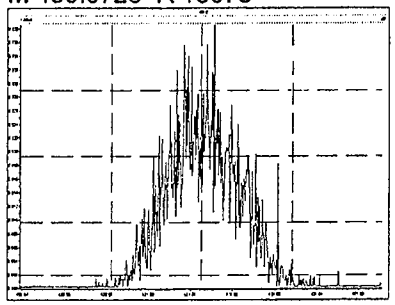
M 404.9760 R 15146



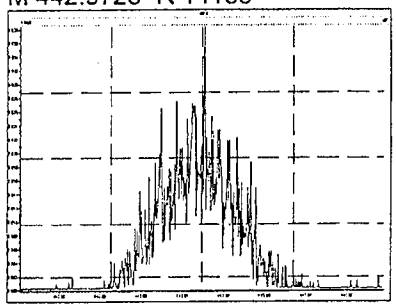
M 416.9760 R 10964



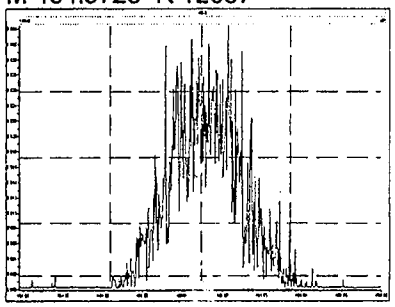
M 430.9728 R 13673



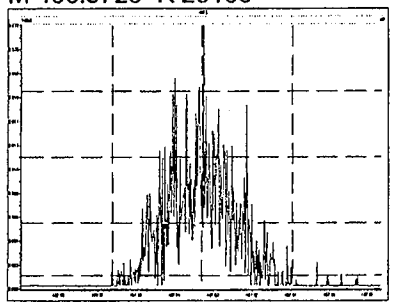
M 442.9728 R 14189



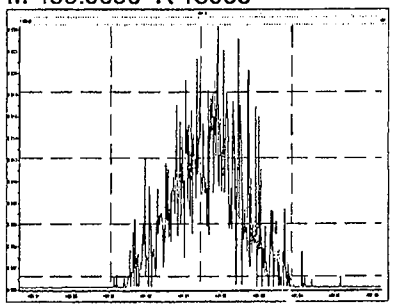
M 454.9728 R 12687



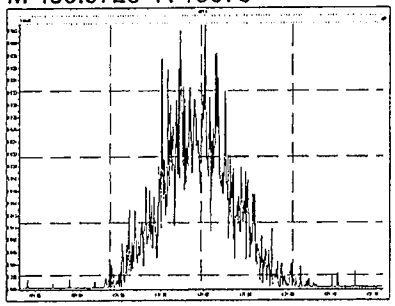
M 466.9728 R 20106



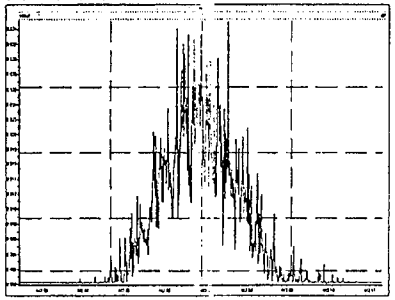
M 480.9696 R 13063



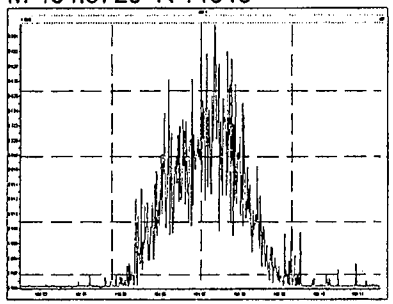
M 430.9728 R 13675



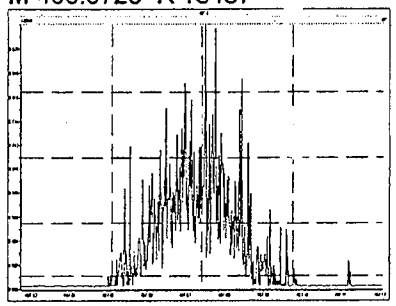
M 442.9728 R 13928



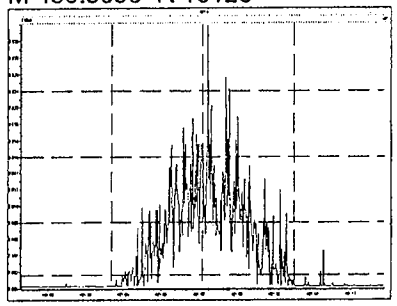
M 454.9728 R 14646



M 466.9728 R 15437

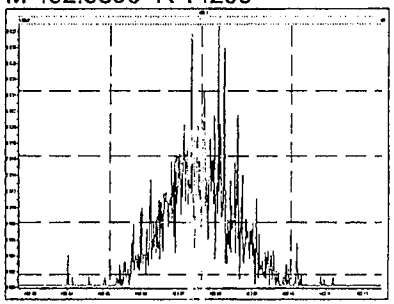


M 480.9696 R 16129

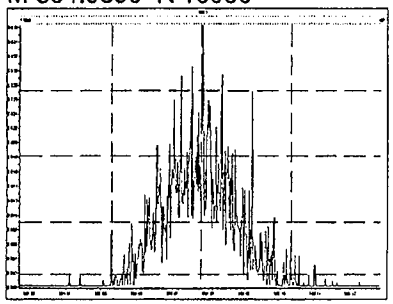


Printed: Thursday, May 05, 2011 00:36:26 Eastern Daylight Time

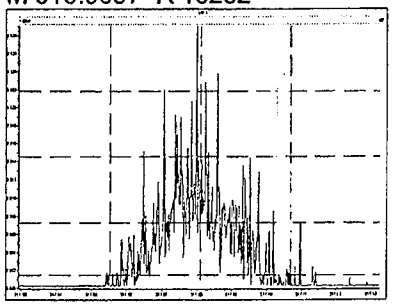
M 492.9696 R 14205

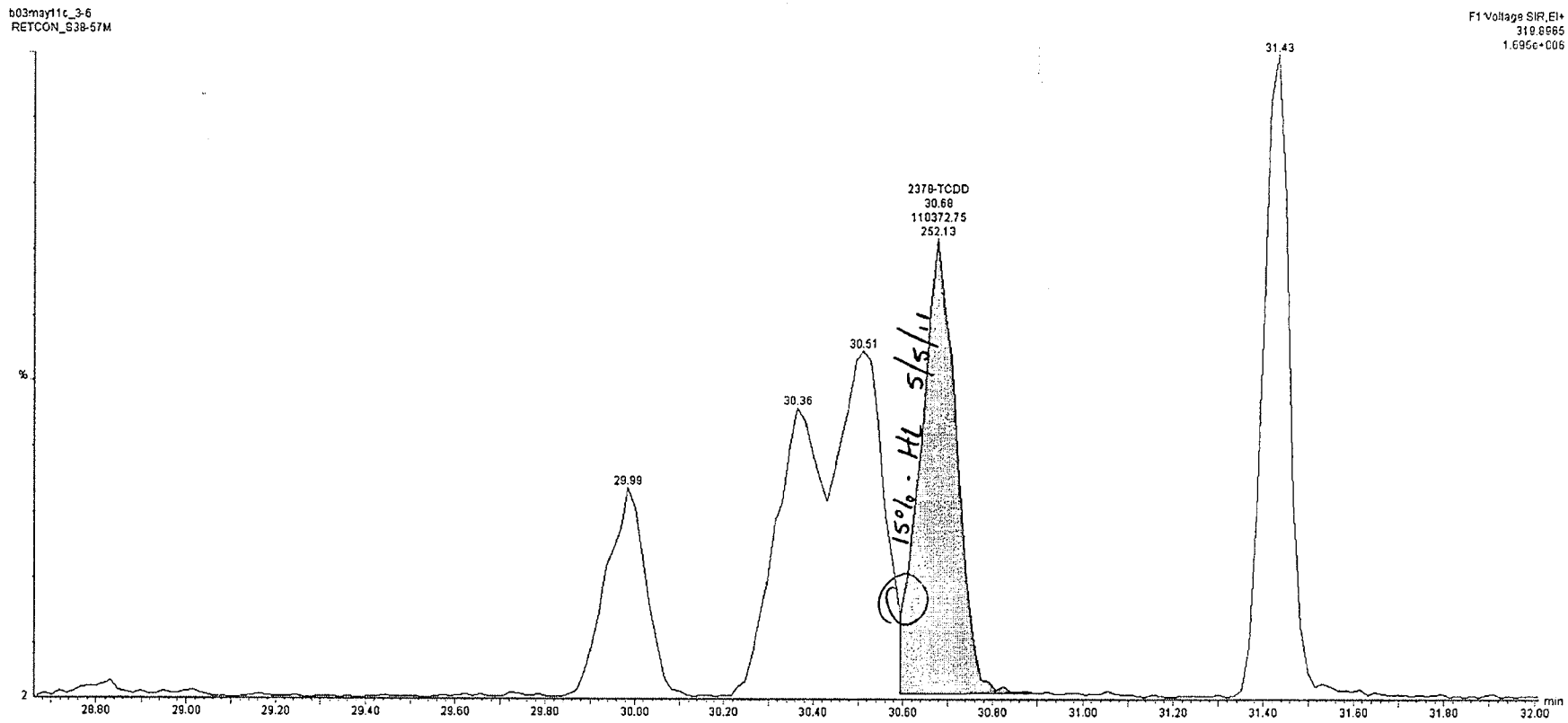


M 504.9696 R 16080



M 516.9697 R 15252




b03may11c_3-6
RETCON_S38-57M
F1 Voltage SIR,EI+
319.8965
1.695e+006
2378-TCDD
30.68
110372.75
252.13
29.99
30.36
30.51
31.43
%
2
min
28.80
29.00
29.20
29.40
29.60
29.80
30.00
30.20
30.40
30.60
30.80
31.00
31.20
31.40
31.60
31.80
32.00
15% - HL 5/5/11

Quantify Sample Summary Report **MassLynx 4.1 SCN640**

Dataset: Untitled

Last Altered: 05-May-11 8:21:45 AM Eastern Daylight Time
Printed: 05-May-11 8:24:22 AM Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\DxWdmGcp.mdb 04 May 2011 08:23:35
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\m1613-010611b.cdb 06 Jan 2011 17:35:11

Name: b03may11c_3-6
Date: 04-May-2011
Time: 12:37:15
ID: RETCON_S38-57M
Description:
Instrument:
User: JLJ

	Name	RT
1	First TCDF	25.48
2	Last TCDF	31.52
3	First PeCDF (F1)	31.50
4	First PeCDF (F2)	32.40
5	Last PeCDF (F2)	34.21
6	First HxCDF	34.71
7	Last HxCDF	36.95
8	First HpCDF	38.39
9	Last HpCDF	40.22
10	OCDF	43.91
11	First TCDD	27.20
12	2378-TCDD	30.68
13	Last TCDD	31.43
14	First PeCDD	32.45
15	Last PeCDD	34.05
16	First HxCDD	35.13
17	Last HxCDD	36.65
18	First HpCDD	38.70
19	Last HpCDD	39.59
20	OCDD	43.63

SGS North America, Inc.

DIOXIN Analysis Run

Instrument: HRMS2

Data File	Sample ID	Analyst	Acquisition Date/Time	Inj.Vo.
b09may11c-1	RETCON_S38-57M gets	JLJ	2011-05-09 11:56:47	1 uL
b09may11c-2	19554	JLJ	2011-05-09 12:46:38	1 uL
b09may11c-3	19555	JLJ	2011-05-09 13:36:09	1 uL
b09may11c-4	19553	JLJ	2011-05-09 14:26:07	1 uL
b09may11c-5	31100958013 ←	JLJ	2011-05-09 15:16:06	1 uL
b09may11c-6	31100958014 ←	JLJ	2011-05-09 16:06:05	1 uL
b09may11c-7	31100958008 ←	JLJ	2011-05-09 17:06:37	1 uL
b09may11c-8	31100958009 ←	JLJ	2011-05-09 17:56:04	1 uL
b09may11c-9	31100958010	JLJ	2011-05-09 18:46:05	1 uL
b09may11c-10	31100958011	JLJ	2011-05-09 19:36:05	1 uL
b09may11c-11	31100958012 ←	JLJ	2011-05-09 20:26:07	1 uL
b09may11c-12	RETCON_S38-57M fail-next run not used	JLJ	2011-05-09 21:24:10	1 uL

JLJ 051011

TM 5-10-11

Injection Prep Log

	Sample ID	IJ STD Lot#	IJ Amt (µL)	IJ Conc. (ng/µL)	Final Vol.* (µL)	Analyst (initials)	Date	Method	Comments
1	18153	538-180	20	0.1	20	JHL	4/21/2011 16:25	8290	
2	18154		20	0.1	20	JHL	4/21/2011 16:25	8290	
3	18155		20	0.1	20	JHL	4/21/2011 16:25	8290	
4	31100838001		20	0.1	20	JHL	4/21/2011 16:25	8290	
5	31100734001		20	0.1	20	JHL	4/21/2011 16:25	8290	
6	31100770001		20	0.1	20	JHL	4/21/2011 16:25	8290	
7	31100770002		20	0.1	20	JHL	4/21/2011 16:25	8290	
8	31100770003		20	0.1	20	JHL	4/21/2011 16:25	8290	
9	31100771001		20	0.1	20	JHL	4/21/2011 16:25	8290	
10	31100771002		20	0.1	20	JHL	4/21/2011 16:25	8290	
11	31100773001		20	0.1	20	JHL	4/21/2011 16:25	8290	
12	31100773002		20	0.1	20	JHL	4/21/2011 16:25	8290	
13	31100773003		20	0.1	20	JHL	4/21/2011 16:25	8290	
14	31100773004		20	0.1	20	JHL	4/21/2011 16:25	8290	
15	31100772001		20	0.1	20	JHL	4/21/2011 16:25	8290	
16									
17									
18							JH		
19							4/21/11		
20									
21									
22									
23									
24									
25									

Logbook: 15 Page: 506

Quantify Sample Summary Report **MassLynx 4.1 SCN640**
1613 CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\1613\b09may11c-1.qld

Last Altered: 09-May-11 12:45:19 PM Eastern Daylight Time
Printed: 09-May-11 12:54:09 PM Eastern Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\m1613-050511a.mdb 05 May 2011 11:27:50
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\m1613-010611b.cdb 06 Jan 2011 17:35:11

Name: b09may11c-1
Date: 09-May-2011
Time: 11:56:47
ID: RETCON_S38-57M
Instrument:
User: JLJ

CCV

	Name	Response	Ion1Ar...	Ion2Area	RT	RA	RAFail?	RRF	IcalRRF	Height1	Noise1	SN1	Height2	Noise2	SN2	M	pg/µL	Low	High	Fail?
1	2378-TCDD	1.512e5	6.616e4	8.501e4	30.71	0.78	NO	1.107	1.172	6.818e5	2701	252.4	8.713e5	1930	451.5	db	9.448	7.8	12.9	NO
2	12378-PeCDD	6.566e5	4.004e5	2.562e5	33.82	1.56	NO	1.061	1.038	7.717e6	5227	1476.3	4.857e6	6458	752.1	bb	51.111	39	65.0	NO
3	123478-HxCDD	6.833e5	3.778e5	3.055e5	36.38	1.24	NO	1.039	1.019	6.583e6	12969	507.6	5.207e6	10243	508.4	bd	51.000	39	64.0	NO
4	123678-HxCDD	6.161e5	3.404e5	2.757e5	36.47	1.23	NO	0.991	0.941	6.269e6	12969	483.4	4.990e6	10243	487.2	dd	52.687	39	64.0	NO
5	123789-HxCDD	6.456e5	3.548e5	2.908e5	36.69	1.22	NO	1.009	0.937	5.996e6	12969	462.4	5.077e6	10243	495.7	db	53.894	41	61.0	NO
6	1234678-HpCDD	5.526e5	2.803e5	2.723e5	39.66	1.03	NO	1.083	1.024	4.161e6	6522	638.0	3.954e6	5370	736.4	bb	52.881	43	58.0	NO
7	OCDD	1.016e6	4.815e5	5.344e5	43.72	0.90	NO	1.081	1.051	5.573e6	4407	1264.5	6.134e6	5473	1120.8	bd	102.857	79	126	NO
8	2378-TCDF	2.136e5	9.438e4	1.192e5	29.75	0.79	NO	0.989	0.889	8.396e5	2488	337.5	1.142e6	2638	432.9	bb	11.124	8.4	12.0	NO
9	12378-PeCDF	9.692e5	5.893e5	3.799e5	33.02	1.55	NO	0.998	0.918	1.198e7	9973	1201.5	7.484e6	7489	999.3	dd	54.361	41	60.0	NO
10	23478-PeCDF	9.789e5	5.950e5	3.839e5	33.63	1.55	NO	1.021	0.932	1.203e7	9973	1206.0	7.906e6	7489	1055.7	bb	54.807	41	61.0	NO
11	123478-HxCDF	9.159e5	5.053e5	4.106e5	35.68	1.23	NO	1.172	1.125	9.550e6	13976	683.3	7.843e6	12425	631.3	bd	52.092	45	56.0	NO
12	123678-HxCDF	9.506e5	5.312e5	4.194e5	35.78	1.27	NO	1.171	1.079	9.685e6	13976	693.0	7.706e6	12425	620.2	db	54.256	44	57.0	NO
13	234678-HxCDF	9.230e5	5.166e5	4.064e5	36.25	1.27	NO	1.157	1.080	9.214e6	13976	659.3	7.493e6	12425	603.1	bd	53.580	45	56.0	NO
14	123789-HxCDF	8.004e5	4.457e5	3.547e5	37.00	1.26	NO	1.107	1.024	7.068e6	13976	505.7	5.791e6	12425	466.1	bd	54.054	44	57.0	NO
15	1234678-HpCDF	8.933e5	4.545e5	4.388e5	38.44	1.04	NO	1.389	1.269	7.259e6	6540	1110.0	7.056e6	7469	944.7	bb	54.727	45	55.0	NO
16	1234789-HpCDF	7.137e5	3.648e5	3.488e5	40.29	1.05	NO	1.402	1.298	5.315e6	6540	812.8	5.029e6	7469	673.3	bd	54.010	43	58.0	NO
17	OCDF	1.188e6	5.675e5	6.208e5	43.99	0.91	NO	1.264	1.195	6.222e6	4149	1499.7	6.881e6	3994	1722.7	bd	105.771	63	159	NO
18	ES:13C-2378-TCDD	1.366e6	6.043e5	7.614e5	30.68	0.79	NO	1.009	1.005	6.188e6	3589	1724.3	7.730e6	2633	2935.4	bb	100.336	82	121	NO
19	ES:13C-12378-PeCDD	1.237e6	7.588e5	4.785e5	33.81	1.59	NO	0.914	0.844	1.533e7	6746	2271.8	9.778e6	3323	2942.1	bb	108.269	62	160	NO
20	ES:13C-123478-HxCDD	1.315e6	7.339e5	5.812e5	36.37	1.26	NO	1.041	0.952	1.266e7	8269	1530.9	9.879e6	8252	1197.1	bd	109.347	85	117	NO
21	ES:13C-123678-HxCDD	1.243e6	6.932e5	5.497e5	36.46	1.26	NO	0.984	1.118	1.235e7	8269	1493.9	9.891e6	8252	1198.6	dd	87.950	85	118	NO
22	ES:13C-1234678-HpCDD	1.021e6	5.321e5	4.885e5	39.64	1.09	NO	0.808	0.766	7.960e6	6090	1307.0	7.363e6	5682	1295.7	bb	105.516	72	138	NO
23	ES:13C-OCDD	1.880e6	8.849e5	9.948e5	43.71	0.89	NO	0.744	0.676	1.006e7	4430	2271.6	1.134e7	5819	1949.4	bb	220.104	96	415	NO
24	ES:13C-2378-TCDF	2.160e6	9.505e5	1.209e6	29.74	0.79	NO	1.595	1.528	8.741e6	4276	2044.4	1.096e7	3186	3441.2	bb	104.414	71	140	NO
25	ES:13C-12378-PeCDF	1.943e6	1.175e6	7.679e5	33.01	1.53	NO	1.435	1.268	2.426e7	10431	2325.7	1.585e7	11567	1370.2	bb	113.176	76	130	NO
26	ES:13C-23478-PeCDF	1.917e6	1.162e6	7.549e5	33.62	1.54	NO	1.416	1.258	2.366e7	10431	2267.9	1.527e7	11567	1320.5	bb	112.529	77	130	NO

Quantify Sample Summary Report **MassLynx 4.1 SCN640**
1613 CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\1613\b09may11c-1.qld

Last Altered: 09-May-11 12:45:19 PM Eastern Daylight Time
Printed: 09-May-11 12:54:09 PM Eastern Daylight Time

Name: b09may11c-1
Date: 09-May-2011
Time: 11:56:47
ID: RETCON_S38-57M
Instrument:
User: JLJ

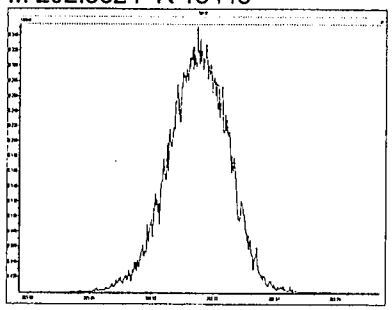
	Name	Response	Ion1Ar...	Ion2Area	RT	RA	RAFail?	RRF	IcalRRF	Height1	Noise1	SN1	Height2	Noise2	SN2	M	pg/µL	Low	High	Fail?
27	ES:13C-123478-HxCDF	1.563e6	5.336e5	1.030e6	35.67	0.52	NO	1.237	1.095	9.806e6	7363	1331.8	1.892e7	14165	1336.0	bd	113.010	76	131	NO
28	ES:13C-123678-HxCDF	1.623e6	5.613e5	1.062e6	35.77	0.53	NO	1.285	1.257	1.042e7	7363	1415.5	1.943e7	14165	1371.6	db	102.224	70	143	NO
29	ES:13C-234678-HxCDF	1.595e6	5.571e5	1.038e6	36.24	0.54	NO	1.262	1.164	9.999e6	7363	1358.0	1.912e7	14165	1349.9	bb	108.471	73	137	NO
30	ES:13C-123789-HxCDF	1.446e6	5.014e5	9.448e5	36.98	0.53	NO	1.145	1.074	8.337e6	7363	1132.3	1.568e7	14165	1106.9	bb	106.537	74	135	NO
31	ES:13C-1234678-HpCDF	1.286e6	4.007e5	8.856e5	38.43	0.45	NO	1.018	0.881	6.337e6	4800	1320.3	1.403e7	5883	2385.5	bb	115.598	78	129	NO
32	ES:13C-1234789-HpCDF	1.018e6	3.159e5	7.023e5	40.28	0.45	NO	0.806	0.698	4.544e6	4800	946.8	9.993e6	5883	1698.5	bb	115.386	77	129	NO
33	JS:13C-1234-TCDD	1.354e6	6.026e5	7.513e5	29.99	0.80	NO	135...	13727...	5.472e6	3589	1524.8	6.751e6	2633	2563.6	bb	98.631	0.00	0.000	NO
34	JS:13C-123789-HxCDD	1.264e6	7.021e5	5.614e5	36.68	1.25	NO	126...	10932...	1.205e7	8269	1457.4	9.671e6	8252	1172.0	db	115.575	0.00	0.000	NO
35	CS:37Cl-2378-TCDD	1.609e5	1.609e5	-	30.71	-	-	1.188	1.186	1.600e6	1930	829.1	-	-	-	bb	10.017	7.9	12.7	NO

Experiment Calibration Report **MassLynx 4.1 SCN640**

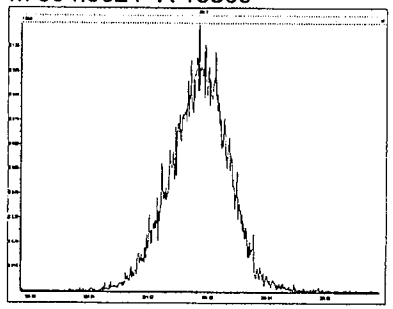
File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 09, 2011 11:54:30 Eastern Daylight Time

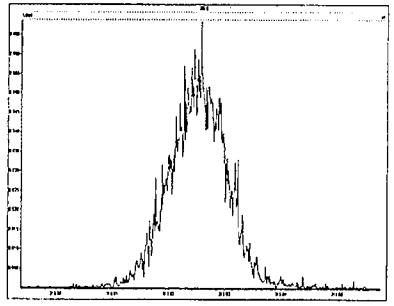
M 292.9824 R 13443



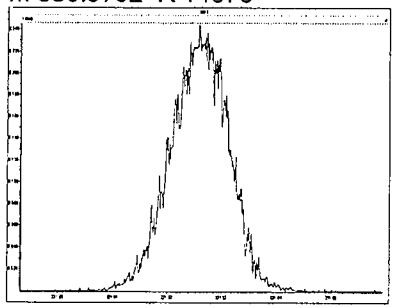
M 304.9824 R 13369



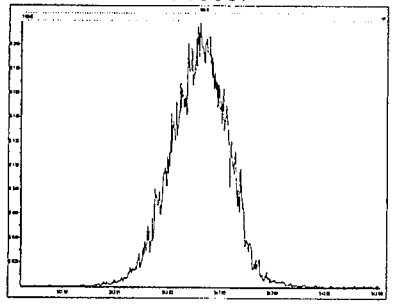
M 318.9792 R 14284



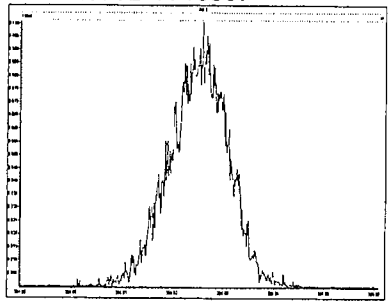
M 330.9792 R 14876



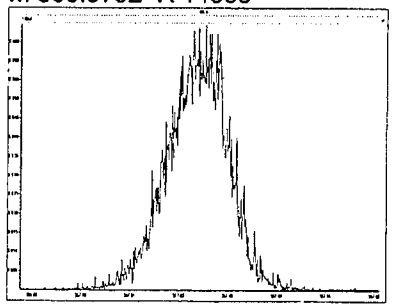
M 342.9792 R 13587



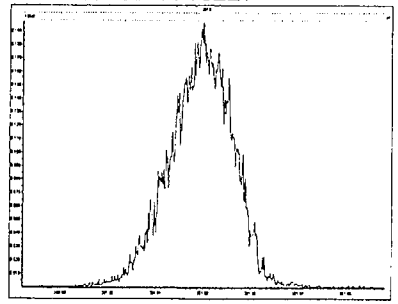
M 354.9792 R 13887



M 366.9792 R 14363



M 380.9760 R 13227

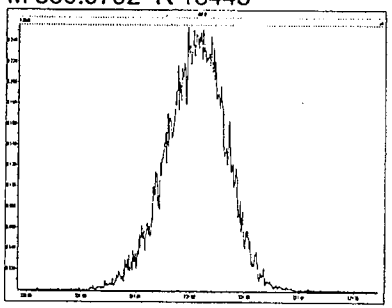


Experiment Calibration Report **MassLynx 4.1 SCN640**

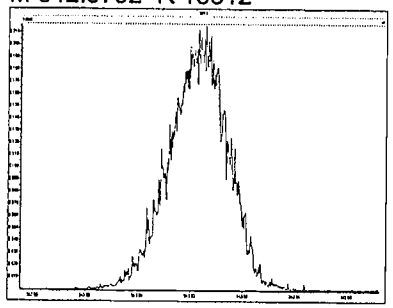
File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 09, 2011 11:54:51 Eastern Daylight Time

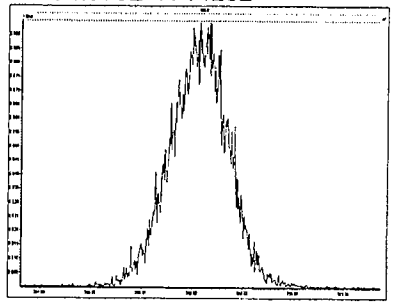
M 330.9792 R 13443



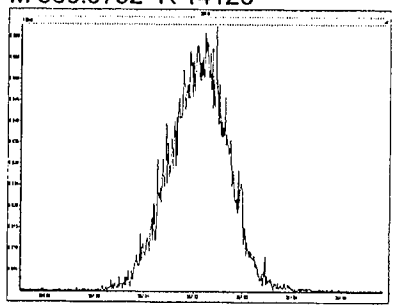
M 342.9792 R 13812



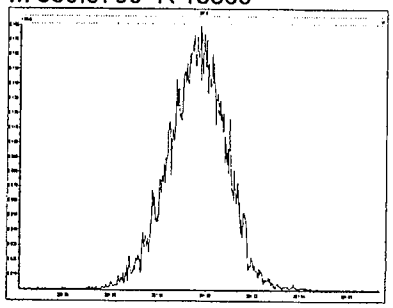
M 354.9792 R 14202



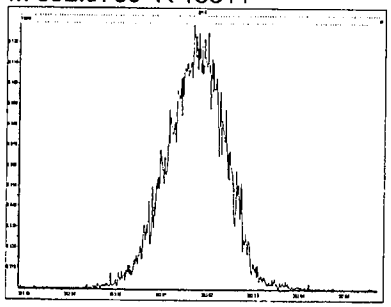
M 366.9792 R 14126



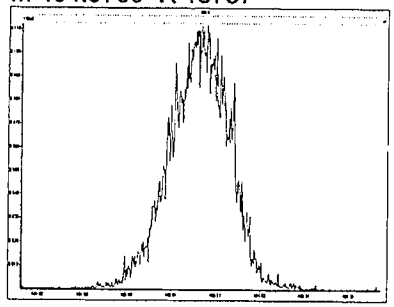
M 380.9760 R 13889



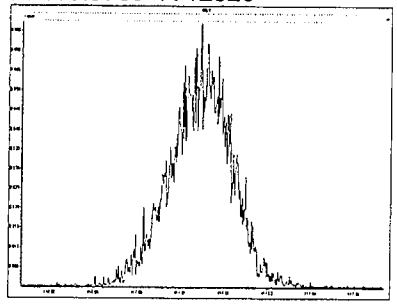
M 392.9760 R 13511



M 404.9760 R 13737



M 416.9760 R 12820



Experiment Calibration Report **MassLynx 4.1 SCN640**

File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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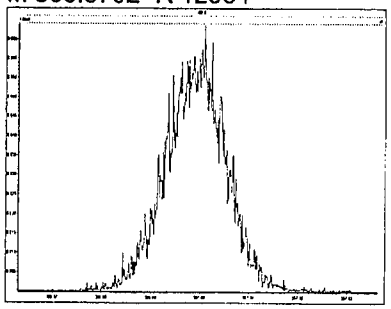
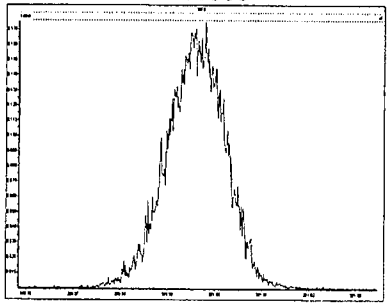
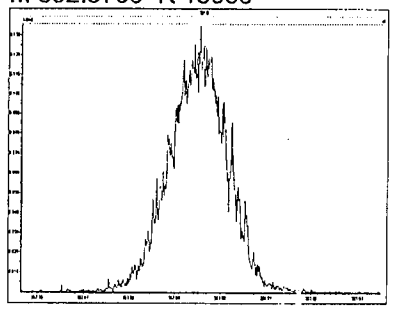
M 366.9792 R 12954



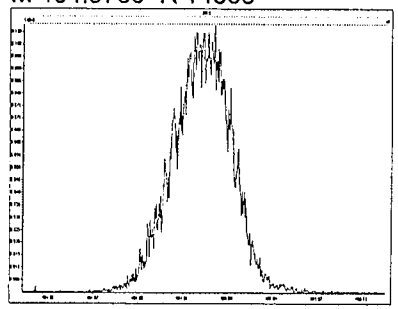
M 380.9760 R 13888



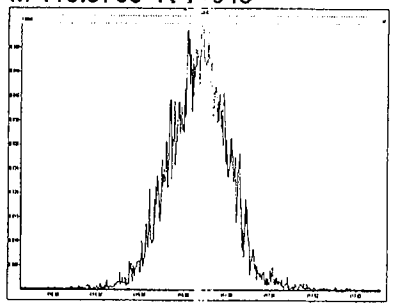
M 392.9760 R 13658



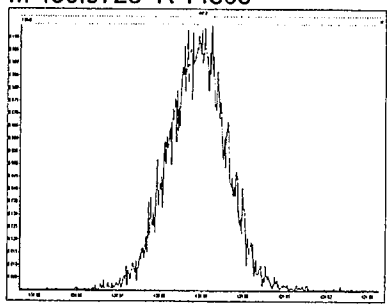
M 404.9760 R 14368



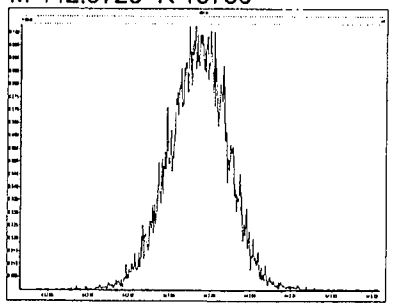
M 416.9760 R 14043



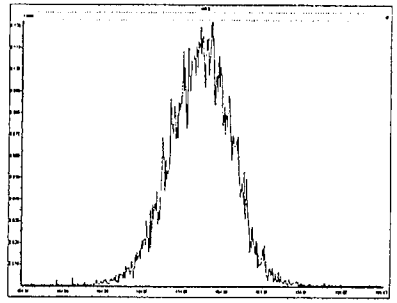
M 430.9728 R 14365



M 442.9728 R 13736



M 454.9728 R 13660



Experiment Calibration Report

MassLynx 4.1 SCN640

File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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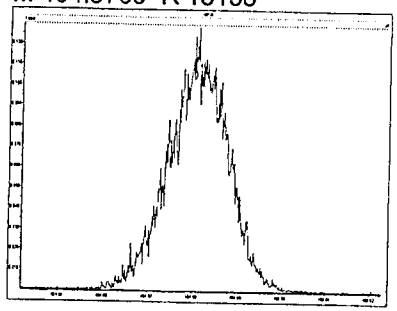
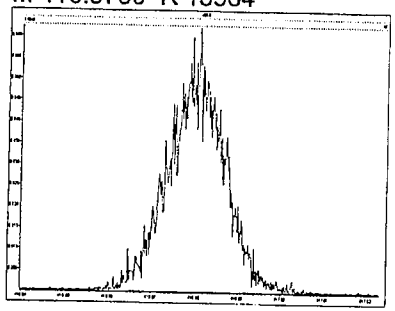
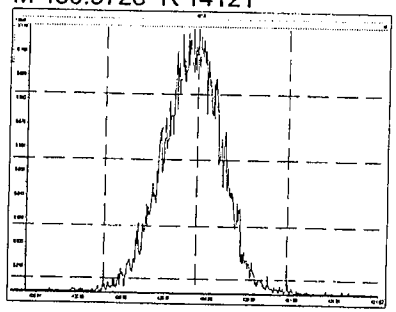
M 404.9760 R 13158



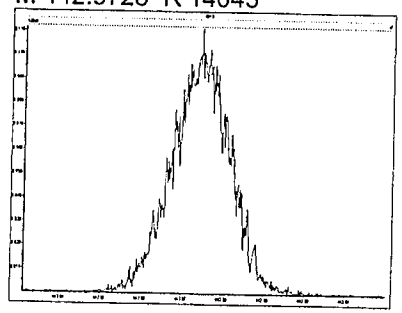
M 416.9760 R 13964



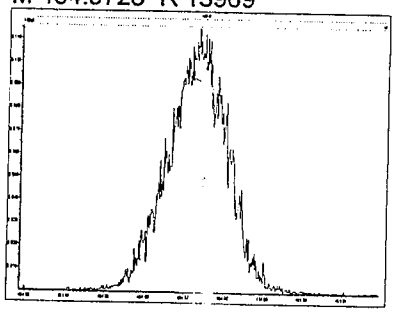
M 430.9728 R 14121



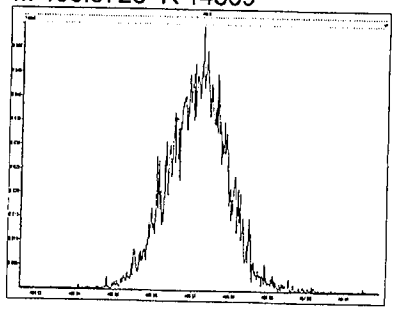
M 442.9728 R 14045



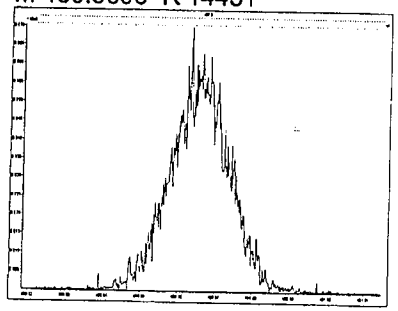
M 454.9728 R 13969



M 466.9728 R 14369



M 480.9696 R 14451



Experiment Calibration Report **MassLynx 4.1 SCN640**

File: Experiment: dioxins_db5ms.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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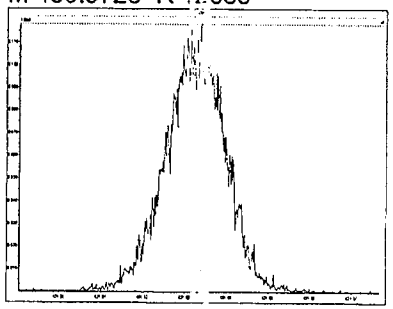
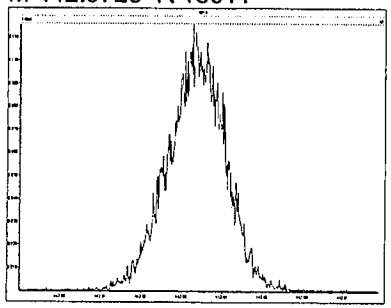
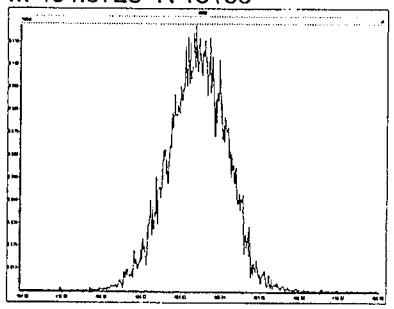
M 430.9728 R 12689



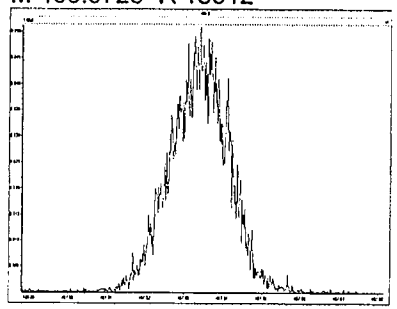
M 442.9728 R 13511



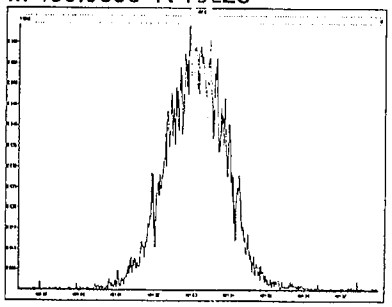
M 454.9728 R 13158



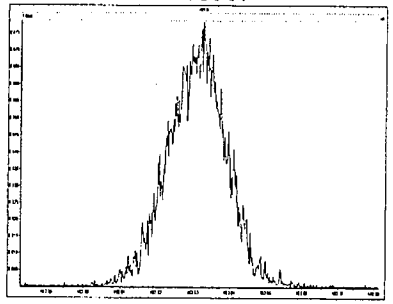
M 466.9728 R 13512



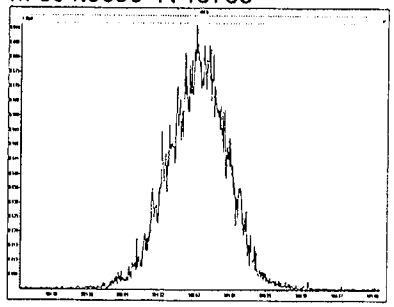
M 480.9696 R 13225



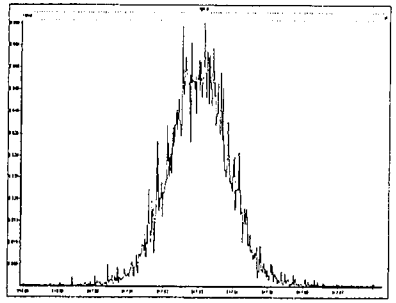
M 492.9696 R 13967



M 504.9696 R 13735



M 516.9697 R 14698



Resolution Check Report **MassLynx 4.1 SCN640**

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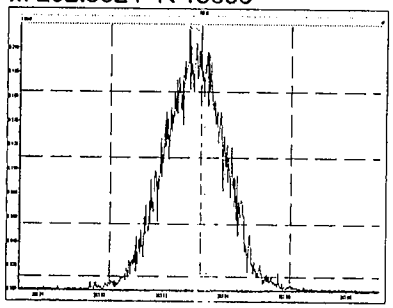
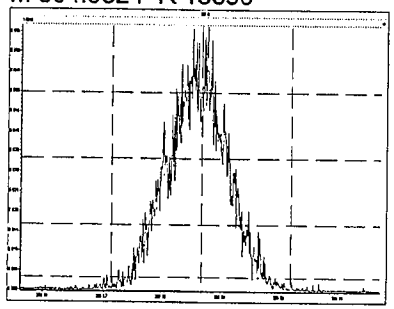
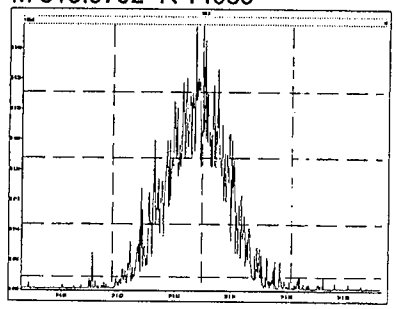
M 292.9824 R 13635



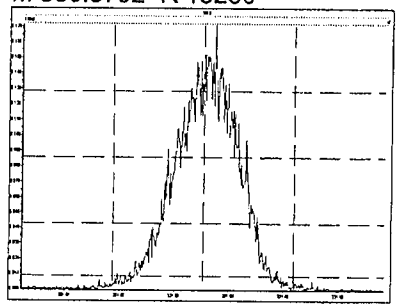
M 304.9824 R 13590



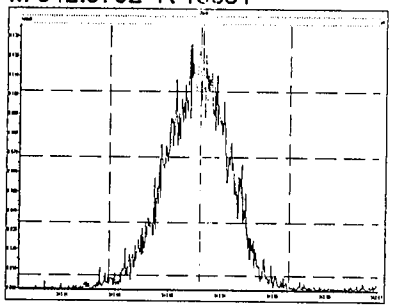
M 318.9792 R 14089



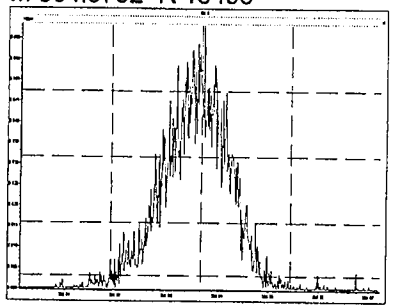
M 330.9792 R 13230



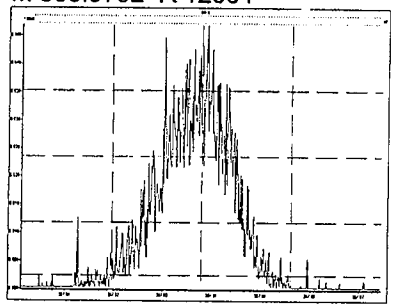
M 342.9792 R 13631



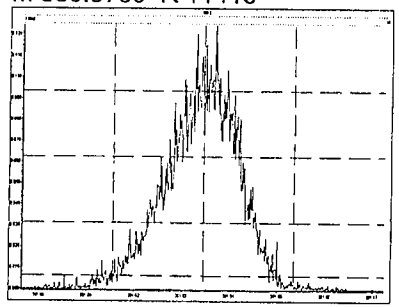
M 354.9792 R 13498



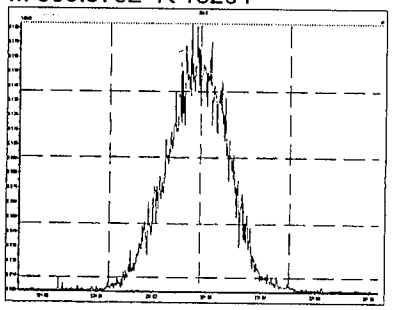
M 366.9792 R 12664



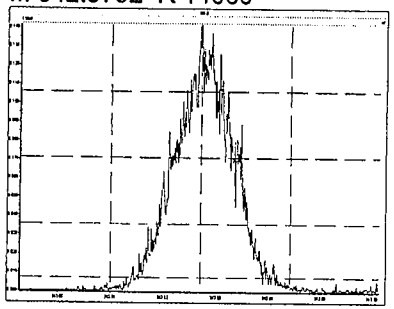
M 380.9760 R 11415



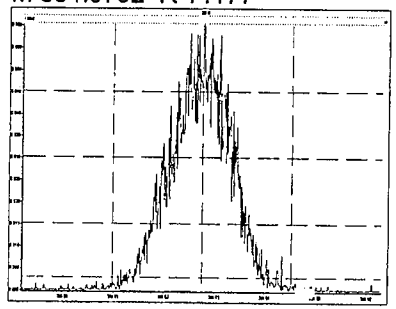
M 330.9792 R 13264



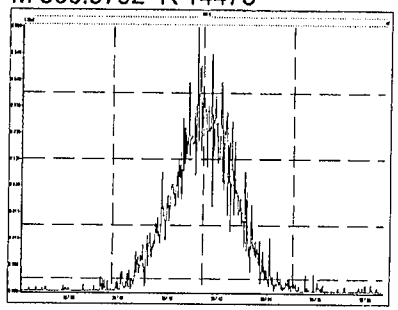
M 342.9792 R 14060



M 354.9792 R 14177



M 366.9792 R 14475



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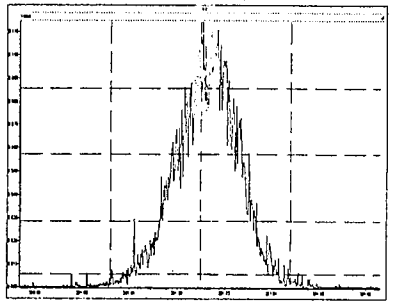
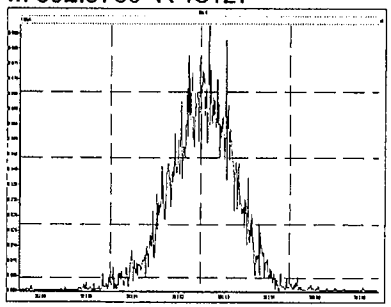
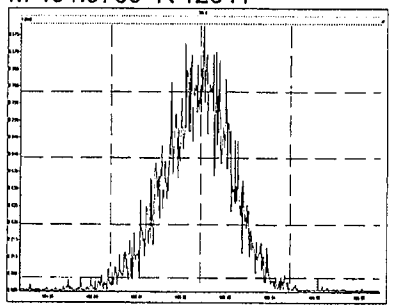
M 380.9760 R 12708



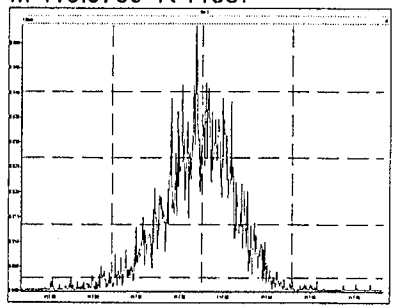
M 392.9760 R 13127



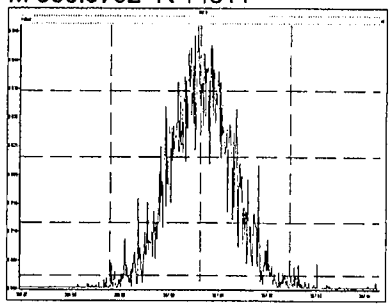
M 404.9760 R 12641



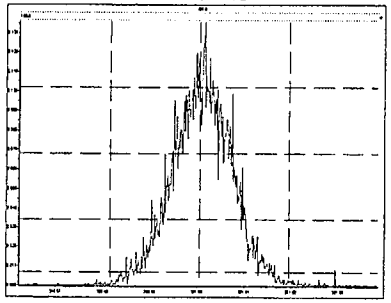
M 416.9760 R 11857



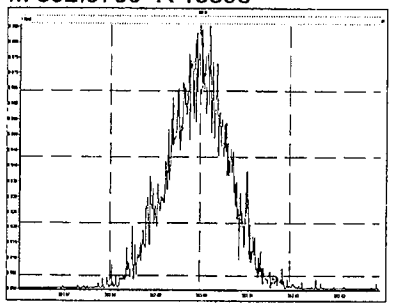
M 366.9792 R 14811



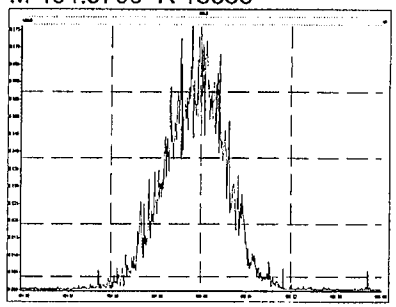
M 380.9760 R 13628



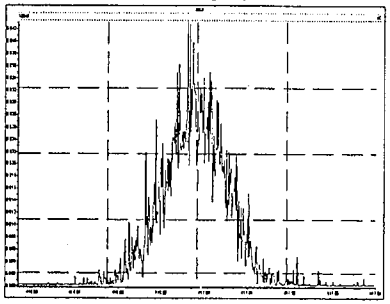
M 392.9760 R 13393



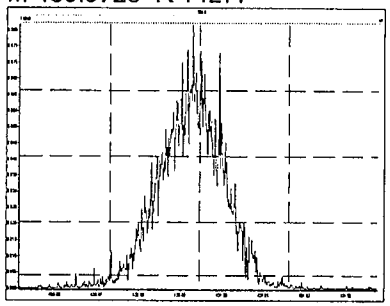
M 404.9760 R 13888



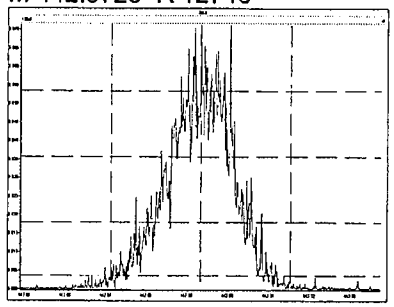
M 416.9760 R 14844



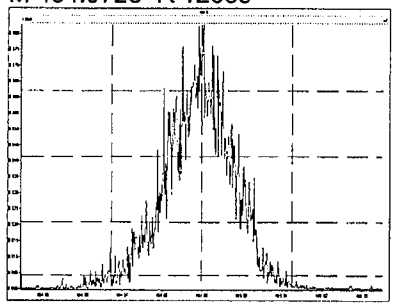
M 430.9728 R 14277



M 442.9728 R 12746



M 454.9728 R 12689



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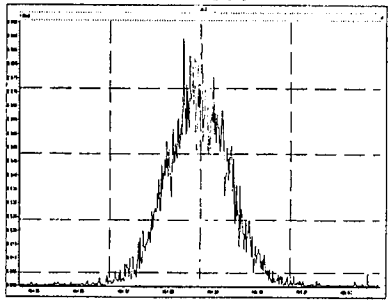
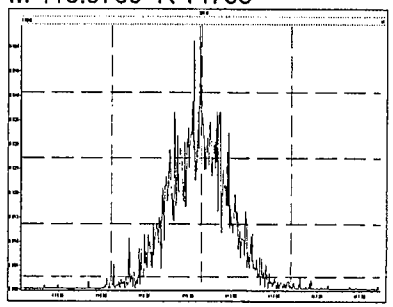
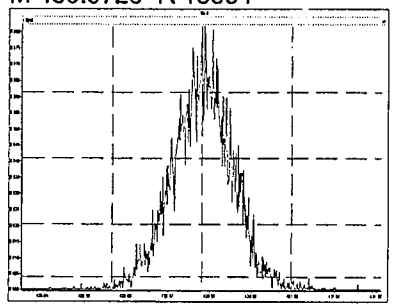
M 404.9760 R 14006



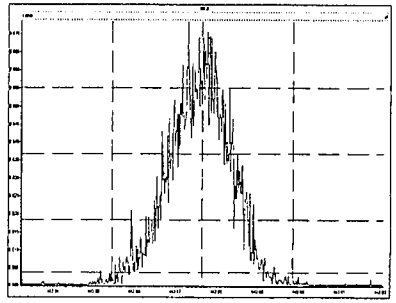
M 416.9760 R 14755



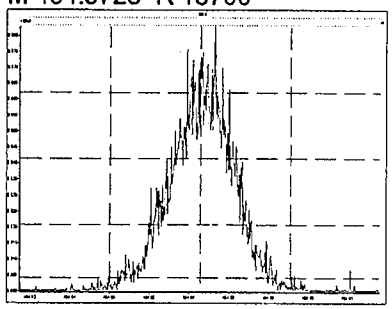
M 430.9728 R 13354



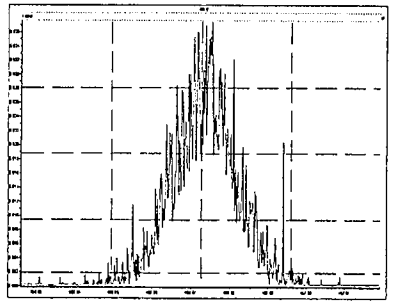
M 442.9728 R 13899



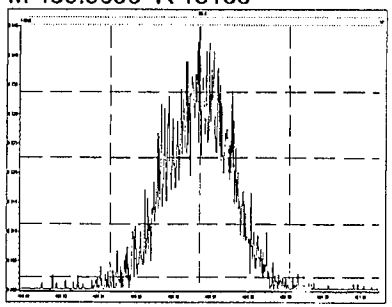
M 454.9728 R 13700



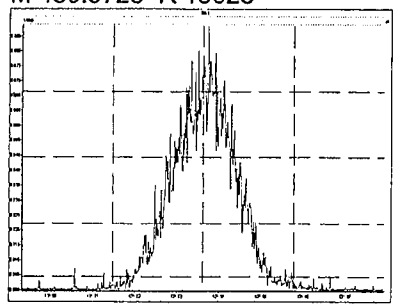
M 466.9728 R 13815



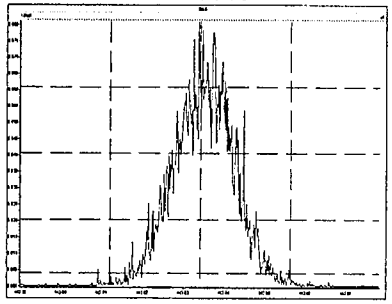
M 480.9696 R 13166



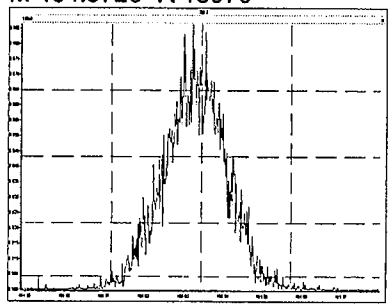
M 430.9728 R 13623



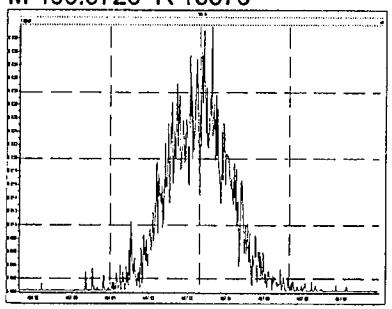
M 442.9728 R 13513



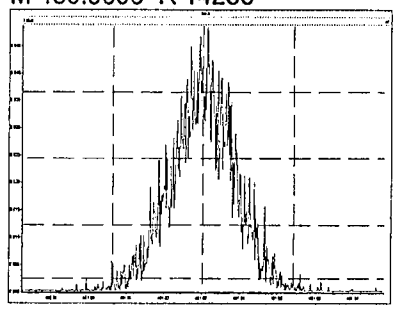
M 454.9728 R 13970



M 466.9728 R 15576



M 480.9696 R 14235



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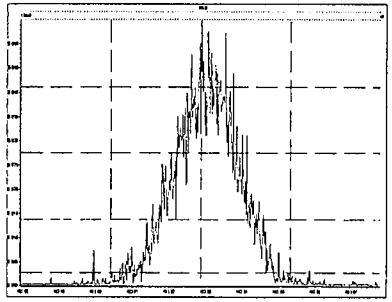
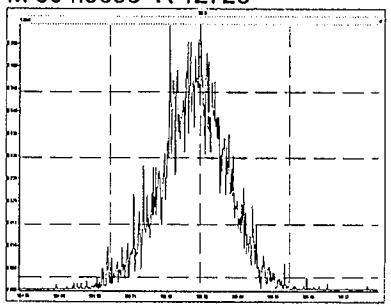
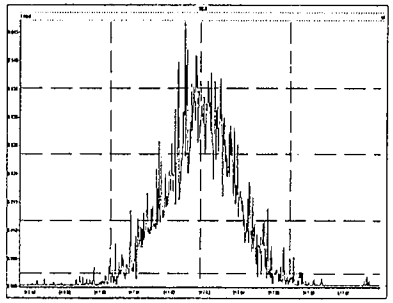
M 492.9696 R 13700



M 504.9696 R 12723



M 516.9697 R 13626



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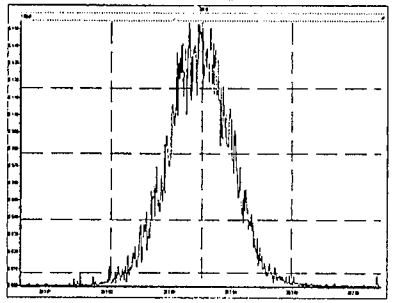
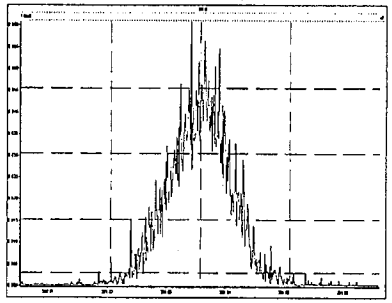
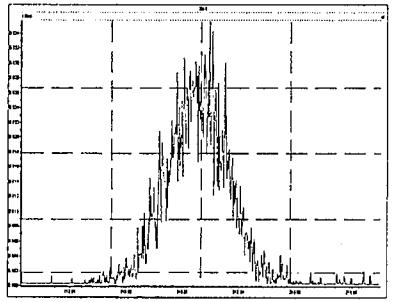
M 292.9824 R 12991



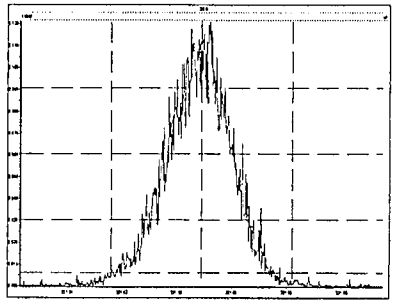
M 304.9824 R 13687



M 318.9792 R 15198



M 330.9792 R 12377



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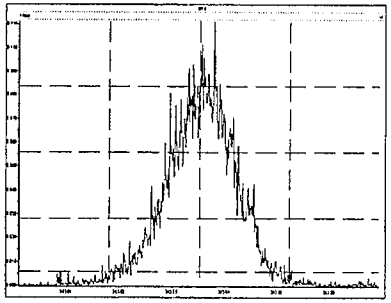

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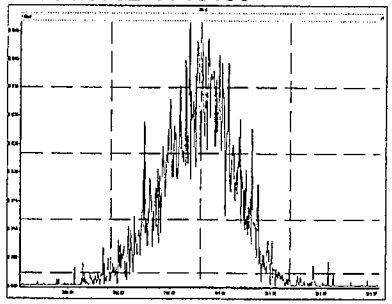

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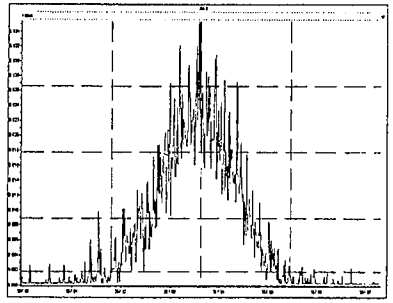
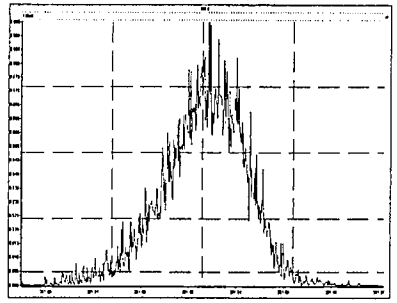


M 380.9760 R 10869



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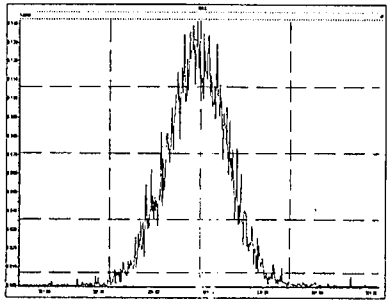

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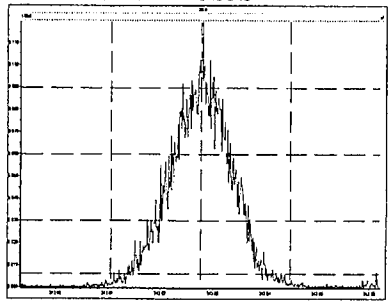

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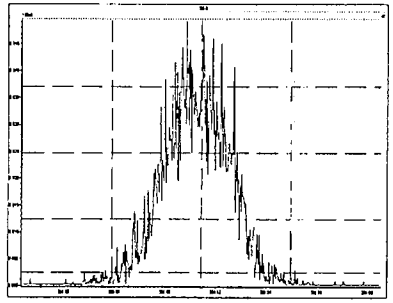

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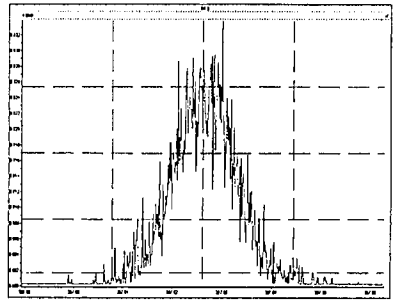

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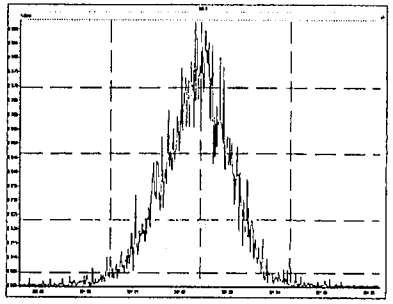
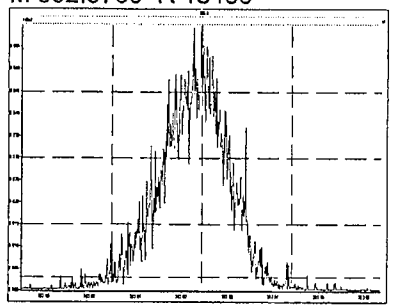


M 392.9760 R 13488



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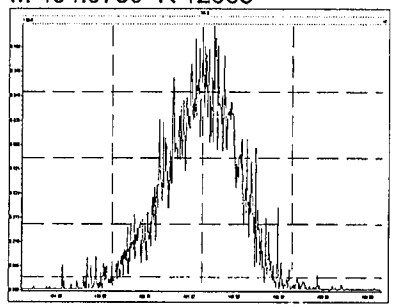

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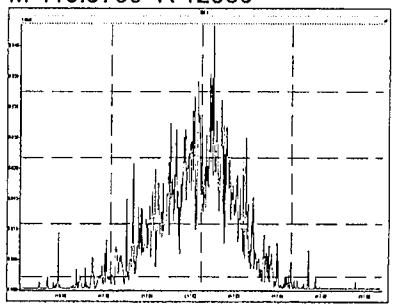

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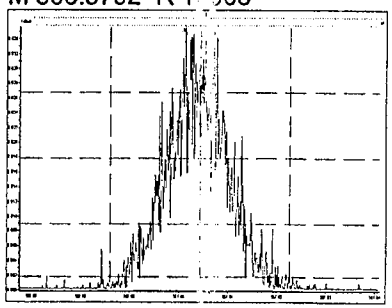
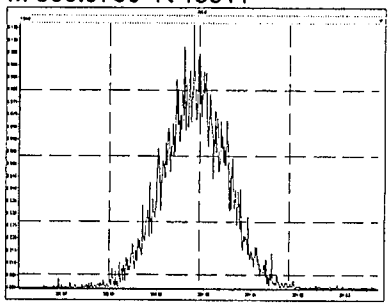
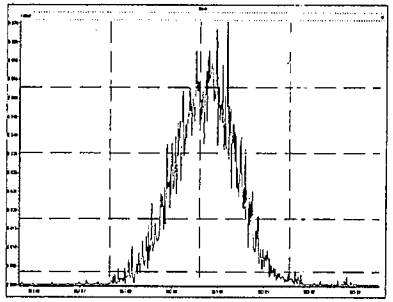


M 380.9760 R 13311



M 392.9760 R 13404



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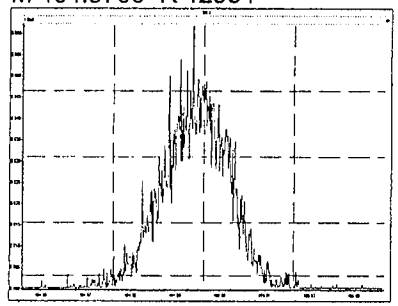

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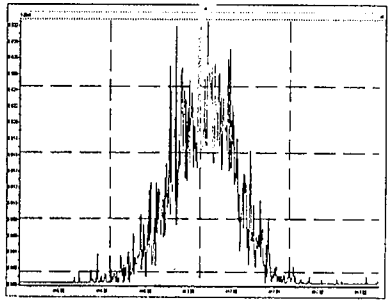
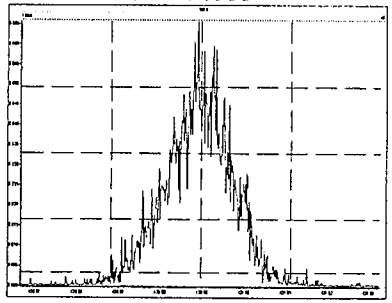
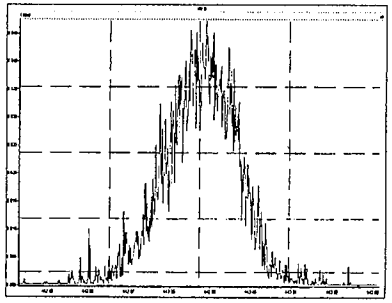


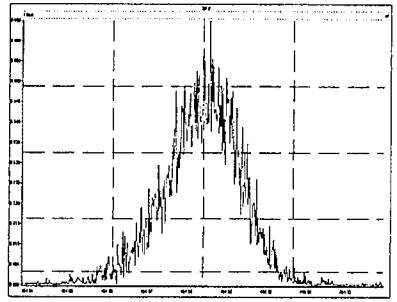
M 430.9728 R 12658



M 442.9728 R 13162



M 454.9728 R 12223



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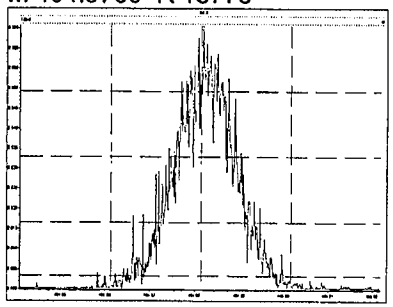
M 404.9760 R 13778



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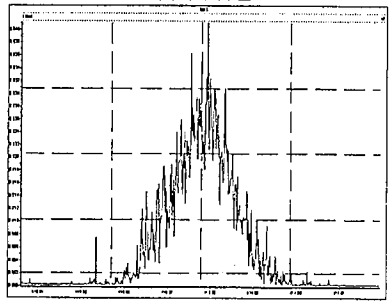

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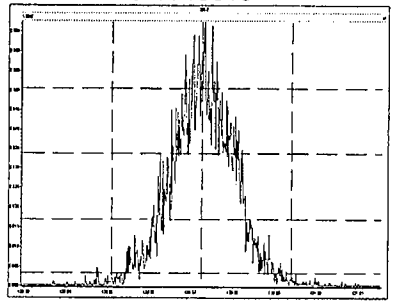

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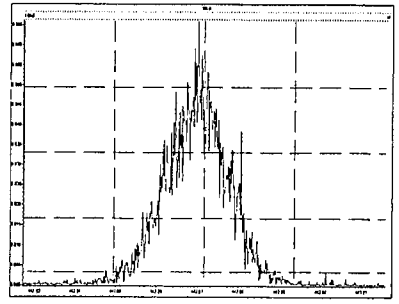

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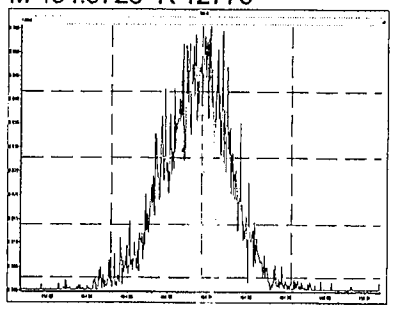
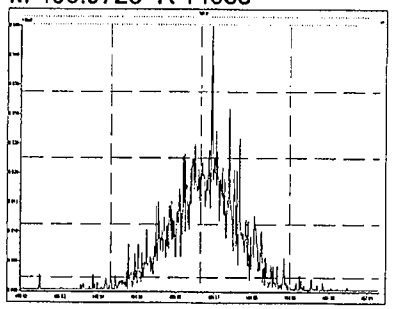
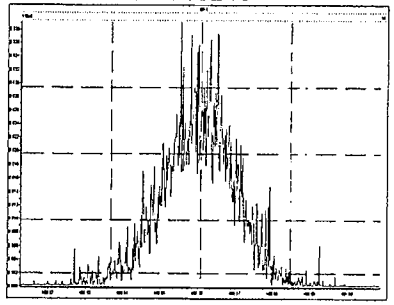


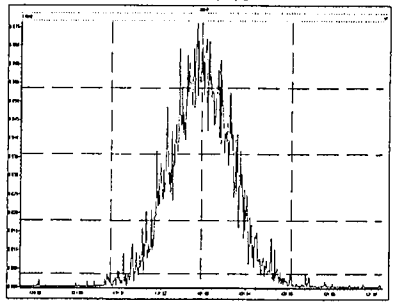
M 466.9728 R 14053



M 480.9696 R 13240



M 430.9728 R 14329



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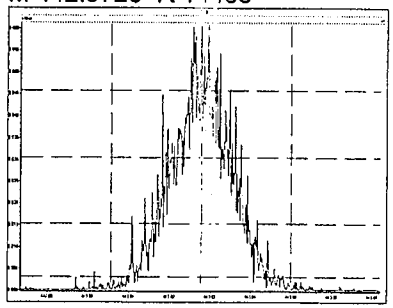

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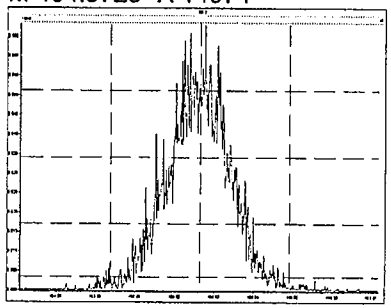

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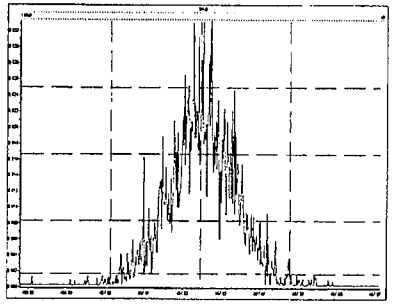

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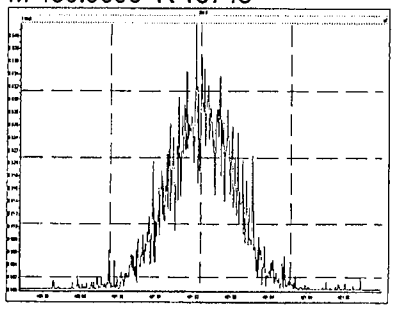

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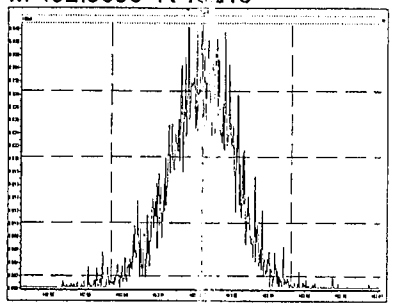

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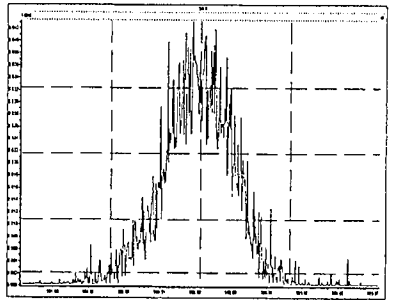

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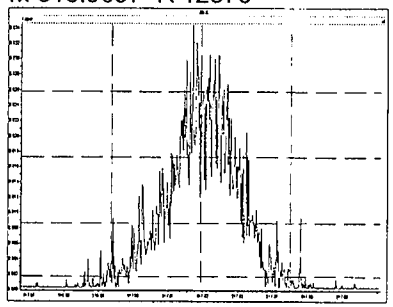

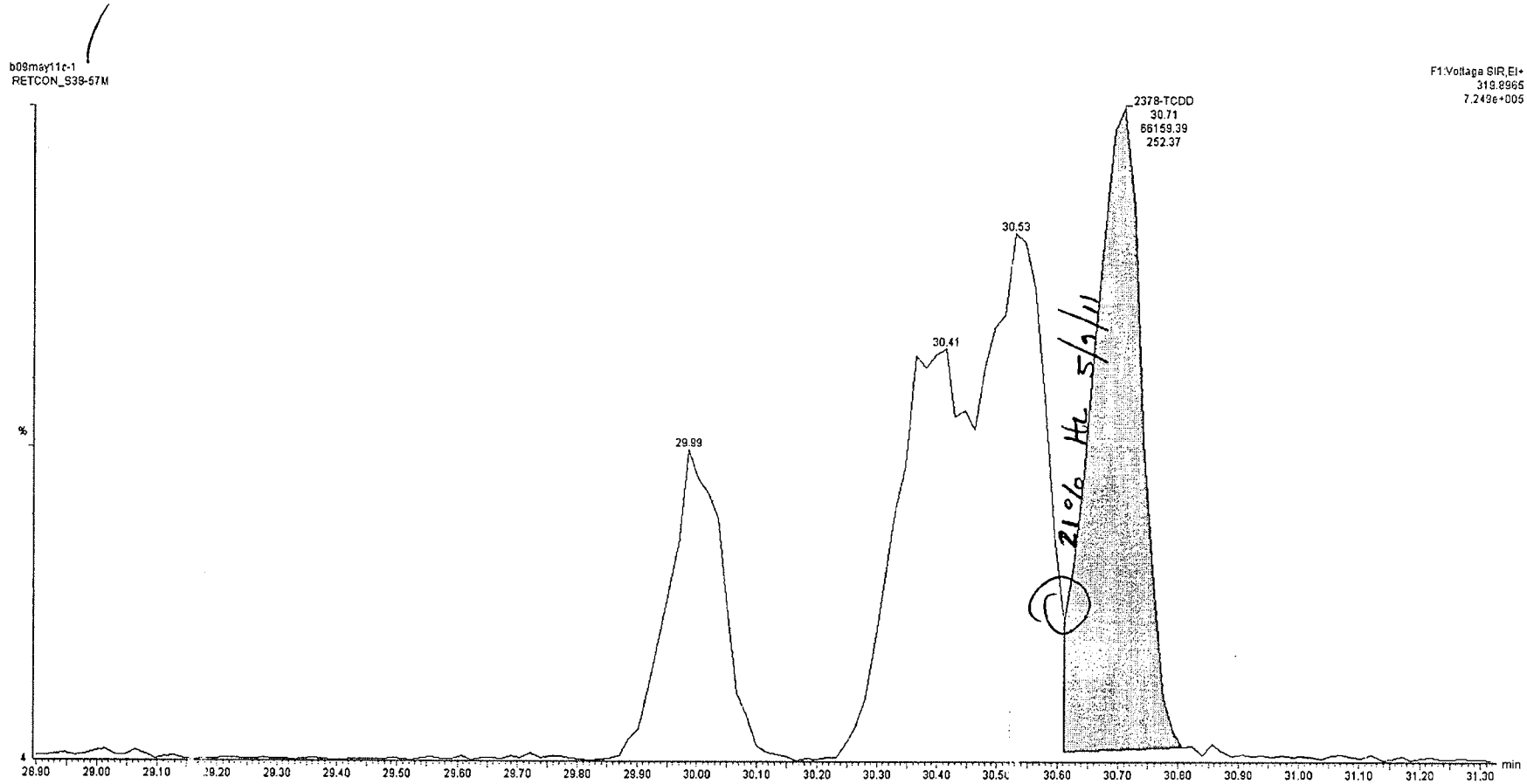
b09may11c-1
RETCON_S39-57M
F1:Voltage SIR,EI+
319.8965
7.249e+005
2378-TCDD
30.71
66159.39
252.37
30.53
30.41
29.99
%
min
28.90
29.00
29.10
29.20
29.30
29.40
29.50
29.60
29.70
29.80
29.90
30.00
30.10
30.20
30.30
30.40
30.50
30.60
30.70
30.80
30.90
31.00
31.10
31.20
31.30
21% HL 5/3/11

Quantify Sample Summary Report **MassLynx 4.1 SCN640**

Dataset: Untitled

Last Altered: 09-May-11 2:37:16 PM Eastern Daylight Time
Printed: 09-May-11 2:41:12 PM Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\DxWdmGcp.mdb 04 May 2011 08:23:35
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\m1613-010611b.cdb 06 Jan 2011 17:35:11

Name: b09may11c-1
Date: 09-May-2011
Time: 11:56:47
ID: RETCON_S38-57M
Description:
Instrument:
User: JLJ

	Name	RT
1	First TCDF	25.48
2	Last TCDF	31.53
3	First PeCDF (F1)	31.52
4	First PeCDF (F2)	32.42
5	Last PeCDF (F2)	34.26
6	First HxCDF	34.76
7	Last HxCDF	37.00
8	First HpCDF	38.44
9	Last HpCDF	40.29
10	OCDF	43.99
11	First TCDD	27.20
12	2378-TCDD	30.71
13	Last TCDD	31.45
14	First PeCDD	32.49
15	Last PeCDD	34.09
16	First HxCDD	35.17
17	Last HxCDD	36.69
18	First HpCDD	38.77
19	Last HpCDD	39.66
20	OCDD	43.72

SGS

Method Blank Summary

Blank ID: LMB for HBN 5061 [HXX/1090]
Blank Lab ID: 19553
QC for Samples:
31100958013,31100958013,31100958014,31100958014

Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.00454	0.0100	ng/L		
1,2,3,7,8-PeCDD	ND		U	0.00323	0.0500	ng/L		
1,2,3,4,7,8-HxCDD	ND		U	0.00371	0.0500	ng/L		
1,2,3,6,7,8-HxCDD	ND		U	0.00406	0.0500	ng/L		
1,2,3,7,8,9-HxCDD	**0.00486**		J	0.00170	0.0500	ng/L	36.68	1.07
1,2,3,4,6,7,8-HpCDD		0.00500	J	0.00207	0.0500	ng/L	39.66	0.72*
OCDD	**0.0123**		J	0.00440	0.100	ng/L	43.73	0.87
2,3,7,8-TCDF	ND		U	0.00456	0.0100	ng/L		
1,2,3,7,8-PeCDF		0.00478	J	0.00211	0.0500	ng/L	33.03	1.80*
2,3,4,7,8-PeCDF		0.00418	J	0.00198	0.0500	ng/L	33.63	0.97*
1,2,3,4,7,8-HxCDF		0.00284	J	0.00284	0.0500	ng/L	35.68	2.55*
1,2,3,6,7,8-HxCDF	**0.00376**		J	0.00376	0.0500	ng/L	35.79	1.30
2,3,4,6,7,8-HxCDF		0.00564	J	0.00419	0.0500	ng/L	36.25	1.03*
1,2,3,7,8,9-HxCDF	**0.00554**		J	0.00554	0.0500	ng/L	37.01	1.15
1,2,3,4,6,7,8-HpCDF	**0.00540**		J	0.00141	0.0500	ng/L	38.45	1.02
1,2,3,4,7,8,9-HpCDF	ND		U	0.00424	0.0500	ng/L		
OCDF	**0.0104**		J	0.00558	0.100	ng/L	44.01	0.89
Total TCDD	ND		U	0.00454	0.0100	ng/L		
Total TCDF	ND		U	0.00456	0.0100	ng/L		
Total PeCDD	ND		U	0.00323	0.0500	ng/L		
Total PeCDF	ND	0.00896	U	0.00211	0.0500	ng/L		
Total HxCDD	**0.00486**		J	0.00406	0.0500	ng/L		
Total HxCDF	**0.00930**	0.0178	J	0.00573	0.0500	ng/L		
Total HpCDD	ND	0.00500	U	0.00207	0.0500	ng/L		
Total HpCDF	**0.00540**		J	0.00424	0.0500	ng/L		
Labeled Standards								
13C-2378-TCDD	68.0				25.0-164	%		
13C-12378-PeCDD	81.0				25.0-181	%		
13C-123478-HxCDD	87.0				32.0-141	%		
13C-123678-HxCDD	76.0				28.0-130	%		
13C-1234678-HpCDD	88.0				23.0-140	%		
13C-OCDD	83.0				17.0-157	%		
13C-2378-TCDF	65.0				24.0-169	%		
13C-12378-PeCDF	83.0				24.0-185	%		
13C-23478-PeCDF	87.0				21.0-178	%		
13C-123478-HxCDF	90.0				26.0-152	%		
13C-123678-HxCDF	86.0				26.0-123	%		
13C-234678-HxCDF	90.0				29.0-147	%		
13C-123789-HxCDF	85.0				28.0-136	%		
13C-1234678-HpCDF	95.0				28.0-143	%		
13C-1234789-HpCDF	90.0				26.0-138	%		

Print Date: 05/11/2011

N.C. Certification # 481

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Method Blank Summary

Blank ID: LMB for HBN 5061 [HXX/1090]
Blank Lab ID: 19553
QC for Samples:
31100958013,31100958013,31100958014,31100958014

Matrix: Water

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
37Cl-2378-TCDD	67.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/09/2011 14:26**
Dilution: **1**

Prep Batch: **HXX1090**
Prep Method: **EPA 1613B**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **1000 mL**
Prep Extract Vol: **20 uL**

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Blank Spike Summary

Blank Spike ID: OPR for HBN 5061 [HXX/1090]
Blank Spike Lab ID: 19554
Date Analyzed: 05/09/2011 12:46

Spike Duplicate ID: OPRD for HBN 5061 [HXX/1090]
Spike Duplicate Lab ID: 19555
Date Analyzed: 05/09/2011 13:36
Matrix: Water

QC for Samples: 31100958013,31100958013,31100958014,31100958014

Results by **EPA 1613B**

	Blank Spike (ng/L)			Spike Duplicate (ng/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
2,3,7,8-TCDD	.2	0.192	96	.2	0.194	97	70.0-130	1.0	20.00
1,2,3,7,8-PeCDD	1	0.990	99	1	0.975	97	70.0-130	1.5	20.00
1,2,3,4,7,8-HxCDD	1	0.979	98	1	0.982	98	70.0-130	0.31	20.00
1,2,3,6,7,8-HxCDD	1	1.01	101	1	1.02	102	70.0-130	0.99	20.00
1,2,3,7,8,9-HxCDD	1	0.988	99	1	1.04	104	70.0-130	5.1	20.00
1,2,3,4,6,7,8-HpCDD	1	1.01	101	1	1.04	104	70.0-130	2.9	20.00
OCDD	2	1.96	98	2	1.99	99	70.0-130	1.5	20.00
2,3,7,8-TCDF	.2	0.228	114	.2	0.226	113	70.0-130	0.88	20.00
1,2,3,7,8-PeCDF	1	1.02	102	1	1.04	104	70.0-130	1.9	20.00
2,3,4,7,8-PeCDF	1	1.03	103	1	1.02	102	70.0-130	0.98	20.00
1,2,3,4,7,8-HxCDF	1	1.00	100	1	0.998	100	70.0-130	0.20	20.00
1,2,3,6,7,8-HxCDF	1	1.05	105	1	1.04	104	70.0-130	0.96	20.00
2,3,4,6,7,8-HxCDF	1	1.04	104	1	1.03	103	70.0-130	0.97	20.00
1,2,3,7,8,9-HxCDF	1	1.02	102	1	1.04	104	70.0-130	1.9	20.00
1,2,3,4,6,7,8-HpCDF	1	1.08	108	1	1.08	108	70.0-130	0.0	20.00
1,2,3,4,7,8,9-HpCDF	1	1.03	103	1	1.04	104	70.0-130	0.97	20.00
OCDF	2	2.07	103	2	2.04	102	70.0-130	1.5	20.00
Labeled Standards									
13C-2378-TCDD			56			78	25.0-164		
13C-12378-PeCDD			88			90	25.0-181		
13C-123478-HxCDD			94			96	32.0-141		
13C-123678-HxCDD			75			78	28.0-130		
13C-1234678-HpCDD			92			90	23.0-140		
13C-OCDD			88			86	17.0-157		
13C-2378-TCDF			47			76	24.0-169		
13C-12378-PeCDF			93			94	24.0-185		
13C-23478-PeCDF			96			98	21.0-178		
13C-123478-HxCDF			94			97	26.0-152		
13C-123678-HxCDF			88			90	26.0-123		
13C-234678-HxCDF			92			95	29.0-147		
13C-123789-HxCDF			91			92	28.0-136		
13C-1234678-HpCDF			96			95	28.0-143		
13C-1234789-HpCDF			98			97	26.0-138		
37Cl-2378-TCDD			54			78	35.0-197		

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Blank Spike Summary

Blank Spike ID: OPR for HBN 5061 [HXX/1090]
Blank Spike Lab ID: 19554
Date Analyzed: 05/09/2011 12:46

Spike Duplicate ID: OPRD for HBN 5061 [HXX/1090]
Spike Duplicate Lab ID: 19555
Date Analyzed: 05/09/2011 13:36
Matrix: Water

QC for Samples: 31100958013,31100958013,31100958014,31100958014

Results by **EPA 1613B**

	Blank Spike (%)			Spike Duplicate (%)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**

Prep Batch: **HXX1090**
Prep Method: **EPA 1613B**
Prep Date/Time: **04/28/2011 17:00**
Spike Init Wt./Vol.: **1000 mL** Extract Vol: **20 uL**
Dupe Init Wt./Vol.: **1000 mL** Extract Vol: **20 uL**

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Method Blank Summary

Blank ID: LMB for HBN 5060 [HXX/1089]
Blank Lab ID: 19548

Matrix: Soil-Solid as dry weight

QC for Samples:

31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,31100958008,31100958007,3110

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.141	0.500	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.195	2.50	pg/g		
1,2,3,4,7,8-HxCDD	ND		U	0.206	2.50	pg/g		
1,2,3,6,7,8-HxCDD	ND		U	0.205	2.50	pg/g		
1,2,3,7,8,9-HxCDD		0.348	J	0.215	2.50	pg/g	36.63	0.88*
1,2,3,4,6,7,8-HpCDD	**0.424**		J	0.218	2.50	pg/g	39.54	1.06
OCDD	**1.09**		J	0.328	5.00	pg/g	43.62	0.98
2,3,7,8-TCDF	**0.544**			0.232	0.500	pg/g	29.77	0.72
1,2,3,7,8-PeCDF	**0.396**		J	0.208	2.50	pg/g	32.99	1.45
2,3,4,7,8-PeCDF	**0.410**		J	0.190	2.50	pg/g	33.61	1.71
1,2,3,4,7,8-HxCDF	**0.358**		J	0.205	2.50	pg/g	35.63	1.39
1,2,3,6,7,8-HxCDF		0.410	J	0.192	2.50	pg/g	35.72	1.05*
2,3,4,6,7,8-HxCDF		0.354	J	0.203	2.50	pg/g	36.22	1.49*
1,2,3,7,8,9-HxCDF		0.548	J	0.282	2.50	pg/g	36.95	0.93*
1,2,3,4,6,7,8-HpCDF	**0.462**		J	0.129	2.50	pg/g	38.37	1.07
1,2,3,4,7,8,9-HpCDF	ND		U	0.212	2.50	pg/g		
OCDF		0.930	J	0.306	5.00	pg/g	43.93	0.73*
Total TCDD	ND		U	0.141	0.500	pg/g		
Total TCDF	**0.544**	0.726		0.232	0.500	pg/g		
Total PeCDD	ND		U	0.195	2.50	pg/g		
Total PeCDF	**0.806**		J	0.208	2.50	pg/g		
Total HxCDD	ND	0.348	U	0.215	2.50	pg/g		
Total HxCDF	**0.358**	1.67	J	0.282	2.50	pg/g		
Total HpCDD	**0.424**		J	0.218	2.50	pg/g		
Total HpCDF	**0.462**		J	0.212	2.50	pg/g		

Labeled Standards

13C-2378-TCDD	65.0	25.0-164	%
13C-12378-PeCDD	79.0	25.0-181	%
13C-123478-HxCDD	91.0	32.0-141	%
13C-123678-HxCDD	89.0	28.0-130	%
13C-1234678-HpCDD	91.0	23.0-140	%
13C-OCDD	76.0	17.0-157	%
13C-2378-TCDF	71.0	24.0-169	%
13C-12378-PeCDF	82.0	24.0-185	%
13C-23478-PeCDF	92.0	21.0-178	%
13C-123478-HxCDF	99.0	26.0-152	%
13C-123678-HxCDF	97.0	26.0-123	%
13C-234678-HxCDF	102	29.0-147	%
13C-123789-HxCDF	91.0	28.0-136	%
13C-1234678-HpCDF	102	28.0-143	%
13C-1234789-HpCDF	91.0	26.0-138	%

Print Date: 05/11/2011

N.C. Certification # 481

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Method Blank Summary

Blank ID: LMB for HBN 5060 [HXX/1089]
Matrix: Soil-Solid as dry weight
Blank Lab ID: 19548
QC for Samples:
31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,31100958008,31100958007,3110

Results by EPA 1613B

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
37Cl-2378-TCDD	68.0				35.0-197	%		

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**
Analytical Date/Time: **05/04/2011 16:08**
Dilution: **1**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Prep Initial Wt./Vol.: **10 g**
Prep Extract Vol: **20 uL**

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Blank Spike Summary

Blank Spike ID: OPR for HBN 5060 [HXX/1089]
Blank Spike Lab ID: 19549
Date Analyzed: 05/04/2011 14:03

Spike Duplicate ID: OPRD for HBN 5060 [HXX/1089]
Spike Duplicate Lab ID: 19550
Date Analyzed: 05/04/2011 14:54
Matrix: Soil-Solid as dry weight

QC for Samples: 31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,

Results by **EPA 1613B**

	Blank Spike (pg/g)			Spike Duplicate (pg/g)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
2,3,7,8-TCDD	20	19.5	97	20	19.4	97	70.0-130	0.51	20.00
1,2,3,7,8-PeCDD	100	99.2	99	100	102	102	70.0-130	2.8	20.00
1,2,3,4,7,8-HxCDD	100	98.8	99	100	98.7	99	70.0-130	0.10	20.00
1,2,3,6,7,8-HxCDD	100	103	103	100	105	105	70.0-130	1.9	20.00
1,2,3,7,8,9-HxCDD	100	105	105	100	104	104	70.0-130	0.96	20.00
1,2,3,4,6,7,8-HpCDD	100	102	102	100	102	102	70.0-130	0.0	20.00
OCDD	200	202	101	200	211	105	70.0-130	4.4	20.00
2,3,7,8-TCDF	20	23.4	117	20	24.1	120	70.0-130	2.9	20.00
1,2,3,7,8-PeCDF	100	108	108	100	107	107	70.0-130	0.93	20.00
2,3,4,7,8-PeCDF	100	105	105	100	106	106	70.0-130	0.95	20.00
1,2,3,4,7,8-HxCDF	100	100	100	100	102	102	70.0-130	2.0	20.00
1,2,3,6,7,8-HxCDF	100	108	108	100	107	107	70.0-130	0.93	20.00
2,3,4,6,7,8-HxCDF	100	105	105	100	106	106	70.0-130	0.95	20.00
1,2,3,7,8,9-HxCDF	100	108	108	100	106	106	70.0-130	1.9	20.00
1,2,3,4,6,7,8-HpCDF	100	113	113	100	112	112	70.0-130	0.89	20.00
1,2,3,4,7,8,9-HpCDF	100	106	106	100	104	104	70.0-130	1.9	20.00
OCDF	200	210	105	200	227	114	70.0-130	7.8	20.00
Labeled Standards									
13C-2378-TCDD			71			74	25.0-164		
13C-12378-PeCDD			85			83	25.0-181		
13C-123478-HxCDD			90			94	32.0-141		
13C-123678-HxCDD			92			96	28.0-130		
13C-1234678-HpCDD			87			93	23.0-140		
13C-OCDD			74			75	17.0-157		
13C-2378-TCDF			76			77	24.0-169		
13C-12378-PeCDF			84			88	24.0-185		
13C-23478-PeCDF			95			95	21.0-178		
13C-123478-HxCDF			97			103	26.0-152		
13C-123678-HxCDF			99			105	26.0-123		
13C-234678-HxCDF			102			106	29.0-147		
13C-123789-HxCDF			90			94	28.0-136		
13C-1234678-HpCDF			100			105	28.0-143		
13C-1234789-HpCDF			90			96	26.0-138		
37Cl-2378-TCDD			80			80	35.0-197		

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Blank Spike Summary

Blank Spike ID: OPR for HBN 5060 [HXX/1089]
Blank Spike Lab ID: 19549
Date Analyzed: 05/04/2011 14:03

Spike Duplicate ID: OPRD for HBN 5060 [HXX/1089]
Spike Duplicate Lab ID: 19550
Date Analyzed: 05/04/2011 14:54
Matrix: Soil-Solid as dry weight

QC for Samples: 31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,

Results by **EPA 1613B**

Parameter	Blank Spike (%) Spike	Blank Spike (%) Result	Blank Spike (%) Rec (%)	Spike Duplicate (%) Spike	Spike Duplicate (%) Result	Spike Duplicate (%) Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **HRD1100**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **JWP**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
Spike Init Wt./Vol.: **10 g** Extract Vol: **20 uL**
Dupe Init Wt./Vol.: **10 g** Extract Vol: **20 uL**

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Matrix Spike Summary

Original Sample ID: 31100958009 (OU4-SD-M08-111B) Analysis Date: 05/09/2011 17:56
MS Sample ID: 31100958010 Analysis Date: 05/09/2011 18:46
MSD Sample ID: 31100958011 Analysis Date: 05/09/2011 19:36
Matrix: Soil-Solid as dry weight

QC for Samples: 31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,

Results by **EPA 1613B**

		Matrix Spike (pg/g)			Spike Duplicate (pg/g)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
2,3,7,8-TCDD	ND	9.43	12.3	91	9.75	14.4	101	75.0-125	14	20.00
1,2,3,7,8-PeCDD	ND	47.2	64.5	95	48.7	73.3	102	75.0-125	11	20.00
1,2,3,4,7,8-HxCDD	ND	47.2	67.7	100	48.7	72.9	102	75.0-125	5.0	20.00
1,2,3,6,7,8-HxCDD	ND	47.2	66.7	98	48.7	75.4	105	75.0-125	10	20.00
1,2,3,7,8,9-HxCDD	ND	47.2	71.0	105	48.7	77.1	108	75.0-125	5.9	20.00
1,2,3,4,6,7,8-HpCDD	15.7	47.2	81.3	96	48.7	92.2	106	75.0-125	10	20.00
OCDD	117	94.3	230	82	97.5	282	111	75.0-125	18	20.00
2,3,7,8-TCDF	0.869	9.43	15.4	107	9.75	17.6	117	75.0-125	11	20.00
1,2,3,7,8-PeCDF	ND	47.2	67.2	99	48.7	75.7	106	75.0-125	9.6	20.00
2,3,4,7,8-PeCDF	0.683	47.2	68.3	101	48.7	77.5	108	75.0-125	10	20.00
1,2,3,4,7,8-HxCDF	0.490	47.2	66.1	98	48.7	75.2	105	75.0-125	11	20.00
1,2,3,6,7,8-HxCDF	0.503	47.2	68.4	101	48.7	79.1	110	75.0-125	12	20.00
2,3,4,6,7,8-HxCDF	0.630	47.2	68.5	101	48.7	78.1	109	75.0-125	11	20.00
1,2,3,7,8,9-HxCDF	ND	47.2	67.1	99	48.7	76.7	107	75.0-125	11	20.00
1,2,3,4,6,7,8-HpCDF	5.28	47.2	73.4	100	48.7	84.6	110	75.0-125	12	20.00
1,2,3,4,7,8,9-HpCDF	ND	47.2	66.9	99	48.7	80.8	113	75.0-125	17	20.00
OCDF	7.99	94.3	139	97	97.5	162	107	75.0-125	12	20.00

Surrogates

13C-2378-TCDD	91	89	25.0-164
13C-12378-PeCDD	97	91	25.0-181
13C-123478-HxCDD	104	92	32.0-141
13C-123678-HxCDD	85	78	28.0-130
13C-1234678-HpCDD	103	94	23.0-140
13C-OCDD	100	87	17.0-157
13C-2378-TCDF	97	94	24.0-169
13C-12378-PeCDF	104	98	24.0-185
13C-23478-PeCDF	110	104	21.0-178
13C-123478-HxCDF	117	105	26.0-152
13C-123678-HxCDF	104	96	26.0-123
13C-234678-HxCDF	109	97	29.0-147
13C-123789-HxCDF	111	102	28.0-136
13C-1234678-HpCDF	115	103	28.0-143
13C-1234789-HpCDF	111	96	26.0-138
37Cl-2378-TCDD	93	96	35.0-197

SGS

Matrix Spike Summary

Original Sample ID: 31100958009 (OU4-SD-M08-111B) Analysis Date: 05/09/2011 17:56
MS Sample ID: 31100958010 Analysis Date: 05/09/2011 18:46
MSD Sample ID: 31100958011 Analysis Date: 05/09/2011 19:36
Matrix: Soil-Solid as dry weight

QC for Samples: 31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,

Results by **EPA 1613B**

Parameter	Sample	Matrix Spike (%) Spike	Result	Rec (%)	Spike Duplicate (%) Spike	Result	Rec (%)	CL	RPD (%)	RPD CL

Batch Information

Analytical Batch: **HRD1101**
Analytical Method: **EPA 1613B**
Instrument: **HRMS2**
Analyst: **KAS**

Prep Batch: **HXX1089**
Prep Method: **EPA 1613 PREP S/D/T**
Prep Date/Time: **04/28/2011 17:00**
MS Init Wt./Vol.: **21.2 g** Extract Vol.: **20 uL**
MSD Init Wt./Vol.: **20.52 g** Extract Vol.: **20 uL**

SGS North America Inc. 5500 Business Drive, Wilmington, NC 28405
t 910.350.1903 f 910.350.1557 www.us.sgs.com

SGS North America, Inc.

Instrument: HRMS2

Data File	Sample ID	An alyst	Acquisition Date/Time	Inj.Vol
b03nov10a-1	CS0.25_S37 -203D	JLJ	2010-11-03 14:15:33	1 uL
b03nov10a-2	CS2_S37 -203G	JLJ	2010-11-03 14:47:58	1 uL
b03nov10a-3	CS3_S36 -163U	JLJ	2010-11-03 15:16:10	1 uL
b03nov10a-4	CS4_S37 -203J	JLJ	2010-11-03 15:48:48	1 uL
b03nov10a-5	CS5_S37 -203K	JLJ	2010-11-03 16:21:26	1 uL

mcf-1103109

m1613dw-1103109

for the DB-225.

Confirm

2,3,7,8-TCDF CAL.

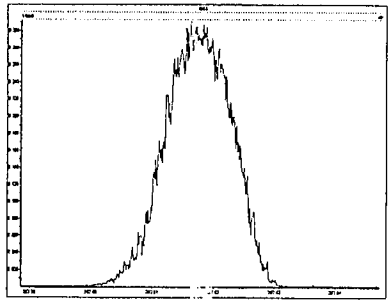
11/04/10

Experiment Calibration Report **MassLynx 4.1 SCN640**

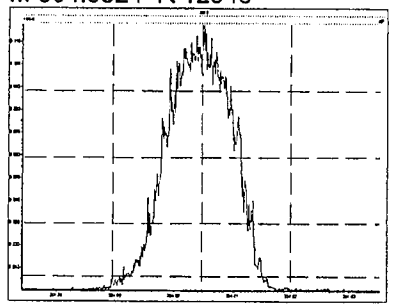
File: Experiment: tcdd_tcdf225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 03, 2010 14:15:14 Eastern Daylight Time

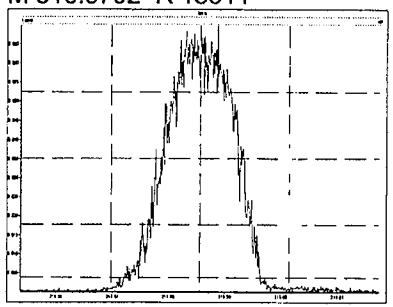
M 292.9824 R 11959



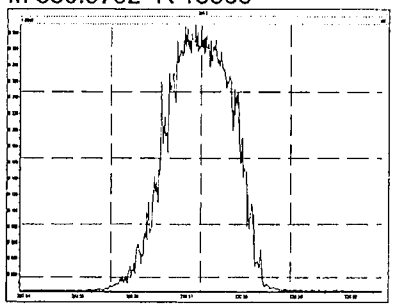
M 304.9824 R 12948



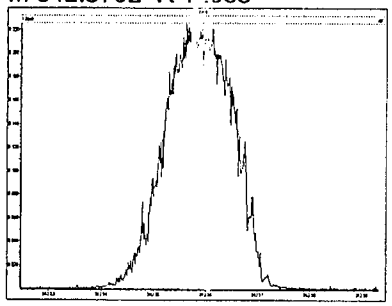
M 318.9792 R 13811



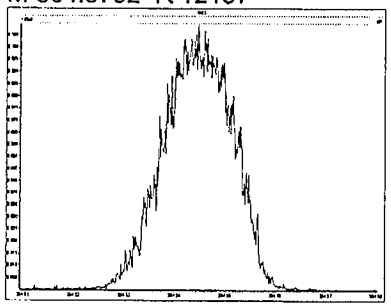
M 330.9792 R 13365



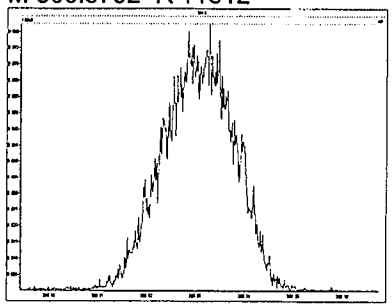
M 342.9792 R 12953



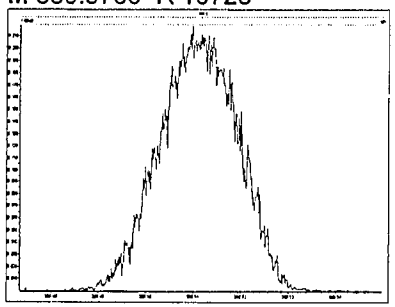
M 354.9792 R 12197



M 366.9792 R 11312

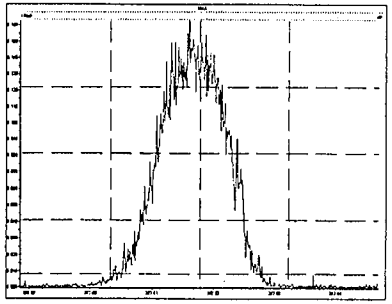


M 380.9760 R 10728

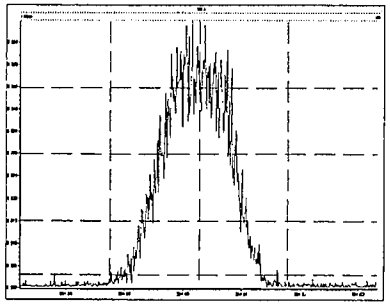


Printed: Wednesday, November 03, 2010 16:55:52 Eastern Daylight Time

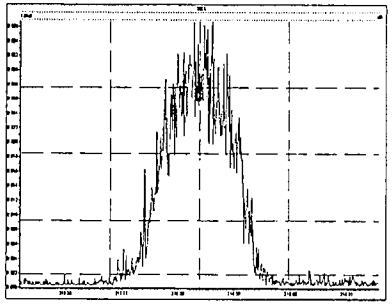
M 292.9824 R 12820



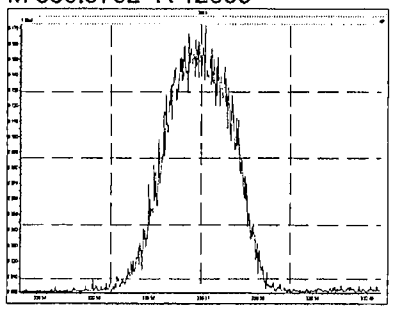
M 304.9824 R 13661



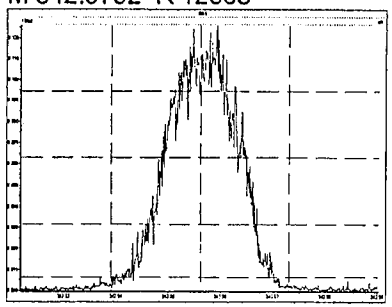
M 318.9792 R 13450



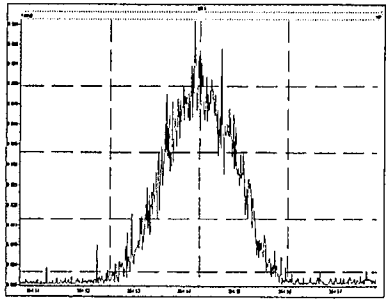
M 330.9792 R 12855



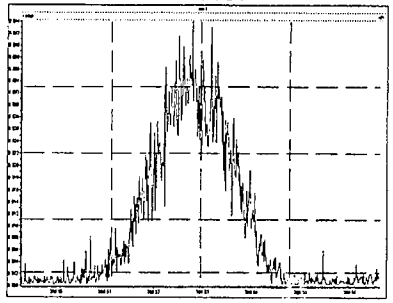
M 342.9792 R 12565



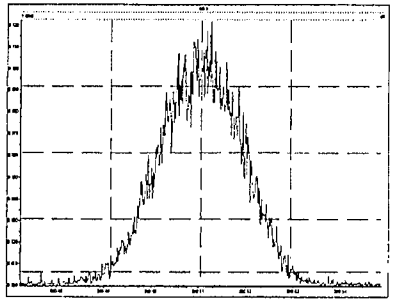
M 354.9792 R 12316



M 366.9792 R 11137



M 380.9760 R 10061



ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.qld

Method: C:\MassLynx\Default.pro\Methdb\mTCDF_confirms.mdb 02 Nov 2010 09:22:17
Calibration: 03 Nov 2010 17:19:51

Compound name: 2378-TCDF
Response Factor: 1.12302
RRF SD: 0.0538454, Relative SD: 4.79471
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

#-Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
1 b03nov10a-1	CS0.25_S37-203D	1.93e3	8.35e2	19.71	0.25	1.208	25744	2050	12.6	03-Nov-10	14:15:33	MM
2 b03nov10a-2	CS2_S37-203G	1.45e4	6.50e3	19.74	2.00	1.139	180297	1850	97.4	03-Nov-10	14:47:58	bb
3 b03nov10a-3	CS3_S36-163U	5.47e4	2.42e4	19.74	10.00	1.110	682809	2339	291.9	03-Nov-10	15:16:10	bb
4 b03nov10a-4	CS4_S37-203J	2.81e5	1.22e5	19.74	40.00	1.077	3656755	2101	1740.9	03-Nov-10	15:48:48	bb
5 b03nov10a-5	CS5_S37-203K	1.36e6	5.82e5	19.74	200.00	1.081	17312980	2305	7511.8	03-Nov-10	16:21:26	bb

Compound name: ES:13C-2378-TCDF
Response Factor: 1.35774
RRF SD: 0.024842, Relative SD: 1.82966
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

#-Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
1 b03nov10a-1	CS0.25_S37-203D	6.38e5	2.80e5	19.71	100.00	1.345	8130423	4365	1862.6	03-Nov-10	14:15:33	bb
2 b03nov10a-2	CS2_S37-203G	6.36e5	2.79e5	19.72	100.00	1.353	8087265	3646	2217.9	03-Nov-10	14:47:58	bs
3 b03nov10a-3	CS3_S36-163U	4.93e5	2.17e5	19.72	100.00	1.332	6277612	3647	1721.2	03-Nov-10	15:16:10	bb
4 b03nov10a-4	CS4_S37-203J	6.53e5	2.86e5	19.72	100.00	1.361	8394260	3411	2460.7	03-Nov-10	15:48:48	bs
5 b03nov10a-5	CS5_S37-203K	6.31e5	2.78e5	19.72	100.00	1.398	8116409	3711	2187.1	03-Nov-10	16:21:26	bb

Compound name: JS:13C-1234-TCDD
Response Factor: 4490.84
RRF SD: 454.421, Relative SD: 10.1188
Response type: External Std, Area
Curve type: RF

#-Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
1 b03nov10a-1	CS0.25_S37-203D	4.74e5	2.12e5	19.20	100.00	4742.385	5980658	4182	1429.9	03-Nov-10	14:15:33	db
2 b03nov10a-2	CS2_S37-203G	4.70e5	2.07e5	19.21	100.00	4698.511	5891975	3914	1505.3	03-Nov-10	14:47:58	db
3 b03nov10a-3	CS3_S36-163U	3.70e5	1.63e5	19.21	100.00	3700.133	4753217	3649	1302.7	03-Nov-10	15:16:10	db
4 b03nov10a-4	CS4_S37-203J	4.80e5	2.12e5	19.21	100.00	4796.994	6202667	3834	1617.9	03-Nov-10	15:48:48	db
5 b03nov10a-5	CS5_S37-203K	4.52e5	1.98e5	19.22	100.00	4516.190	5492039	3792	1448.1	03-Nov-10	16:21:26	db

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.qld

Method: C:\MassLynx\Default.pro\Methdb\mTCDF_confirms.mdb 02 Nov 2010 09:22:17
Calibration: 03 Nov 2010 17:19:51

Name: b03nov10a-1, ID: C0.25_S37-203D, Date: 03-Nov-2010, Time: 14:15:33 0.25pg/µl

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	1.928e3	8.346e2	1.093e3	0.76	NO	19.71	7.6	0.269	1.208		
2	2	ES:13C-2378-TCDF	6.381e5	2.797e5	3.584e5	0.78	NO	19.71	-0.9	99.098	1.345		
3	3	JS:13C-1234-TCDD	4.742e5	2.116e5	2.626e5	0.81	NO	19.20	5.6	105.601	4742.3...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{TCDF RRF} = \frac{8.346e^2 + 1.093e^3}{2.797e5 + 3.584e5}\left(\frac{100pg/\mu l}{0.25pg/\mu l}\right) = 1.208$$

TMC 11-4-10

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.qld

Method: C:\MassLynx\Default.pro\Methdb\mTCDF_confirms.mdb 02 Nov 2010 09:22:17
Calibration: 03 Nov 2010 17:19:51

2pg/µl

Name: b03nov10a-2, ID: C52_S37-203G, Date: 03-Nov-2010, Time: 14:47:58

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	1.448e4	6.501e3	7.976e3	0.82	NO	19.74	1.4	2.028	1.139		
2	2	ES:13C-2378-TCDF	6.357e5	2.786e5	3.572e5	0.78	NO	19.72	-0.3	99.655	1.353		
3	3	JS:13C-1234-TCDD	4.699e5	2.073e5	2.625e5	0.79	NO	19.21	4.6	104.624	4698.5...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.qld

Method: C:\MassLynx\Default.pro\Methdb\mTCDF_confirms.mdb 02 Nov 2010 09:22:17
Calibration: 03 Nov 2010 17:19:51

Name: b03nov10a-3, ID: CS3_S36-163U, Date: 03-Nov-2010, Time: 15:16:10

10pg/µl

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	5.470e4	2.419e4	3.051e4	0.79	NO	19.74	-1.1	9.886	1.110		
2	2	ES:13C-2378-TCDF	4.927e5	2.174e5	2.754e5	0.79	NO	19.72	-1.9	98.076	1.332		
3	3	JS:13C-1234-TCDD	3.700e5	1.634e5	2.066e5	0.79	NO	19.21	-17.6	82.393	3700.1...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{ES-TCDF RRF} = \frac{2.174e5 + 2.754e5}{1.634e5 + 2.066e5}\left(\frac{100pg/\mu l}{100pg/\mu l}\right) = 1.332$$

TM 11-4-10

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.qld

Method: C:\MassLynx\Default.pro\Methdb\mTCDF_confirms.mdb 02 Nov 2010 09:22:17
Calibration: 03 Nov 2010 17:19:51

40pg/ml

Name: b03nov10a-4, ID: CS4_S37-203J, Date: 03-Nov-2010, Time: 15:48:48

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	2.813e5	1.225e5	1.588e5	0.77	NO	19.74	-4.1	38.372	1.077		
2	2	ES:13C-2378-TCDF	6.527e5	2.859e5	3.668e5	0.78	NO	19.72	0.2	100.219	1.361		
3	3	JS:13C-1234-TCDD	4.797e5	2.119e5	2.678e5	0.79	NO	19.21	6.8	106.817	4796.9...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.qld

Method: C:\MassLynx\Default.pro\Methdb\mTCDF_confirms.mdb 02 Nov 2010 09:22:17
Calibration: 03 Nov 2010 17:19:51

Name: b03nov10a-5, ID: CS5_S37-203K, Date: 03-Nov-2010, Time: 16:21:26

200pg/ul

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	1.364e6	5.819e5	7.823e5	0.74	NO	19.74	-3.8	192.440	1.081		
2	2	ES:13C-2378-TCDF	6.313e5	2.782e5	3.531e5	0.79	NO	19.72	3.0	102.951	1.398		
3	3	JS:13C-1234-TCDD	4.516e5	1.982e5	2.534e5	0.78	NO	19.22	0.6	100.564	4516.1...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{TCDF RRF} = \frac{5.819e5 + 7.823e5}{2.782e5 + 3.531e5}\left(\frac{100pg/ul}{200pg/ul}\right) = 1.080$$

TM 11-4-10

SGS North America, Inc.

2,3,7,8-TCDF Confirm Analyses

Instrument: HRMS2

Data File	Sample ID	An alyst	Acquisition Date/Time	Inj.Vol
b10may11b-1	RETCON_S38 -57M	JHL	2011-05-10 12:10:09	1 uL
b10may11b-2	db225 cpm	JHL	2011 -05-10 12:39:48	1 uL
b10may11b-3	Solvent blank	JHL	2011 -05-10 13:12:27	1 uL
b10may11b-4	31100958003	JLJ	2011 -05-10 13:44:34	1 uL
b10may11b-5	31100958004	JLJ	2011 -05-10 14:16:33	1 uL
b10may11b-6	31100958005	JLJ	2011 -05-10 14:48:37	1 uL
b10may11b-7	31100958007	JLJ	2011 -05-10 15:20:42	1 uL
b10may11b-8	Solvent blank	JHL	2011 -05-10 16:10:31	1 uL

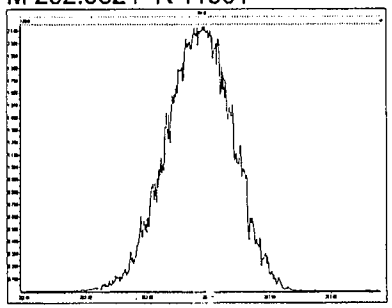
TM 5-11-11

Experiment Calibration Report **MassLynx 4.1 SCN640**

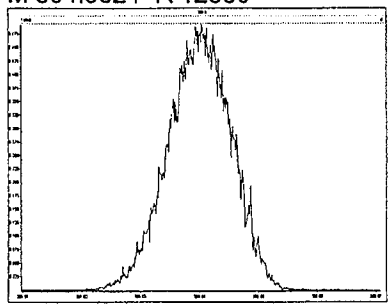
File: Experiment: tcdd_tcdf225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 10, 2011 12:07:33 Eastern Daylight Time

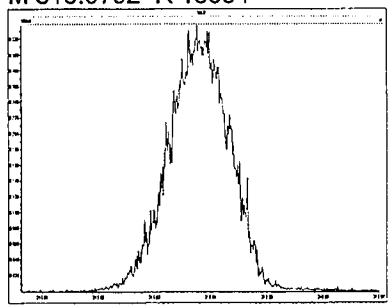
M 292.9824 R 11851



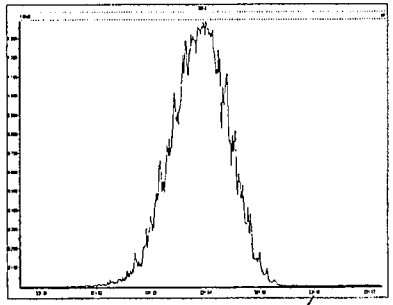
M 304.9824 R 12880



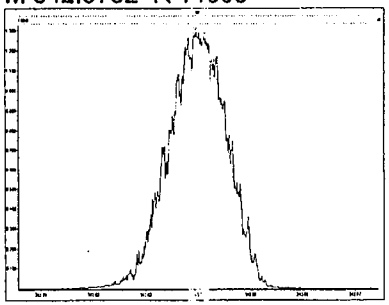
M 318.9792 R 13094



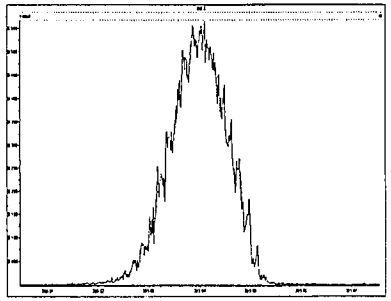
M 330.9792 R 13815



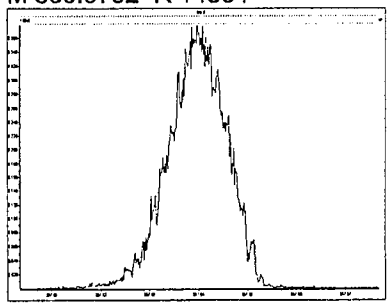
M 342.9792 R 14368



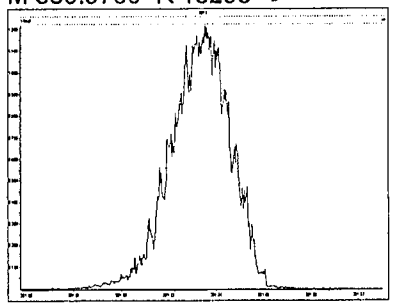
M 354.9792 R 13887



M 366.9792 R 14364



M 380.9760 R 13298

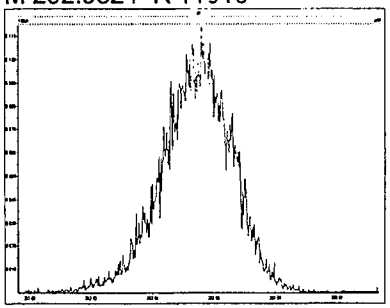


Experiment Calibration Report **MassLynx 4.1 SCN640**

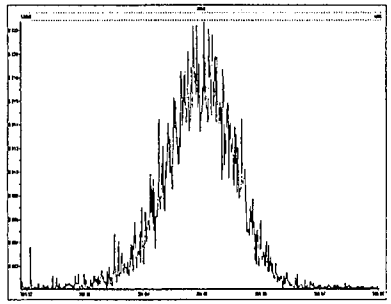
File: Experiment: tcdd_tcdf225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 10, 2011 17:01:46 Eastern Daylight Time

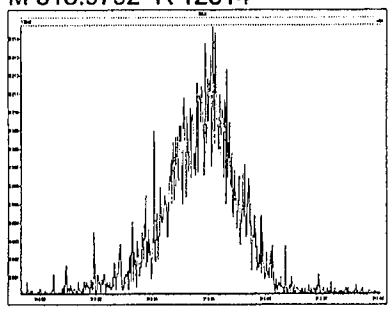
M 292.9824 R 11016



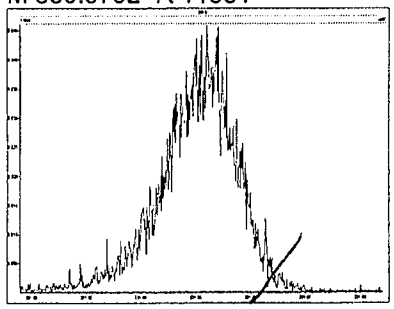
M 304.9824 R 11161



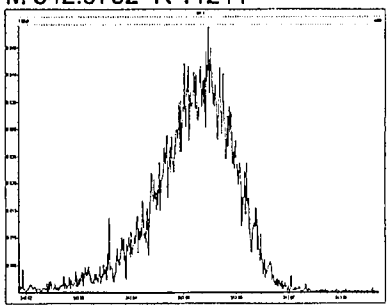
M 318.9792 R 12314



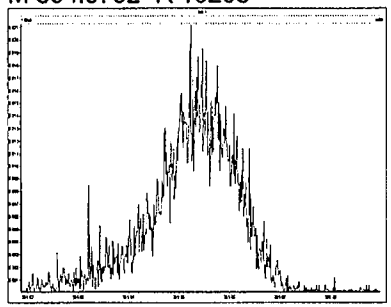
M 330.9792 R 11851



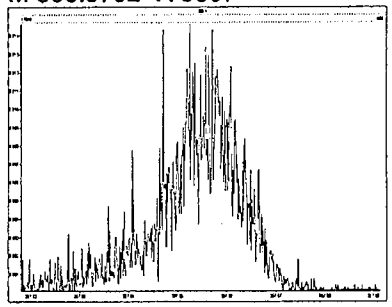
M 342.9792 R 11211



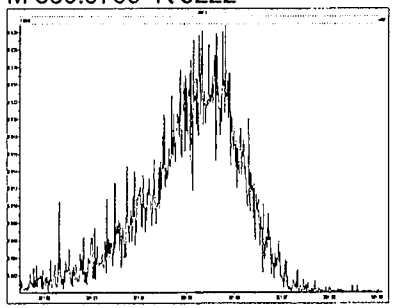
M 354.9792 R 10203

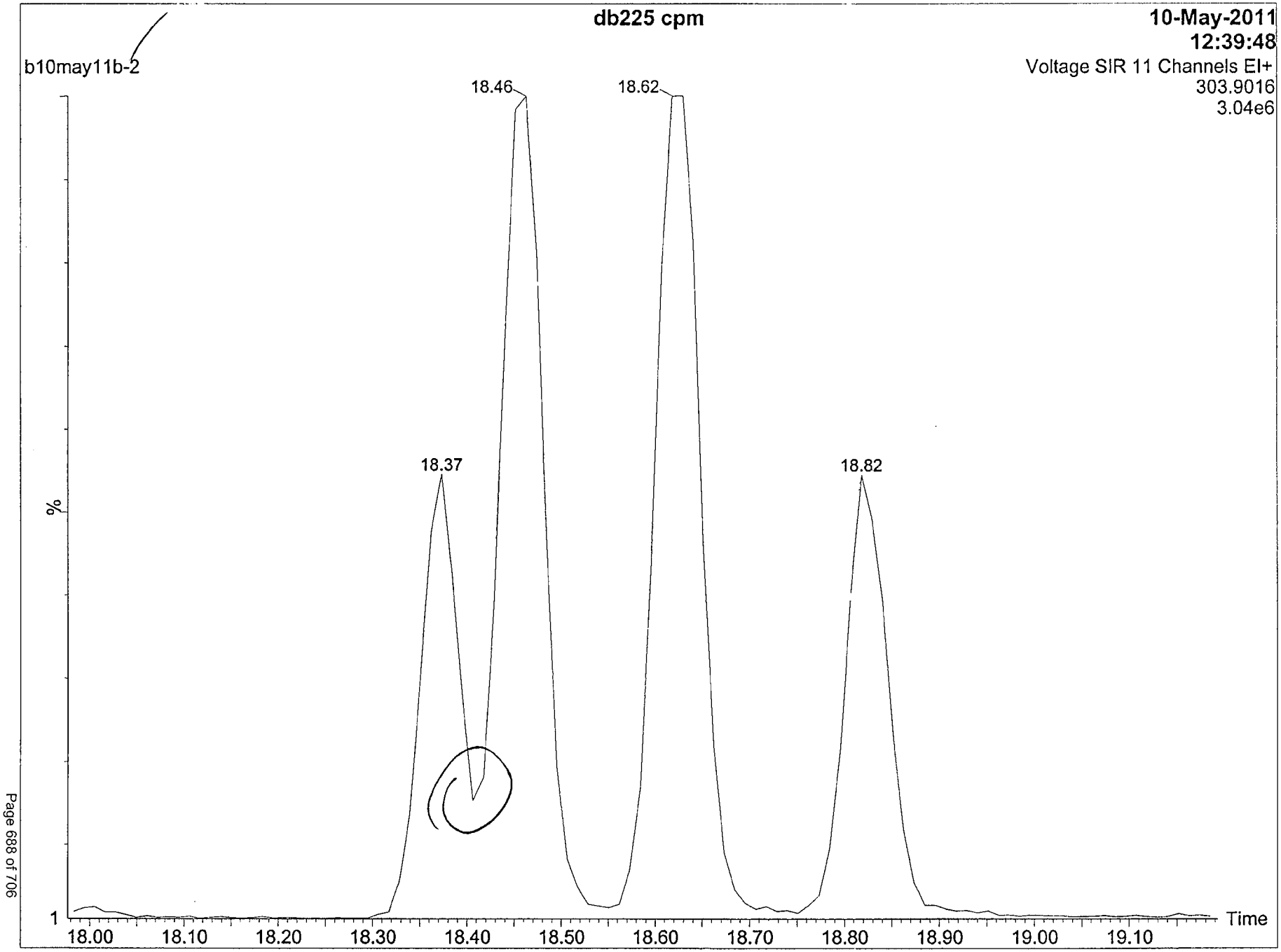


M 366.9792 R 9507



M 380.9760 R 9222




db225 cpm
10-May-2011
12:39:48
b10may11b-2
Voltage SIR 11 Channels EI+
303.9016
3.04e6
18.46
18.62
18.37
18.82
%
1
Time
18.00
18.10
18.20
18.30
18.40
18.50
18.60
18.70
18.80
18.90
19.00
19.10

Quantify Sample Summary Report **MassLynx 4.1 SCN640**
CCAL Summary

Dataset: Untitled

Last Altered: 11-May-11 9:00:15 AM Eastern Daylight Time
Printed: 11-May-11 9:00:59 AM Eastern Daylight Time

CCV

Method: Untitled 19 Jan 2011 09:35:34
Calibration: C:\MassLynx\Default.pro\Curvedb\mcf-110310a.cdb 04 Nov 2010 08:53:12

Name: b10may11b-1, ID: RETCON_S38-57M, Date: 10-May-2011, Time: 12:10:09

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	1.059e5	4.548e4	6.043e4	0.75	NO	18.46	12.4	11.236	1.262		
2	2	ES:13C-2378-TCDF	8.394e5	3.755e5	4.639e5	0.81	NO	18.45	-13.5	86.522	1.175		
3	3	JS:13C-1234-TCDD	7.145e5	3.184e5	3.961e5	0.80	NO	17.64	59.1	159.107	7145.2...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

Quantify Sample Summary Report **MassLynx 4.1**
CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\Confirms\c10may10a-9.qld

Last Altered: Tuesday, May 10, 2011 17:19:37 Eastern Daylight Time
Printed: Tuesday, May 10, 2011 17:22:01 Eastern Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\confirms.mdb 09 May 2011 15:49:23
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\mcf-c022111b.cdb 22 Feb 2011 10:30:38

Name: c10may11a-9, ID: CS3_S36-163U, Date: 10-May-2011, Time: 16:31:12

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	4.946e4	2.163e4	2.783e4	0.78	NO	17.68	-8.1	9.188	0.861		
2	2	ES:13C-2378-TCDF	5.743e5	2.538e5	3.205e5	0.79	NO	17.67	-11.6	88.420	1.444		
3	3	JS:13C-1234-TCDD	3.978e5	1.728e5	2.250e5	0.77	NO	16.93	-95.2	4.762	3977.7...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

SGS North America, Inc.

mcf-C02212011

Instrument: HRMS3

Data File	Sample ID	Analyst	Acquisition Date/Time	Inj.Vol
c21feb11b-1	CS0.5_S37-401G	KAS	2011-02-21 12:59:09	1 uL
c21feb11b-2	CS2_S36-206K	KAS	2011-02-21 13:29:21	1 uL
c21feb11b-3	CS3_S36-206J	KAS	2011-02-21 14:07:43	1 uL
c21feb11b-4	CS4_S37-401L	KAS	2011-02-21 14:46:02	1 uL
c21feb11b-5	CS5_S37-401M	KAS	2011-02-21 15:24:30	1 uL

2,3,7,8TCDF Cal

Confirm curve passes
222211

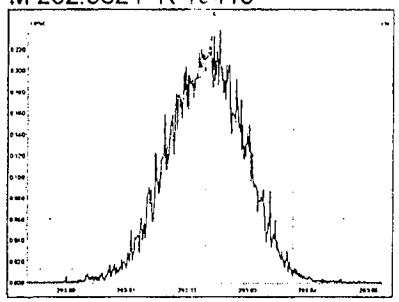
TM 2-22-11

Experiment Calibration Report **MassLynx 4.1**

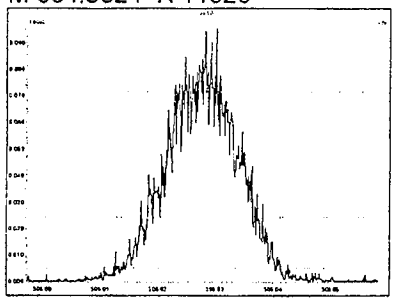
File: Experiment: tcdd_tcdf225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, February 21, 2011 12:58:35 Eastern Standard Time

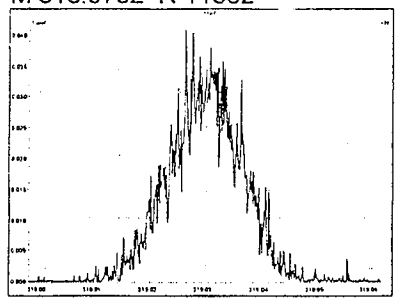
M 292.9824 R 10413



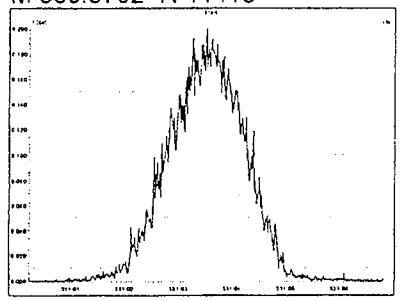
M 304.9824 R 11520



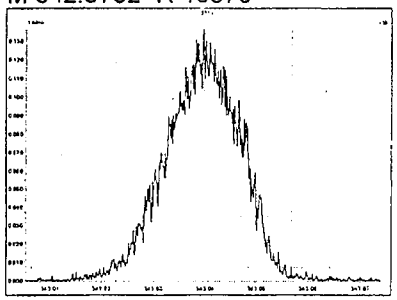
M 318.9792 R 11362



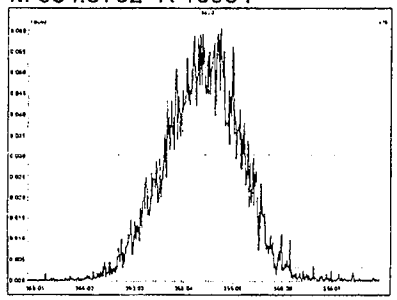
M 330.9792 R 11418



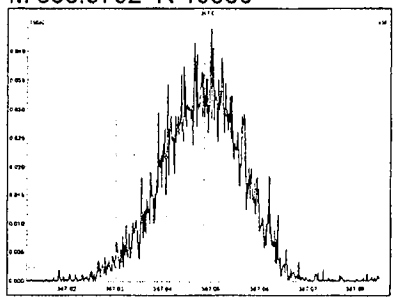
M 342.9792 R 10870



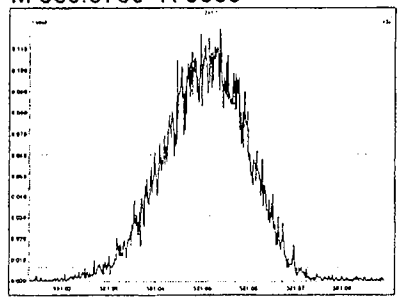
M 354.9792 R 10964



M 366.9792 R 10550

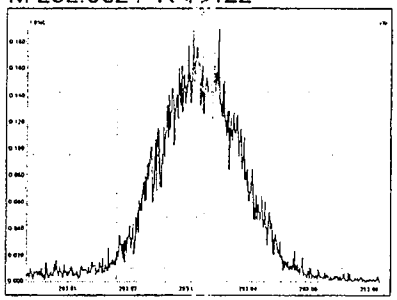


M 380.9760 R 9653

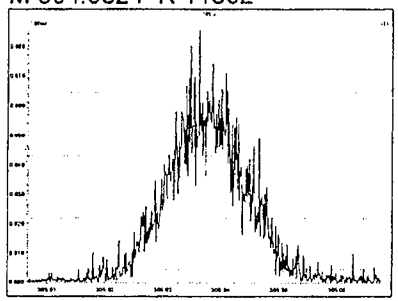


Printed: Monday, February 21, 2011 15:58:06 Eastern Standard Time

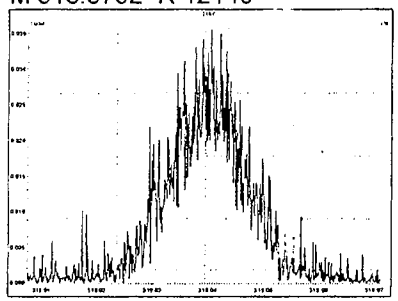
M 292.9824 R 1[illegible]122



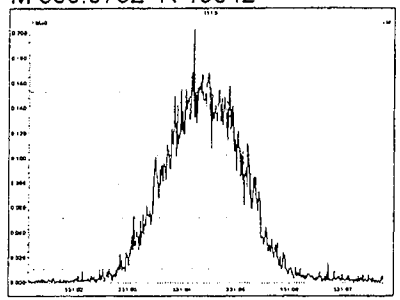
M 304.9824 R 11502



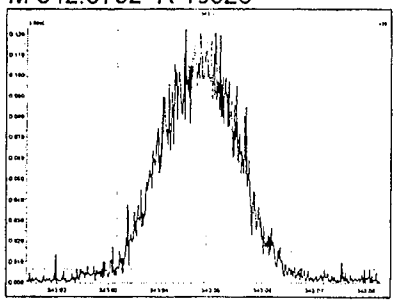
M 318.9792 R 12140



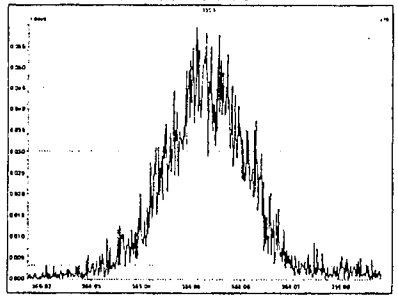
M 330.9792 R 10642



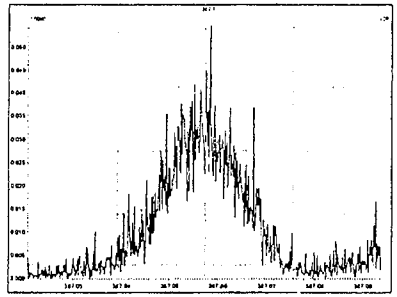
M 342.9792 R 1[illegible]526



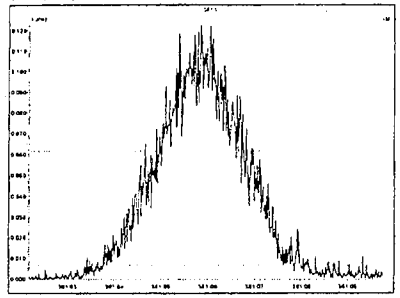
M 354.9792 R 10868



M 366.9792 R 10303



M 380.9760 R 9666



ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

Method: C:\MassLynx\DEFAULT.PRO\MethDB\confirms.mdb 21 Feb 2011 15:13:00
Calibration: 22 Feb 2011 09:30:38

Compound name: 2378-TCDF
Response Factor: 0.937411
RRF SD: 0.0629219, Relative SD: 6.71231
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
1	1	c21feb11b-1	CS0.5_S37-401G	3.13e4	1.40e4	15.03	0.25	0.877	284016	4283	66.3	21-Feb-11	12:59:09	MM
2	2	c21feb11b-2	CS2_S36-206K	2.25e5	9.62e4	14.94	2.00	0.868	2094684	3796	551.9	21-Feb-11	13:29:21	bs
3	3	c21feb11b-3	CS3_S36-206J	1.21e6	5.27e5	14.91	10.00	0.949	11614403	4924	2358.9	21-Feb-11	14:07:43	bb
4	4	c21feb11b-4	CS4_S37-401L	4.11e6	1.80e6	14.91	40.00	0.985	39868568	7037	5665.3	21-Feb-11	14:46:02	bb
5	5	c21feb11b-5	CS5_S37-401M	3.62e7	1.59e7	15.00	200.00	1.008	3502[illegible]8320	12675	27632.0	21-Feb-11	15:24:30	bb

Compound name: ES:13C 2378-TCDF
Response Factor: 1.63273
RRF SD: 0.0284745, Relative SD: 1.74398
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	#	Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
1	1	c21feb11b-1	CS0.5_S37-401G	1.42e7	6.29e6	15.02	100.00	1.654	137565920	8952	15366.7	21-Feb-11	12:59:09	bb
2	2	c21feb11b-2	CS2_S36-206K	1.29e7	5.70e6	14.94	100.00	1.604	119747808	7957	15048.8	21-Feb-11	13:29:21	bb
3	3	c21feb11b-3	CS3_S36-206J	1.28e7	5.62e6	14.89	100.00	1.622	118855784	7362	16144.9	21-Feb-11	14:07:43	bb
4	4	c21feb11b-4	CS4_S37-401L	1.04e7	4.59e6	14.90	100.00	1.613	101762344	6772	15027.4	21-Feb-11	14:46:02	bb
5	5	c21feb11b-5	CS5_S37-401M	1.80e7	7.88e6	14.99	100.00	1.671	175301984	9358	18733.0	21-Feb-11	15:24:30	bb

Compound name: JS:13C-1234-TCDD
Response Factor: 83530.9
RRF SD: 15602.3, Relative SD: 18.6785
Response type: External Std, Area
Curve type: RF

	#	Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
1	1	c21feb11b-1	CS0.5_S37-401G	8.62e6	3.81e6	14.38	100.00	86153.652	85929736	6914	12427.9	21-Feb-11	12:59:09	db
2	2	c21feb11b-2	CS2_S36-206K	8.07e6	3.56e6	14.29	100.00	80700.322	77139984	6539	11797.7	21-Feb-11	13:29:21	db
3	3	c21feb11b-3	CS3_S36-206J	7.86e6	3.48e6	14.25	100.00	78607.753	73679112	6535	11275.4	21-Feb-11	14:07:43	db
4	4	c21feb11b-4	CS4_S37-401L	6.46e6	2.87e6	14.25	100.00	64631.950	64888952	6598	9834.7	21-Feb-11	14:46:02	dd

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

Compound name: JS:13C-1234-TCDD

	#	Name	ID	Response	Ion1Area	RT	Conc	RRF	Height1	Noise1	SN1	Acq.Date	Acq.Time	Primar...
5	5	c21feb11b-5	CS5_S37-401M	1.08e7	4.75e6	14.34	100.00	107560.7...	105138096	8102	12976.5	21-Feb-11	15:24:30	db

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

0.25pg/µl

Method: C:\MassLynx\DEFAULT.PRO\MethDB\confirms.mdb 21 Feb 2011 15:13:00
Calibration: 22 Feb 2011 09:30:38

Name: c21feb11b-1, ID: CS0.5_S37-401G, Date: 21-Feb-2011, Time: 12:59:09

	# Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1 2378-TCDF	3.125e4	1.401e4	1.724e4	0.81	NO	15.03	-6.4	0.234	0.877		
2	2 ES:13C-2378-TCDF	1.425e7	6.294e6	7.953e6	0.79	NO	15.02	1.3	101.283	1.654		
3	3 JS:13C-1234-TCDD	8.615e6	3.810e6	4.806e6	0.79	NO	14.38	3.1	103.140	86153....		
4	4 Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5 F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{TCDF RRF} = \frac{1.401e4 + 1.724e4}{6.294e6 + 7.953e6}\left(\frac{100\ pg/\mu l}{0.25\ pg/\mu l}\right) = 0.877$$

TM 2-22-11

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

2 pg/µl

Name: c21feb11b-2, ID: CS2_S36-206K, Date: 21-Feb-2011, Time: 13:29:21

	# Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1 2378-TCDF	2.246e5	9.616e4	1.284e5	0.75	NO	14.94	-7.4	1.851	0.868		
2	2 ES:13C-2378-TCDF	1.294e7	5.696e6	7.247e6	0.79	NO	14.94	-1.8	98.225	1.604		
3	3 JS:13C-1234-TCDD	8.070e6	3.558e6	4.512e6	0.79	NO	14.29	-3.4	96.611	80700....		
4	4 Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5 F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{ES TCDF RRF} = \frac{5.696e6 + 7.247e6}{3.558e6 + 4.512e6}\left(\frac{100\,pg/\mu l}{100\,pg/\mu l}\right) = 1.604$$

TM 2-22-11

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

10pg/uL

Name: c21feb11b-3, ID: CS3_S36-206J, Date: 21-Feb-2011, Time: 14:07:43

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	1.211e6	5.270e5	6.835e5	0.77	NO	14.91	1.3	10.127	0.949		
2	2	ES:13C-2378-TCDF	1.275e7	5.621e6	7.131e6	0.79	NO	14.89	-0.6	99.357	1.622		
3	3	JS:13C-1234-TCDD	7.861e6	3.480e6	4.381e6	0.79	NO	14.25	-5.9	94.106	78607....		
4	4	Hexa Ether	1.880e5	1.880e5	-	-	-	19.37		-	18801...	0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

40pg/µl

Name: c21feb11b-4, ID: CS_S37-401L, Date: 21-Feb-2011, Time: 14:46:02

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	4.107e6	1.801e6	2.305e6	0.78	NO	14.91	5.1	42.022	0.985		
2	2	ES:13C-2378-TCDF	1.043e7	4.590e6	5.835e6	0.79	NO	14.90	-1.2	98.791	1.613		
3	3	JS:13C-1234-TCDD	6.463e6	2.870e6	3.594e6	0.80	NO	14.25	-22.6	77.375	64631....		
4	4	Hexa Ether	5.447e5	5.447e5	-	-	-	18.25		-	54471...	0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{TCDF RRF} = \frac{1.801e6 + 2.305e6}{4.590e6 + 5.835e6}\left(\frac{100\,pg/\mu l}{40\,pg/\mu l}\right) = 0.985$$

TM 2-22-11

ICAL Summary
Dataset: C:\MassLynx\Default.pro\Curvedb\c21feb11b-confirms.qld

200pg/µl

Name: c21feb11b-5, ID: CS5_S37-401M, Date: 21-Feb-2011, Time: 15:24:30

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	3.623e7	1.591e7	2.032e7	0.78	NO	15.00	7.5	215.050	1.008		
2	2	ES:13C-2378-TCDF	1.797e7	7.882e6	1.009e7	0.78	NO	14.99	2.3	102.344	1.671		
3	3	JS:13C-1234-TCDD	1.076e7	4.751e6	6.005e6	0.79	NO	14.34	28.8	128.768	10756...		
4	4	Hexa Ether	3.983e6	3.983e6	-	-	-	18.33		-	39829...	0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

$$\text{ES-TCDF RRF} = \frac{7.882e6 + 1.009e7}{4.751e6 + 6.005e6}\left(\frac{100pg/\mu l}{100pg/\mu l}\right) = 1.671$$

TM 2-22-11

Confirm Analyses

SGS North America, Inc.

2,3,7,8-TCDF

Instrument: HRMS3

Data File	Sample ID	Analyst	Acquisition Date/Time	Inj.Vol
c09may11b-1	CS3_S36-163Upcss	JLJ	2011-05-09 09:06:50	1 uL
c09may11b-2	225_CPM	JLJ	2011-05-09 09:37:01	1 uL
c09may11b-3	Solvent Blank	JLJ	2011-05-09 10:09:43	1 uL
c09may11b-4	31100958014	JLJ	2011-05-09 10:40:44	1 uL
c09may11b-5	31100958013	JLJ	2011-05-09 11:12:39	1 uL
c09may11b-6	31100958008	JLJ	2011-05-09 11:44:32	1 uL
c09may11b-7	31100958009	JLJ	2011-05-09 12:16:26	1 uL
c09may11b-8	31100958010	JLJ	2011-05-09 12:48:18	1 uL
c09may11b-9	31100958011	JLJ	2011-05-09 13:20:12	1 uL
c09may11b-10	31100958012	JLJ	2011-05-09 13:52:04	1 uL
c09may11b-11	31100958006	JLJ	2011-05-09 14:23:59	1 uL
c09may11b-12	31100826001	JLJ	2011-05-09 15:03:52	1 uL
c09may11b-13	31100826003	JLJ	2011-05-09 15:34:03	1 uL

050911

TM 5-9-11

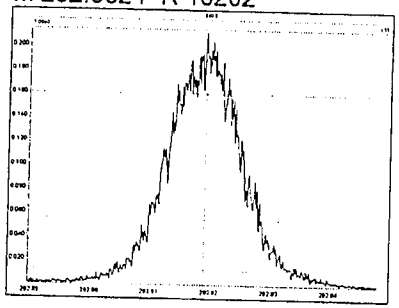
Experiment Calibration Report

MassLynx 4.1

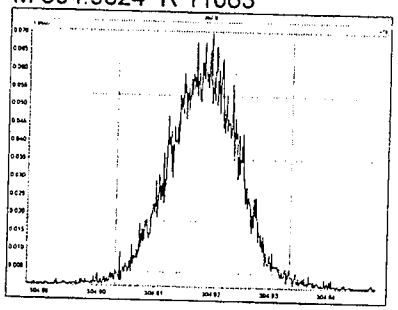
File: Experiment: tcdd_tcdf225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 09, 2011 09:06:14 Eastern Daylight Time

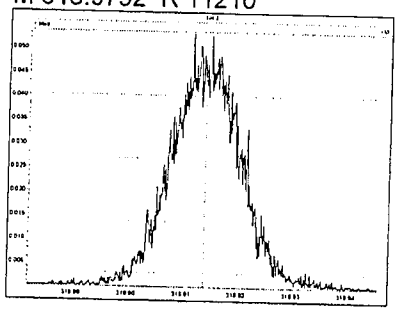
M 292.9824 R 10202



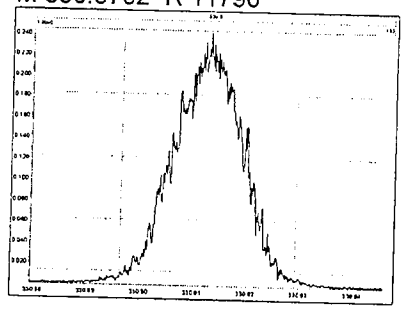
M 304.9824 R 11063



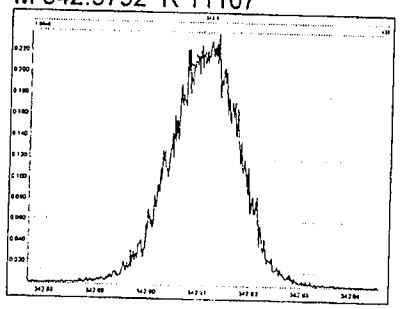
M 318.9792 R 11210



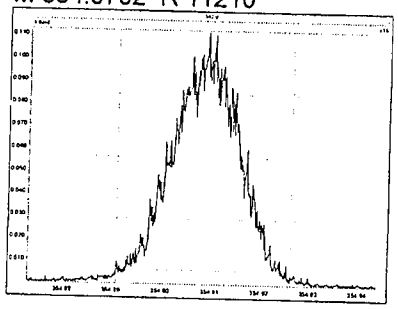
M 330.9792 R 11790



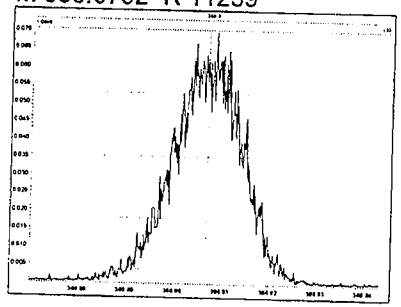
M 342.9792 R 11107



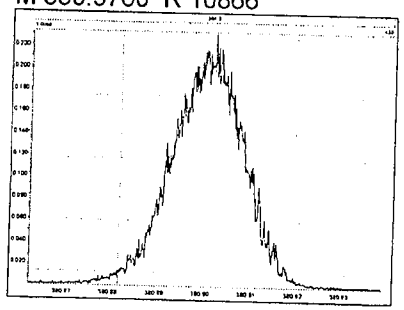
M 354.9792 R 11210



M 366.9792 R 11259



M 380.9760 R 10866

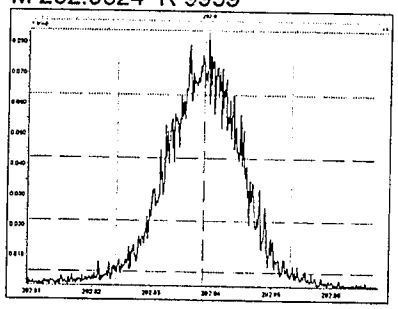


Experiment Calibration Report **MassLynx 4.1**

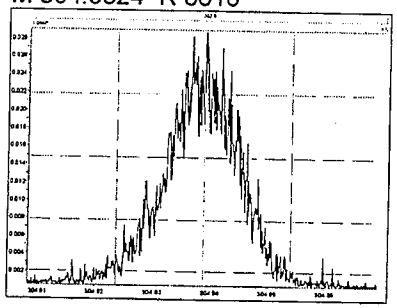
File: Experiment: tcdd_tcdf225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 09, 2011 16:09:29 Eastern Daylight Time

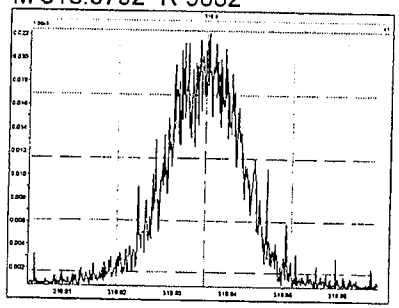
M 292.9824 R 9959



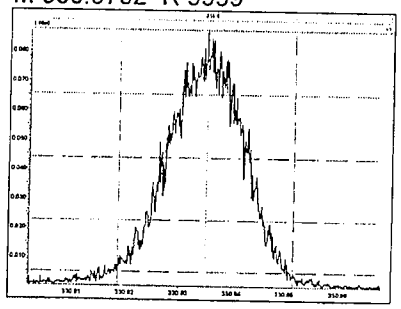
M 304.9824 R 8618



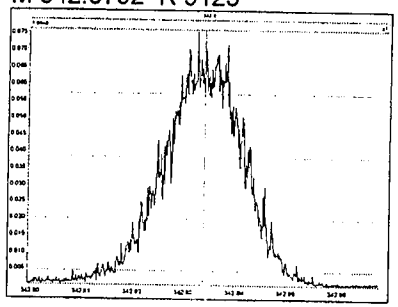
M 318.9792 R 9882



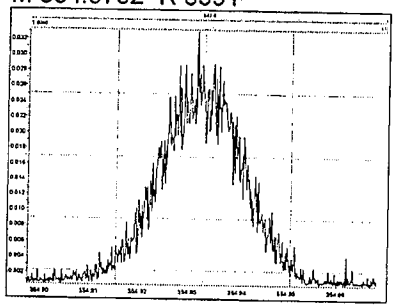
M 330.9792 R 9999



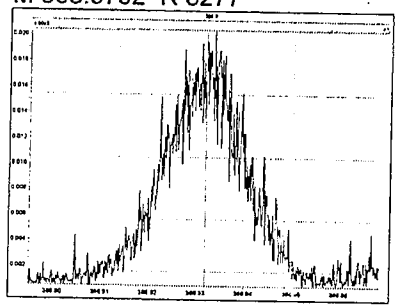
M 342.9792 R 9125



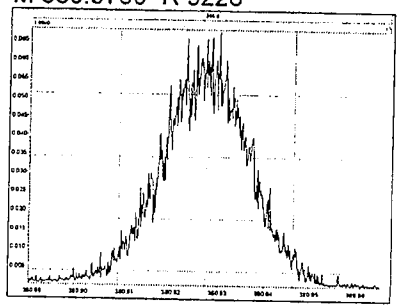
M 354.9792 R 8591

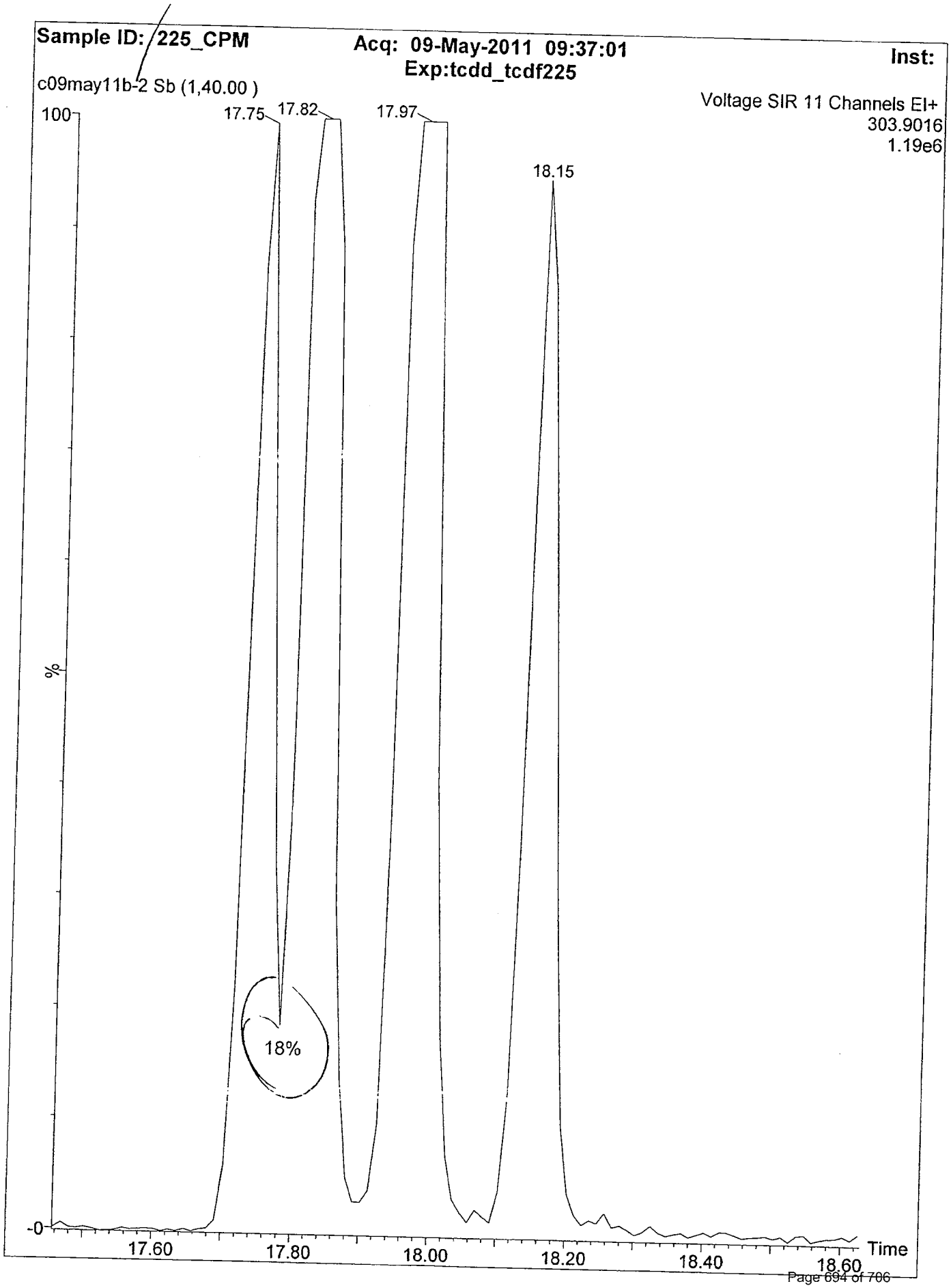


M 366.9792 R 8277



M 380.9760 R 9226




Sample ID: 225_CPM
Acq: 09-May-2011 09:37:01
Exp:tcdd_tcdf225
Inst:
c09may11b-2 Sb (1,40.00)
Voltage SIR 11 Channels EI+
303.9016
1.19e6
100
%
-0
17.75
17.82
17.97
18.15
18%
17.60
17.80
18.00
18.20
18.40
18.60
Time

Quantify Sample Summary Report **MassLynx 4.1**
CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\Confirms\c09may11b-1.qld

Last Altered: Monday, 5/9/2011 11:42:02 AM Eastern Daylight Time
Printed: Monday, 5/9/2011 11:42:34 AM Eastern Daylight Time

Method: Untitled 21 Feb 2011 16:13:00
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\mcf-c022111b.cdb 22 Feb 2011 10:30:38

Name: c09may11b-1, ID: CS3_S36-163U, Date: 09-May-2011, Time: 09:06:50

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	1.316e5	5.845e4	7.316e4	0.80	NO	17.84	-0.1	9.986	0.936		
2	2	ES:13C-2378-TCDF	1.406e6	6.097e5	7.963e5	0.77	NO	17.82	-16.8	83.205	1.359		
3	3	JS:13C-1234-TCDD	1.035e6	4.543e5	5.807e5	0.78	NO	17.08	-87.6	12.390	10349....		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

SGS North America, Inc.

Instrument: HRMS3

Data File	Sample ID	Analyst	Acquisition Date/Time	Inj.Vol
~~c10may11a_1:7~~	~~CS5_S14-55E~~	~~DES~~	~~2010-05-11 10:19:09~~	~~1 uL~~
~~c10may11b_1:7~~	~~CS5_S14-55E~~	~~DES~~	~~2010-05-11 11:25:18~~	~~1 uL~~
c10may11a-1	RETCON_S38-124F	JLJ	2011-05-10 09:23:08	1 uL
c10may11b-1	RETCON_S38-124F pass	JLJ	2011-05-10 11:57:26	1 uL
c10may11a-2	225_CPM	JLJ	2011-05-10 12:27:38	1 uL
c10may11a-3	SB	JLJ	2011-05-10 12:58:46	1 uL
c10may11a-4	31100890007	JLJ	2011-05-10 13:33:57	1 uL
c10may11a-5	31100958001	JLJ	2011-05-10 14:04:08	1 uL
c10may11a-6	31100958002	JLJ	2011-05-10 14:35:17	1 uL
c10may11a-7	CS3_S36-163U	JLJ	2011-05-10 15:21:09	1 uL
c10may11a-8	199~~81~~ 79	JLJ	2011-05-10 16:00:58	1 uL
c10may11a-9	CS3_S36-163U pass	JLJ	2011-05-10 16:31:12	1 uL

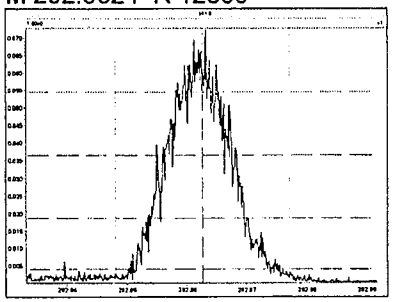
TM 5-11-11

Experiment Calibration Report **MassLynx 4.1**

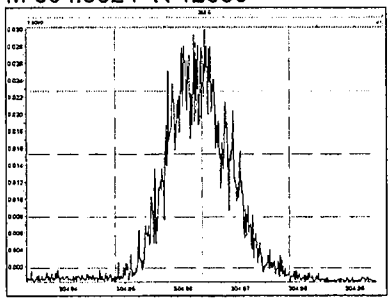
File: Experiment: tcdd_tcdf225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, May 10, 2011 11:57:07 Eastern Daylight Time

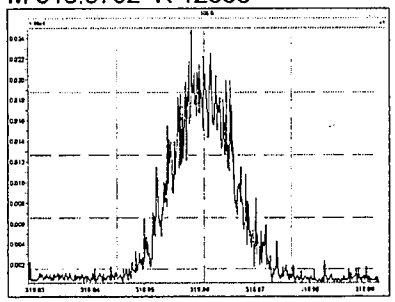
M 292.9824 R 12886



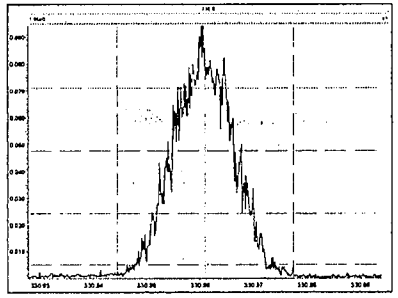
M 304.9824 R 12630



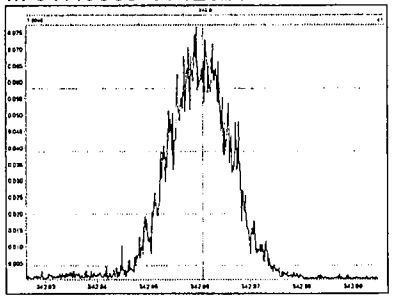
M 318.9792 R 12558



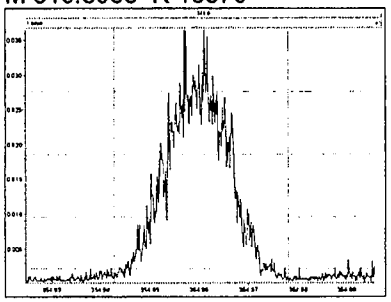
M 330.9792 R 13368



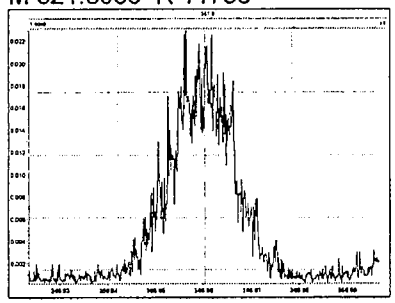
M 317.9389 R 12629



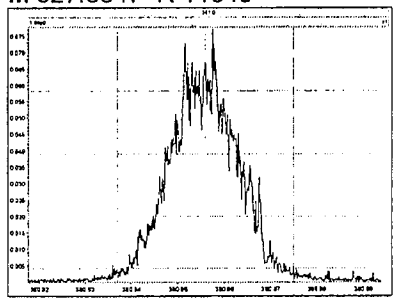
M 319.8965 R 13370



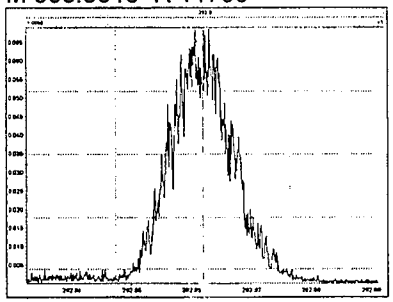
M 321.8936 R 11736



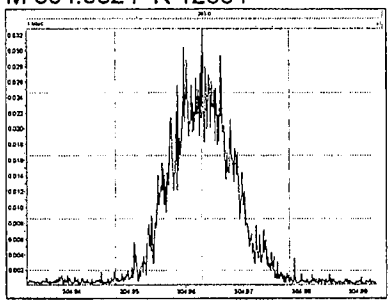
M 327.8847 R 11846



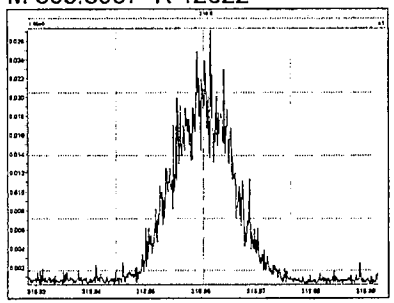
M 303.9016 R 11736



M 304.9824 R 12884

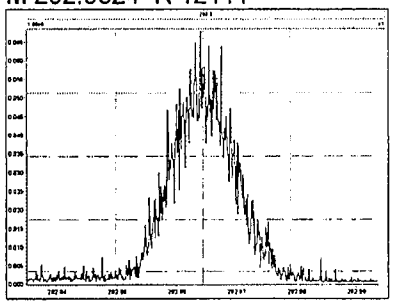


M 305.8987 R 12622

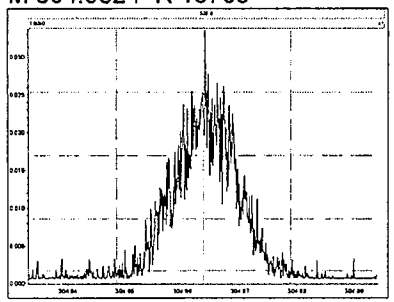


Printed: Tuesday, May 10, 2011 15:53:10 Eastern Daylight Time

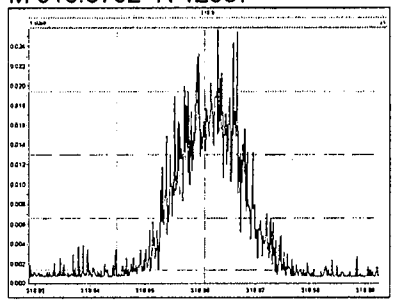
M 292.9824 R 12111



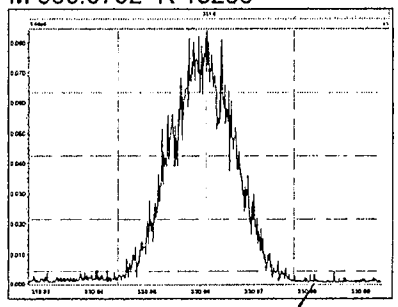
M 304.9824 R 13709



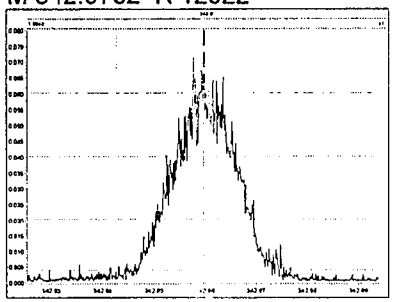
M 318.9792 R 12387



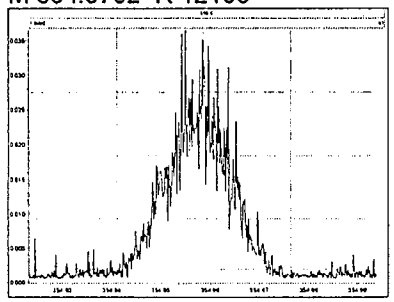
M 330.9792 R 13266



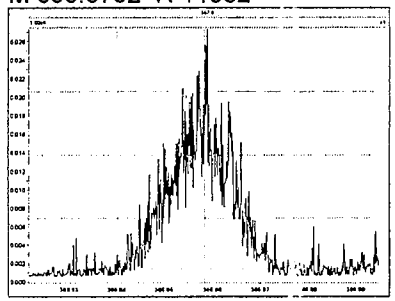
M 342.9792 R 12922



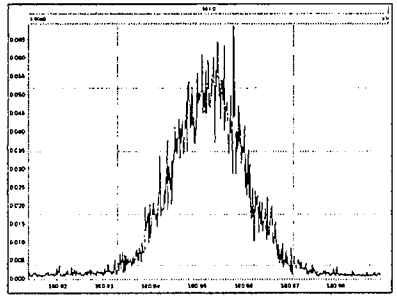
M 354.9792 R 12106



M 366.9792 R 11682



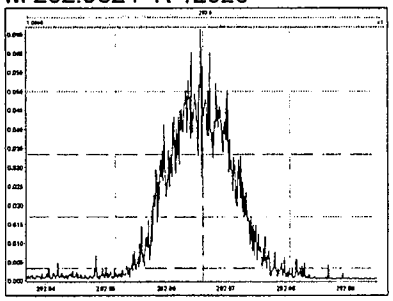
M 380.9760 R 10969



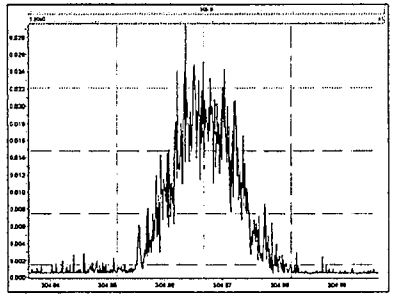
Resolution Check Report **MassLynx 4.1**

Printed: Tuesday, May 10, 2011 17:04:02 Eastern Daylight Time

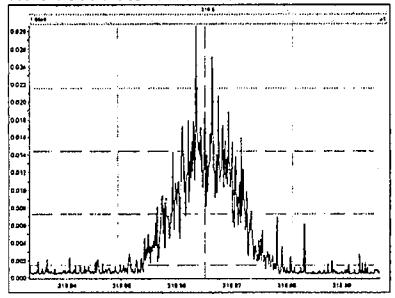
M 292.9824 R 12828



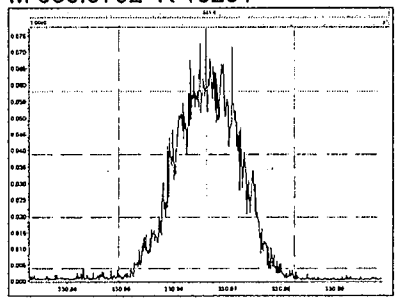
M 304.9824 R 12124



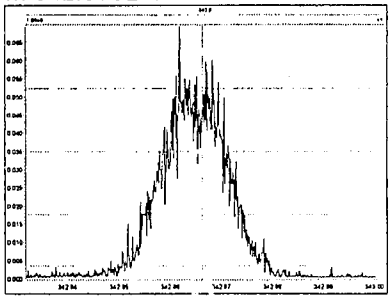
M 318.9792 R 6476



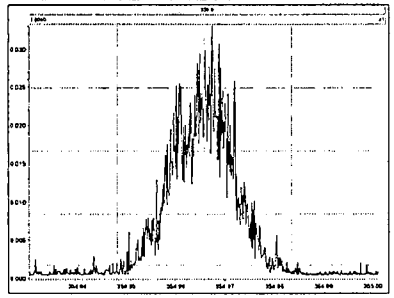
M 330.9792 R 13201



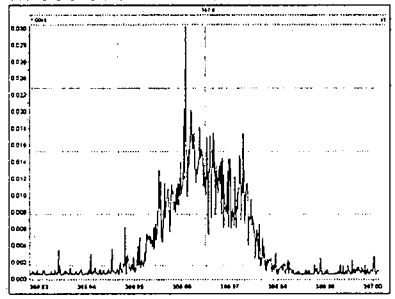
M 342.9792 R 12825



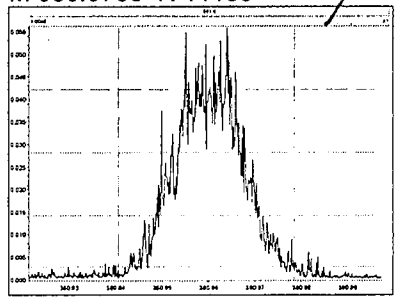
M 354.9792 R 12691

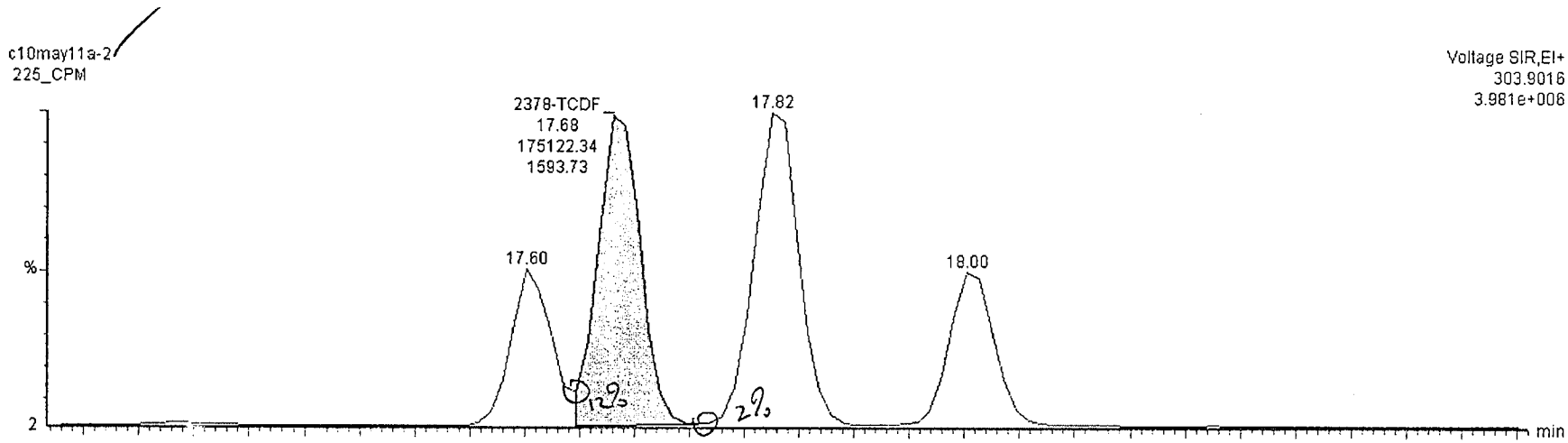


M 366.9792 R 11836



M 380.9760 R 11185




c10may11a-2
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Voltage SIR,EI+
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3.981e+006
2378-TCDF
17.68
175122.34
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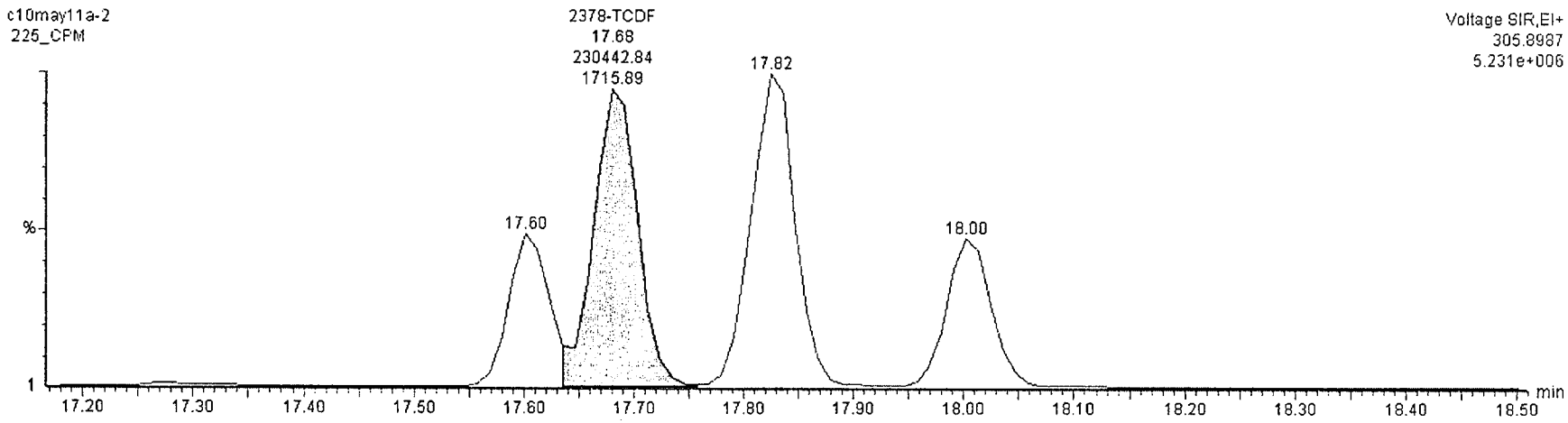
17.60
18.00
%
2
min
12%
2%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Voltage SIR,EI+
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2378-TCDF
17.68
230442.84
1715.89
17.82
17.60
18.00
%
1
min
17.20
17.30
17.40
17.50
17.60
17.70
17.80
17.90
18.00
18.10
18.20
18.30
18.40
18.50

Quantify Sample Summary Report **MassLynx 4.1**
CCAL Summary

Dataset: C:\MassLynx\Default.pro\Concals\Confirms\c10may10b-1.qld

Last Altered: Tuesday, May 10, 2011 12:36:04 Eastern Daylight Time
Printed: Tuesday, May 10, 2011 13:39:57 Eastern Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\confirms.mdb 09 May 2011 15:49:23
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\mcf-c022111b.cdb 22 Feb 2011 10:30:38

Name: c10may11b-1, ID: RETCON_S38-124F, Date: 10-May-2011, Time: 11:57:26

	#	Name	Response	Ion1Area	Ion2Area	RA	RAFail?	RT	%Dev	pg/µL	RRF	User RF	Mod.C...
1	1	2378-TCDF	5.493e4	2.390e4	3.104e4	0.77	NO	17.67	-6.0	9.397	0.881		
2	2	ES:13C-2378-TCDF	6.236e5	2.727e5	3.510e5	0.78	NO	17.66	-14.5	85.506	1.396		
3	3	JS:13C-1234-TCDD	4.467e5	1.935e5	2.531e5	0.76	NO	16.93	-94.7	5.348	4466.8...		
4	4	Hexa Ether	-	-	-	-	-	-		-		0.00	
5	5	F1 Lock Mass	-	-	-	-	-	-		-		0.00	

SGS

2,3,7,8-TCDF MB Confirm Col.

Method Blank Summary

Blank ID: LMB for HBN 5060 [HXX/1089]

Matrix: Soil-Solid as dry weight

Blank Lab ID: 19548

QC for Samples:

31100958001,31100958001,31100958002,31100958003,31100958004,31100958004,31100958005,31100958006,31100958006,31100958009,31100958009,31100958008,31100958008,31100958008,31100958008,31100958008,31100958007,3110

Results by **EPA 1613B**

Parameter	Result	EMPC	Qual	DL	LOQ/CL	Units	RT	Ratio
2,3,7,8-TCDD	ND		U	0.141	0.500	pg/g		
1,2,3,7,8-PeCDD	ND		U	0.195	2.50	pg/g		
1,2,3,4,7,8-HxCDD	ND		U	0.206	2.50	pg/g		
1,2,3,6,7,8-HxCDD	ND		U	0.205	2.50	pg/g		
1,2,3,7,8,9-HxCDD		0.348	J	0.215	2.50	pg/g	36.63	0.88*
1,2,3,4,6,7,8-HpCDD	**0.424**		J	0.218	2.50	pg/g	39.54	1.06
OCDD	**1.09**		J	0.328	5.00	pg/g	43.62	0.98
2,3,7,8-TCDF[confirm]	**0.442**		J	0.182	0.500	pg/g	16.32	0.85
2,3,7,8-TCDF	**0.544**			0.232	0.500	pg/g	29.77	0.72
1,2,3,7,8-PeCDF	**0.396**		J	0.208	2.50	pg/g	32.99	1.45
2,3,4,7,8-PeCDF	**0.410**		J	0.190	2.50	pg/g	33.61	1.71
1,2,3,4,7,8-HxCDF	**0.358**		J	0.205	2.50	pg/g	35.63	1.39
1,2,3,6,7,8-HxCDF		0.410	J	0.192	2.50	pg/g	35.72	1.05*
2,3,4,6,7,8-HxCDF		0.354	J	0.203	2.50	pg/g	36.22	1.49*
1,2,3,7,8,9-HxCDF		0.548	J	0.282	2.50	pg/g	36.95	0.93*
1,2,3,4,6,7,8-HpCDF	**0.462**		J	0.129	2.50	pg/g	38.37	1.07
1,2,3,4,7,8,9-HpCDF	ND		U	0.212	2.50	pg/g		
OCDF		0.930	J	0.306	5.00	pg/g	43.93	0.73*
Total TCDD	ND		U	0.141	0.500	pg/g		
Total TCDF	**0.544**	0.726		0.232	0.500	pg/g		
Total PeCDD	ND		U	0.195	2.50	pg/g		
Total PeCDF	**0.806**		J	0.208	2.50	pg/g		
Total HxCDD	ND	0.348	U	0.215	2.50	pg/g		
Total HxCDF	**0.358**	1.67	J	0.282	2.50	pg/g		
Total HpCDD	**0.424**		J	0.218	2.50	pg/g		
Total HpCDF	**0.462**		J	0.212	2.50	pg/g		

Labeled Standards

13C-2378-TCDD	65.0	25.0-164	%
13C-12378-PeCDD	79.0	25.0-181	%
13C-123478-HxCDD	91.0	32.0-141	%
13C-123678-HxCDD	89.0	28.0-130	%
13C-1234678-HpCDD	91.0	23.0-140	%
13C-OCDD	76.0	17.0-157	%
13C-2378-TCDF	71.0	24.0-169	%
13C-12378-PeCDF	82.0	24.0-185	%
13C-23478-PeCDF	92.0	21.0-178	%
13C-123478-HxCDF	99.0	26.0-152	%
13C-123678-HxCDF	97.0	26.0-123	%
13C-234678-HxCDF	102	29.0-147	%
13C-123789-HxCDF	91.0	28.0-136	%
13C-1234678-HpCDF	102	28.0-143	%

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Member of SGS Group

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-FD-041911-01	UNITS	OU4-SD-M01-111B	RPD	D
PAH	1,1-BIPHENYL	5.9 J	UG/KG	5.5 J	7.02	0.40
PAH	ACENAPHTHENE	8.4 J	UG/KG	37	125.99	28.60 N/A <2X R.L.
PAH	ACENAPHTHYLENE	21 J	UG/KG	12 J	54.55	9.00 N/A <2X R.L.
PAH	ANTHRACENE	32	UG/KG	68	72.00	36.00 N/A <2X R.L.
~~PAH~~	~~BENZO(A)ANTHRACENE~~	~~200~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~200.00~~
~~PAH~~	~~BENZO(A)PYRENE~~	~~290~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~290.00~~
~~PAH~~	~~BENZO(B)FLUORANTHENE~~	~~300~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~300.00~~
PAH	BENZO(G,H,I)PERYLENE	190	UG/KG	190	0.00	0.00
PAH	BENZO(K)FLUORANTHENE	80	UG/KG	120	40.00	40.00
~~PAH~~	~~CHRYSENE~~	~~260~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~260.00~~
PAH	DIBENZO(A,H)ANTHRACENE	43	UG/KG	58	29.70	15.00
~~PAH~~	~~FLUORANTHENE~~	~~310~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~310.00~~
PAH	FLUORENE	31	UG/KG	52	50.60	21.00 N/A <2X R.L.
PAH	INDENO(1,2,3-CD)PYRENE	160	UG/KG	200	22.22	40.00
PAH	NAPHTHALENE	33	UG/KG	57	53.33	24.00 N/A <2X R.L.
PAH	PERYLENE	41	UG/KG	58	34.34	17.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-FD-041911-01	UNITS	OU4-SD-M01-111BDL	RPD	D
PAH	1,1-BIPHENYL	5.9 J	UG/KG	ND	200.00	5.90
PAH	ACENAPHTHENE	8.4 J	UG/KG	ND	200.00	8.40
PAH	ACENAPHTHYLENE	21 J	UG/KG	ND	200.00	21.00
PAH	ANTHRACENE	32	UG/KG	ND	200.00	32.00
PAH	BENZO(A)ANTHRACENE	200	UG/KG	290	36.73	90.00
PAH	BENZO(A)PYRENE	290	UG/KG	320	9.84	30.00
PAH	BENZO(B)FLUORANTHENE	300	UG/KG	380	23.53	80.00
PAH	BENZO(G,H,I)PERYLENE	190	UG/KG	ND	200.00	190.00
PAH	BENZO(K)FLUORANTHENE	80	UG/KG	ND	200.00	80.00
PAH	CHRYSENE	260	UG/KG	330	23.73	70.00
PAH	DIBENZO(A,H)ANTHRACENE	43	UG/KG	ND	200.00	43.00
PAH	FLUORANTHENE	310	UG/KG	510	48.78	200.00
PAH	FLUORENE	31	UG/KG	ND	200.00	31.00
PAH	INDENO(1,2,3-CD)PYRENE	160	UG/KG	ND	200.00	160.00
PAH	NAPHTHALENE	33	UG/KG	ND	200.00	33.00
PAH	PERYLENE	41	UG/KG	ND	200.00	41.00
PAH	PHENANTHRENE	ND	UG/KG	380	200.00	380.00
PAH	PYRENE	ND	UG/KG	660	200.00	660.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-FD-041911-01DL	UNITS	OU4-SD-M01-111BDL	RPD	D
PAH	BENZO(A)ANTHRACENE	ND	UG/KG	290	200.00	290.00
PAH	BENZO(A)PYRENE	ND	UG/KG	320	200.00	320.00
PAH	BENZO(B)FLUORANTHENE	ND	UG/KG	380	200.00	380.00
PAH	CHRYSENE	ND	UG/KG	330	200.00	330.00
PAH	FLUORANTHENE	ND	UG/KG	510	200.00	510.00
PAH	PHENANTHRENE	410	UG/KG	380	7.59	30.00
PAH	PYRENE	950	UG/KG	660	36.02	290.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-FD-041911-02	UNITS	OU4-SD-M05-111B	RPD	D	
PAH	1,1-BIPHENYL	2.7 J	UG/KG	2.5 J	7.69	0.20	
PAH	ACENAPHTHENE	13 J	UG/KG	62	130.67	49.00	N/A < 2XR.L.
PAH	ACENAPHTHYLENE	6.2 J	UG/KG	8.2 J	27.78	2.00	
PAH	ANTHRACENE	42	UG/KG	130	102.33	88.00	
PAH	BENZO(A)ANTHRACENE	170	UG/KG	410	82.76	240.00	
PAH	BENZO(A)PYRENE	190	UG/KG	390	68.97	200.00	
~~PAH~~	~~BENZO(B)FLUORANTHENE~~	~~250~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~250.00~~	
PAH	BENZO(G,H,I)PERYLENE	98	UG/KG	180	58.99	82.00	
PAH	BENZO(K)FLUORANTHENE	97	UG/KG	190	64.81	93.00	
PAH	CHRYSENE	200	UG/KG	420	70.97	220.00	
PAH	DIBENZO(A,H)ANTHRACENE	34 J	UG/KG	60	55.32	26.00	N/A < 2XR.L.
PAH	DIBENZOTHIOPHENE	ND	UG/KG	42	200.00	42.00	N/A < 2XR.L.
~~PAH~~	~~FLUORANTHENE~~	~~350~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~350.00~~	
PAH	FLUORENE	19 J	UG/KG	71	115.56	52.00	N/A < 2XR.L.
PAH	INDENO(1,2,3-CD)PYRENE	130	UG/KG	240 J	59.46	110.00	
PAH	NAPHTHALENE	9 J	UG/KG	8.8 J	2.25	0.20	
PAH	PERYLENE	44	UG/KG	87	65.65	43.00	N/A < 2XR.L.
~~PAH~~	~~PHENANTHRENE~~	~~170~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~170.00~~	
~~PAH~~	~~PYRENE~~	~~460~~	~~UG/KG~~	~~ND~~	~~200.00~~	~~460.00~~	

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-FD-041911-02	UNITS	OU4-SD-M05-111BDL	RPD	D
PAH	1,1-BIPHENYL	2.7 J	UG/KG	ND	200.00	2.70
PAH	ACENAPHTHENE	13 J	UG/KG	ND	200.00	13.00
PAH	ACENAPHTHYLENE	6.2 J	UG/KG	ND	200.00	6.20
PAH	ANTHRACENE	42	UG/KG	ND	200.00	42.00
PAH	BENZO(A)ANTHRACENE	170	UG/KG	ND	200.00	170.00
PAH	BENZO(A)PYRENE	190	UG/KG	ND	200.00	190.00
PAH	BENZO(B)FLUORANTHENE	250	UG/KG	480 J	63.01	230.00
PAH	BENZO(G,H,I)PERYLENE	98	UG/KG	ND	200.00	98.00
PAH	BENZO(K)FLUORANTHENE	97	UG/KG	ND	200.00	97.00
PAH	CHRYSENE	200	UG/KG	ND	200.00	200.00
PAH	DIBENZO(A,H)ANTHRACENE	34 J	UG/KG	ND	200.00	34.00
PAH	FLUORANTHENE	350	UG/KG	960 J	93.13	610.00
PAH	FLUORENE	19 J	UG/KG	ND	200.00	19.00
PAH	INDENO(1,2,3-CD)PYRENE	130	UG/KG	ND	200.00	130.00
PAH	NAPHTHALENE	9 J	UG/KG	ND	200.00	9.00
PAH	PERYLENE	44	UG/KG	ND	200.00	44.00
PAH	PHENANTHRENE	170	UG/KG	700 J	121.84	530.00
PAH	PYRENE	460	UG/KG	1000 J	73.97	540.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-SD-FD-041911-03	UNITS	OU4-SD-M07-111B	RPD	D
PAH	ACENAPHTHENE	ND	UG/KG	3 J	200.00	3.00 N/A<2XR.L
PAH	ACENAPHTHYLENE	1.9 J	UG/KG	2.4 J	23.26	0.50
PAH	ANTHRACENE	9.6 J	UG/KG	11 J	13.59	1.40
PAH	BENZO(A)ANTHRACENE	61	UG/KG	70	13.74	9.00
PAH	BENZO(A)PYRENE	74	UG/KG	83	11.46	9.00
PAH	BENZO(B)FLUORANTHENE	100	UG/KG	120	18.18	20.00
PAH	BENZO(G,H,I)PERYLENE	48	UG/KG	57	17.14	9.00
PAH	BENZO(K)FLUORANTHENE	35	UG/KG	40	13.33	5.00
PAH	CHRYSENE	80	UG/KG	90	11.76	10.00
PAH	DIBENZO(A,H)ANTHRACENE	15 J	UG/KG	18 J	18.18	3.00
PAH	FLUORANTHENE	140	UG/KG	160	13.33	20.00
PAH	FLUORENE	ND	UG/KG	5.8 J	200.00	5.80 N/A<2XR.L.
PAH	INDENO(1,2,3-CD)PYRENE	60	UG/KG	70	15.38	10.00
PAH	PHENANTHRENE	59	UG/KG	73	21.21	14.00
PAH	PYRENE	210	UG/KG	230	9.09	20.00

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-SD-FD-041911-03	UNITS	OU4-SD-M07-111B	RPD	D	
PEST	2,4'-DDT	0.61 J	UG/KG	ND	200.00	0.61	N/A<2XR.L.
PEST	4,4'-DDD	1.5 J	UG/KG	2.2 J	37.84	0.70	
PEST	4,4'-DDE	1.6 J	UG/KG	1.9 J	17.14	0.30	
PEST	4,4'-DDT	1.6 J	UG/KG	3.2 J	66.67	1.60	N/A<2XR.L.
PEST	HEPTACHLOR EPOXIDE	0.7 J	UG/KG	0.64 J	8.96	0.06	

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

PORTSMOUTH
SEDIMENT DATA
WE29-1

FRACTION	CHEMICAL	OU4-SD-FD-041911-03	UNITS	OU4-SD-M07-111B	RPD	D
DIOX	1,2,3,4,6,7,8,9-OCDD	266	NG/KG	239	10.69	27.00
DIOX	1,2,3,4,6,7,8,9-OCDF	14.7	NG/KG	13.2	10.75	1.50
DIOX	1,2,3,4,6,7,8-HPCDD	28.7	NG/KG	23.8	18.67	4.90
DIOX	1,2,3,4,6,7,8-HPCDF	7.79	NG/KG	6.79	13.72	1.00
DIOX	1,2,3,4,7,8,9-HPCDF	ND	NG/KG	0.245 J	200.00	0.25 ~~N/A~~ <2X R.L.
DIOX	1,2,3,4,7,8-HXCDD	0.315 J	NG/KG	0.358 J	12.78	0.04
DIOX	1,2,3,6,7,8-HXCDD	1.4 J	NG/KG	1.14 J	20.47	0.26
DIOX	1,2,3,6,7,8-HXCDF	0.57 J	NG/KG	0.42 J	30.30	0.15
DIOX	1,2,3,7,8-PECDF	ND	NG/KG	0.268 J	200.00	0.27 ~~N/A~~ <2X R.L.
DIOX	2,3,4,6,7,8-HXCDF	ND	NG/KG	0.651 J	200.00	0.65 ~~N/A~~ <2X R.L.
DIOX	2,3,4,7,8-PECDF	0.679 J	NG/KG	0.5 J	30.36	0.18
DIOX	2,3,7,8-TCDF	0.869	NG/KG	0.812	6.78	0.06
DIOX	TOTAL HPCDD	83.4	NG/KG	69.5	18.18	13.90
DIOX	TOTAL HPCDF	21.4	NG/KG	20.5 J	4.30	0.90
DIOX	TOTAL HXCDD	13 J	NG/KG	12.9 J	0.77	0.10
DIOX	TOTAL PECDD	3.14 J	NG/KG	2.75 J	13.24	0.39
DIOX	TOTAL PECDF	5.11 J	NG/KG	4.09 J	22.17	1.02
DIOX	TOTAL TCDD	1.59	NG/KG	1.52	4.50	0.07

Current RPD Quality Control Limit: 50 %.
Shaded cells indicate RPDs that exceed the applicable quality control limit.

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT Portsmouth	JOB NUMBER 02225
SUBJECT Calculation Check SDG WE29-1	
BASED ON	DRAWING NUMBER
BY J. Kalinyak / CHECKED BY	APPROVED BY / DATE 6/28/11

PAH - benzo(a)anthracene Sample - OU4-SD-M12-111B

$$\frac{177946 \times 0.8 \times 25\,df \times 0.001\,l \times 1000}{88638 \times 0.952 \times 0.03150\,kg \times 0.5654} \simeq 2368\ \mu g/kg$$

Data File: \\target_server\GG\chem\gcms-g.i\G050611.b\G1149.D
Report Date: 09-May-2011 12:00

PAH

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gcms-g.i\G050611.b\G1149.D
Lab Smp Id: SE2074-31DL Client Smp ID: OU4-SD-M12-111B
Inj Date : 06-MAY-2011 16:14 MS Autotune Date: 15-JUN-2004 09:29
Operator : WAS Inst ID: gcms-g.i
Smp Info : SE2074-31DL
Misc Info : WG91313,WG90714,G1032
Comment :
Method : \\target_server\GG\chem\gcms-g.i\G050611.b\gspsim82.m
Meth Date : 09-May-2011 11:48 gcms-g.i Quant Type: ISTD
Cal Date : 29-APR-2011 19:03 Cal File: G1037.D
Als bottle: 13
Dil Factor: 25.00000
Integrator: ~~HP RTE~~ Compound Sublist: ttwe29_ou4.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws*Vi)*(100/(100-M))*1000 * CpndVariabl

Name	Value	Description
DF	25.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Ws	0.03150	Weight of Sample (Kg)
Vi	1.000	Volume injected (uL)
M	43.461	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kgdrywt)	REVIEW
* 7 1,4-Dichlorobenzene-D4	152	8.060	8.060	(1.000)	45186	0.80000		
* 20 Naphthalene-D8	136	10.784	10.773	(1.000)	167437	0.80000		
21 Naphthalene	128	10.833	10.821	(1.004)	29407	0.15871	223(a)	
$ 26 2-Methylnaphthalene-D10	152	12.377	12.354	(0.833)	3602	0.02726	38.3(a)	
* 39 Acenaphthene-D10	164	14.850	14.850	(1.000)	103117	0.80000		
40 Acenaphthene	153	14.933	14.919	(1.006)	60128	0.47264	663(a)	
49 Fluorene	166	16.165	16.149	(1.088)	60944	0.43115	605(a)	
* 59 Phenanthrene-D10	188	18.362	18.362	(1.000)	169773	0.80000		
60 Phenanthrene	178	18.419	18.419	(1.003)	729181	3.52066	4940	
61 Anthracene	178	18.532	18.543	(1.009)	126568	0.60897	855	
64 Fluoranthene	202	21.237	21.247	(1.157)	960718	4.83733	6790	
66 Pyrene	202	21.740	21.751	(0.882)	704299	4.57997	6430	
68 Benzo(a)anthracene	228	24.645	24.645	(0.999)	177946	1.68684	2370	
* 69 Chrysene-D12	240	24.659	24.659	(1.000)	88638	0.80000		
70 Chrysene	228	24.714	24.714	(1.002)	228910	2.12907	2990	
74 Benzo(b)fluoranthene	252	27.044	27.055	(0.972)	134256	2.15807	3030	
75 Benzo(k)fluoranthene	252	27.100	27.111	(0.974)	80107	1.12781	1580(M)	M6
76 Benzo(a)pyrene	252	27.695	27.706	(0.996)	88060	1.64401	2310	WAS 5-9-11
* 77 Perylene-D12	264	27.818	27.829	(1.000)	48374	0.80000		
79 Indeno(1,2,3-cd)pyrene	276	29.986	30.001	(1.078)	32488	0.95959	1350(H)	
80 Dibenzo(a,h)anthracene	278	30.072	30.101	(1.081)	5425	0.15874	223(a)	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

PAH

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: PNS CTO WE29 OU4 SDG No.: WE29-1

Instrument ID: GCMS-G Calibration Date: 05/06/11 Time: 0807

Lab File ID: G1138 Init. Calib. Date(s): 04/29/11 04/29/11

Init. Calib. Times: 1525 1903

GC Column: ZB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Naphthalene	0.8850000	0.8728200	0.8728200	0.01	-1.38	20.00	AVRG	
Dibenzothiophene	0.8940000	0.8921600	0.8921600	0.01	-0.20	20.00	AVRG	
1,1'-Biphenyl	1.5120000	1.3540000	1.3540000	0.01	-10.45	20.00	AVRG	
Acenaphthylene	1.5910000	1.5449000	1.5449000	0.01	-2.90	20.00	AVRG	
Perylene	0.9410000	0.9280300	0.9280300	0.01	-1.38	20.00	AVRG	
Acenaphthene	0.9870000	0.9563600	0.9563600	0.01	-3.10	20.01	AVRG	
Fluorene	1.0960000	1.1230000	1.1230000	0.01	2.46	20.00	AVRG	
Phenanthrene	0.9760000	0.9314800	0.9314800	0.01	-4.56	20.00	AVRG	
Anthracene	0.9790000	0.9918500	0.9918500	0.01	1.31	20.00	AVRG	
Fluoranthene	0.9360000	0.9246400	0.9246400	0.01	-1.21	20.01	AVRG	
Pyrene	1.3880000	1.4534000	1.4534000	0.01	4.71	20.00	AVRG	
Benzo(a)anthracene	0.9520000	0.9283500	0.9283500	0.01	-2.48	20.00	AVRG	
Chrysene	0.9700000	0.9628400	0.9628400	0.01	-0.74	20.00	AVRG	
Benzo(b)fluoranthene	1.0290000	0.8828400	0.8828400	0.01	-14.20	20.00	AVRG	
Benzo(k)fluoranthene	1.1750000	1.2335000	1.2335000	0.01	4.98	20.00	AVRG	
Benzo(a)pyrene	0.8860000	0.8319500	0.8319500	0.01	-6.10	20.01	AVRG	
Indeno(1,2,3-cd)pyrene	0.5600000	0.4191400	0.4191400	0.01	-25.15	20.00	AVRG	<-
Dibenzo(a,h)anthracene	0.5650000	0.5725000	0.5725000	0.01	1.33	20.00	AVRG	
Benzo(g,h,i)perylene	0.7260000	0.6461000	0.6461000	0.01	-11.01	20.00	AVRG	
2-Methylnaphthalene-D10	1.0250000	0.9298400	0.9298400	0.01	-9.28	20.00	AVRG	
Fluorene-D10	1.1260000	1.0000000	1.2024000	0.01	12.60	20.00	LINR	
Pyrene-D10	0.9080000	1.0140000	1.0140000	0.01	11.67	20.00	AVRG	

FORM VII PEST

SAP Worksheet #15 -- Reference Limits for Sediment

(UFP-QAPP Manual Section 2.8.1)

Matrix: Sediment
Analytical Groups: Metals, PAHs, 4,4'-DDT, PCB Congeners, and Dioxins/Furans

Analyte	CAS Number	Screening Level	Screening Level Reference[1]	Project QL Goal	Laboratory Detection Limits[2]	
					QL	MDL
POLYCYLIC AROMATIC HYDROCARBONS (µg/kg)						
1,1-BIPHENYL	**92-52-4**	**17**	**SQuiRTs MS T20**	**5.7**	**20**	**1.1**
ACENAPHTHENE	**83-32-9**	**16**	**SQuiRTs MS ERL**	**5.3**	**20**	**1.5**
ACENAPHTHYLENE	208-96-8	210	OU4 IRG	70	20	1.2
ANTHRACENE	120-12-7	1236	OU4 IRG	412	20	1.2
BENZO(A)ANTHRACENE	56-55-3	261	SQuiRTs MS ERL	87	20	1.9
BENZO(A)PYRENE	50-32-8	430	SQuiRTs MS ERL	143	20	3.3
BENZO(B)FLUORANTHENE	205-99-2	130	SQuiRTs MS T20	43	20	2.4
BENZO(E)PYRENE	192-97-2	-	-	-	20	3.3
BENZO(G,H,I)PERYLENE	191-24-2	67	SQuiRTs MS T20	22	20	2.0
BENZO(K)FLUORANTHENE	207-08-9	70	SQuiRTs MS T20	23	20	3.1
CHRYSENE	218-01-9	384	SQuiRTs MS ERL	128	20	1.7
DIBENZO(A,H)ANTHRACENE	53-70-3	63.4	SQuiRTs MS ERL	21	20	1.8
DIBENZOTHIOPHENE	132-65-0	-	-	-	20	0.47
FLUORANTHENE	206-44-0	600	SQuiRTs MS ERL	200	20	1.8
FLUORENE	86-73-7	500	OU4 IRG	167	20	3.2
INDENO(1,2,3-CD)PYRENE	193-39-5	-	-	-	20	1.9
NAPHTHALENE	91-20-3	160	SQuiRTs MS ERL	53	20	2.6
PERYLENE	198-55-0	74	SQuiRTs MS T20	25	20	0.82
PHENANTHRENE	85-01-8	240	SQuiRTs MS ERL	80	20	1.8
PYRENE	129-00-0	665	SQuiRTs MS ERL	222	20	2.1
METALS (mg/kg)						
ALUMINUM	**7429-90-5**	**18**	**SQuiRTs MS AET**	**6.0**	**30**	**2.9**
ARSENIC	7440-38-2	8.2	SQuiRTs MS ERL	2.7	0.8	0.09
CADMIUM	7440-43-9	1.2	SQuiRTs MS ERL	0.40	1	0.007

Analyte	CAS Number	Screening Level	Screening Level Reference[1]	Project QL Goal	Laboratory Detection Limits[2]	
					QL	MDL
METALS (mg/kg)						
CHROMIUM	7440-47-3	81	SQuiRTs MS ERL	27	1.5	0.1
COPPER	7440-47-3	486	OU4 IRG	162	2.5	0.095
IRON	7439-89-6	22	SQuiRTs MS AET	7.3	10	1.3
LEAD	7439-92-1	426	2x ER-M	142	0.5	0.14
MANGANESE	7439-95-4	260	SQuiRTs MS AET	87	0.5	0.079
MERCURY	7439-97-6	0.15	SQuiRTs MS ERL	0.05	0.04	0.002
NICKEL	7440-02-0	124	OU4 IRG	41	4	0.033
SILVER	**7440-22-4**	**1**	**SQuiRTs MS ERL**	**0.33**	**1.5**	**0.065**
ZINC	7440-66-6	150	SQuiRTs MS ERL	50	2.5	0.12
4,4'-DDT (µg/kg)						
4,4'-DDT	50-29-3	66.4	OU4 PRG	22	3	3
~~PCB CONGENERS~~ (µg/kg)						
PCB-101	37680-73-2	1.26	SQuiRTs MS [3]	0.42	1.0	0.22
PCB-105	3259-81-44	3	Bird TEQ [4]	1	1.0	0.52
PCB-114	74472-37-0	3	Bird TEQ [4]	1	1.0	0.09
PCB-118	31508-00-6	3	Bird TEQ [4]	1	1.0	0.23
PCB-123	65510-44-3	3	Bird TEQ [4]	1	1.0	0.16
PCB-126	**5746-52-88**	**0.75**	**Bird TEQ [4][5]**	**0.25**	**1.0**	**0.16**
PCB-128	38380-07-3	1.26	SQuiRTs MS [3]	0.42	1.0	0.2
PCB-138	35065-28-2	1.26	SQuiRTs MS [3]	0.42	1.0	0.2
PCB-153	35065-27-1	1.26	SQuiRTs MS [3]	0.42	1.0	0.2
PCB-156	38380-08-4	3	Bird TEQ [4]	1	1.0	0.11
PCB-167	52663-72-6	3	Bird TEQ [4]	1	1.0	0.058
PCB-169	32774-16-6	3	Bird TEQ [4]	1	1.0	0.13
PCB-170	35065-30-6	1.26	SQuiRTs MS [3]	0.42	1.0	0.2
PCB-18	37680-65-2	1.26	SQuiRTs MS [3]	0.42	1.0	0.28
PCB-180	35065-29-3	1.26	SQuiRTs MS [3]	0.42	1.0	0.19
PCB-187	52663-68-0	1.26	SQuiRTs MS [3]	0.42	1.0	0.55
PCB-189	39635-31-9	3	Bird TEQ [4]	1	1.0	0.069

Analyte	CAS Number	Screening Level	Screening Level Reference[1]	Project QL Goal	Laboratory Detection Limits[2]	
					QL	MDL
PCB-195	52663-78-2	1.26	SQuiRTs MS [3]	0.42	1.0	0.19
PCB-157	69782-90-7	3	Bird TEQ [4]	1	1.0	0.08
PCB-206	40186-72-9	1.26	SQuiRTs MS [3]	0.42	1.0	0.17
PCB-209	2051-24-3	1.26	SQuiRTs MS [3]	0.42	1.0	0.23
PCB-28	7012-37-5	1.26	SQuiRTs MS [3]	0.42	1.0	0.66
PCB-44	41464-39-5	1.26	SQuiRTs MS [3]	0.42	1.0	0.21
PCB-52	35693-99-3	1.26	SQuiRTs MS [3]	0.42	1.0	0.23
PCB-66	32598-10-0	1.26	SQuiRTs MS [3]	0.42	1.0	0.23
PCB-77	32598-13-3	1.0	Bird TEQ [4]	0.33	1.0	0.20
PCB-8	34883-43-7	1.26	SQuiRTs MS [3]	0.42	1.0	0.26
PCB-81	**70362-50-4**	**0.75**	**Bird TEQ [4][5]**	**0.25**	**1.0**	**0.25**
TRANS-NONACHLOR	39765-80-5	3.99	OU4 PRG	1.33	1.7	0.08
~~Dioxins/Furans (ng/kg)~~						
2,3,7,8-TCDD	1746-01-6	1	Bird TEQ [4]	0.33	0.5	0.105
2,3,7,8-TCDF	51207-31-9	1	Bird TEQ [4]	4	0.5	0.112
1,2,3,7,8-PECDD	**40321-76-4**	**1**	**Bird TEQ [4]**	**0.33**	**2.5**	**0.436**
1,2,3,7,8-PECDF	57117-41-6	12	Bird TEQ [4]	14	2.5	0.152
2,3,4,7,8-PECDF	**57117-31-4**	**1**	**Bird TEQ [4]**	**1.3**	**2.5**	**0.207**
1,2,3,4,7,8-HXCDD	39227-28-6	25	Bird TEQ [4]	4	2.5	0.204
1,2,3,6,7,8-HXCDD	57653-85-7	120	Bird TEQ [4]	4	2.5	0.357
1,2,3,7,8,9-HXCDD	19408-74-3	12	Bird TEQ [4]	4	2.5	0.146
1,2,3,4,7,8-HXCDF	70648-26-9	12	Bird TEQ [4]	4	2.5	0.167
1,2,3,6,7,8-HXCDF	57117-44-9	12	Bird TEQ [4]	4	2.5	0.192
1,2,3,7,8,9-HXCDF	72918-21-9	12	Bird TEQ [4]	4	2.5	0.242
2,3,4,6,7,8-HXCDF	60851-34-5	12	Bird TEQ [4]	4	2.5	0.326
1,2,3,4,6,7,8-HPCDD	35822-46-9	1200	Bird TEQ [4]	40	2.5	0.270
1,2,3,4,6,7,8-HPCDF	67562-39-4	120	Bird TEQ [4]	40	2.5	0.326
1,2,3,4,7,8,9-HPCDF	55673-89-7	120	Bird TEQ [4]	40	2.5	0.139

Analyte	CAS Number	Screening Level	Screening Level Reference[1]	Project QL Goal	Laboratory Detection Limits[2]	
					QL	MDL
Dioxins/Furans (ng/kg)						
OCDD	3268-87-9	12000	Bird TEQ [4]	1400	5	0.382
OCDF	39001-02-0	12000	Bird TEQ [4]	1400	5	0.814

1 Screening Level References

Bird TEQ: Bird Toxicity Equivalent Quotient screening level of 0.21 µg/kg presented in Table 5-2 of the Rounds 1 Through 10 Interim Offshore Monitoring Program Report for OU4 (Tt, February 2010).
2x ER-M: The lead Effect Range–Median screening value multiplied by 2.
OU4 IRG: Operable Unit 4 Interim Remediation Goal value.
PRG: Preliminary Remediation Goal (Tt, November 2001).
SQuiRTs MS: National Oceanic and Atmospheric Administration Screening Quick References Tables Marine Sediment values. AET = Apparent Effects Threshold ; ER-L = Effect Range-Low; T20 = 20-percent effect level. http://response.restoration.noaa.gov/book_shelf/122_NEW-SQuiRTs.pdf.

2 Laboratory detection limits were provided by Katahdin Analytical Services, Inc., in January 2010 for the Round 11 sampling event and will be updated based on the Katahdin Analytical Services quarterly method detection limit (MDL) study that is current at the time of the Round 11 sampling event. Laboratory detection limits must be updated with each subsequent round of sampling that occurs during the OU4 Interim Offshore Monitoring Program to reflect the laboratory's most recent detection limits.

3 Calculated based on a total PCB congeners screening level (ER-L) of 22.7 µg/kg. Total PCB congener values were calculated by summing the following 18 PCB congeners, substituting one-half of the detection limits for non-detects: PCB-101/90, -105, -118, -128, -138/160, -153/132, -170/190, -18/17, -180, -187, -195/208, -206, -209, -28, -44, -52, -66, and -8/5, and multiplying the value by 2.0 because previous studies indicate that the 18 NOAA PCBs typically account for about one-half of the PCB concentration in a sample (NOAA, 1989).

4 Calculated based on the bird TEQ screening level of 0.21 µg/kg presented in Table 5-2 of the Rounds 1 Through 10 Interim Offshore Monitoring Program Report for OU4 (Tt, February 2010). Dioxins and furans were evaluated using Toxicity Equivalent Factors (TEFs) that relate the toxicity of various congeners to the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), as specified in U.S. EPA's Interim Procedures for Estimating Risks Associated with Exposure to Mixtures of Chlorinated Dibenzo-p-Dioxins and Dibenzofurans (CDD and CDFs) 1989 Update. The World Health Organization (WHO) TEF values published in TEFs for PCBs, PCDDs, PCDFs for Humans and Wildlife (Van den Berg, et al., 2006) were used to calculate TEQ values for each congener. The concentration of each dioxin/furan was multiplied by the associated TEF to produce a TEQ value for each dioxin/furan congener. The individual TEQ values for all dioxins/furan were summed for each sample for an overall TEQ value for that sample. If any congeners were reported as non-detected in a sample, two total TEQ values were developed for that sample. In one case, the TEQ value was the sum of the toxic equivalent values of dioxin/furan congeners using zero for non-detects [i.e., TEQ BIRD (using bird TEFs)]. In the other case, the TEQ value was the sum of the toxic equivalent values using one-half the detection limit for non-detects [i.e.,TEQ BIRD HALFND (using bird TEFs)].

5 The project team is aware that the calculated PCB screening level is greater than the laboratory's lowest listed detection limit; however, this PCB compound will be used in combination with other PCB compounds to calculate a total PCB concentration that will be compared to a total PCB screening value. Individual PCB congener screening values were calculated and presented as listed in this table so that the total PCB concentration calculated will not exceed the total PCB screening value if all of the PCB congeners contributing to the total PCB calculation are reported as non-detected.

Bold rows indicate that the screening level is less than the corresponding QL but greater than the corresponding MDL.
Bold and shaded rows indicate that the screening level is less than the corresponding QL and the MDL.

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**D. WITT**	**DATE:**	**JULY 12, 2011**
FROM:	**TERRI L. SOLOMON**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SELECT METALS, TOTAL SOLIDS**
CTO WE29 PORTSMOUTH
SAMPLE DELIVERY GROUP (SDG) – WE29-1

SAMPLES: 2/Aqueous

OU4-RB-042011-01 OU4-SB-042011-01

32/Sediment

OU4-FD-041911-02	OU4-SD-FD-041911-03	OU4-SD-M03-111B
OU4-SD-M03-211B	OU4-SD-M03-311B	OU4-SD-M04-111B
OU4-SD-M04-211B	OU4-SD-M04-311B	OU4-SD-M05-111B
OU4-SD-M05-211B	OU4-SD-M05-311B	OU4-SD-M05-411B
OU4-SD-M07-111B	OU4-SD-M07-211B	OU4-SD-M07-311B
OU4-SD-M08-111B	OU4-SD-M08-211B	OU4-SD-M08-311B
OU4-SD-M09-111B	OU4-SD-M09-211B	OU4-SD-M09-311B
OU4-SD-M11-311B	OU4-SD-M12-111B	OU4-SD-M12-211B
OU4-SD-M12-311B	OU4-SD-M12-411B	OU4-SD-M12-511B
OU4-SD-M12-611B	OU4-FD-041911-01	OU4-SD-M01-111B
OU4-SD-M01-211B	OU4-SD-M01-311B	

Overview

The sample set for Portsmouth, CTO WE29, SDG WE29-1, consists of thirty-two (32) sediment environmental samples and two (2) field blanks. Three (3) field duplicate pairs (OU4-SD-M05-111B / OU4-FD-041911-02, OU4-SD-M07-111B / OU4-SD-FD-041911-03 and OU4-SD-M01-111B / OU4-FD-041911-01) were included within this SDG.

Samples OU4-RB-042011-01, OU4-SB-042011-01, OU4-FD-041911-02, OU4-SD-FD-041911-03, OU4-SD-M05-111B, OU4-SD-M05-211B, OU4-SD-M05-311B, OU4-SD-M05-411B, OU4-SD-07-111B, OU4-SD-M07-211B, OU4-SD-07-311B, OU4-SD-M08-111B, OU4-SD-M08-211B, OU4-SD-M08-311B, OU4-SD-M09-111B, OU4-SD-M09-211B and OU4-SD-M09-311B were analyzed for select metals including aluminum, arsenic, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, silver and zinc. Samples OU4-SD-M03-111B, OU4-SD-M03-211B, OU4-SD-M03-311B, OU4-SD-M04-111B, OU4-SD-M04-211B and OU4-SD-M04-311B were analyzed for copper. Sample OU4-SD-M11-311B was analyzed for copper, lead and nickel. Samples OU4-SD-M12-111B, OU4-SD-M12-211B, OU4-SD-M12-311B, OU4-SD-M12-411B, OU4-SD-M12-511B and OU4-SD-M12-611B were analyzed for lead. All sediment samples were analyzed for total solids. The samples were collected by Tetra Tech on April 18, 19, 20 and 21, 2011 and analyzed by Katahdin Analytical Services under Naval Facilities Engineering Service Center (NFESC) Quality Assurance / Quality Control (QA/QC) criteria. Metals analyses were conducted using SW-846 method 6010. Mercury analyses were conducted using SW-846 method 7470A. Total solids analyses were conducted using ASTM D2216-98.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Initial and Continuing Calibrations
  • Laboratory Method / Preparation Blanks
  • ICP Interference Analysis
* • Laboratory Control Sample Recoveries
  • Matrix Spike Recoveries
* • Laboratory Duplicate Results
* • ICP Serial Dilution Results
* • Field Duplicate Results
* • Detection Limits
* • Analyte Quantitation

  * - All quality control criteria were met for this parameter.

Qualified (if applicable) analytical results are summarized in Appendix A. Results as reported by the laboratory are presented in Appendix B. Appendix C contains Region I worksheets. Appendix D contains the documentation to support the findings as discussed in this validation report.

ICP Interference Analysis

The interfering analyte iron was present in samples OU4-FD-041911-02, OU4-SD-FD-041911-03, OU4-SD-M05-111B, OU4-SD-M05-211B, OU4-SD-M05-311B, OU4-SD-M05-411B, OU4-SD-07-111B, OU4-SD-M07-211B, OU4-SD-07-311B, OU4-SD-M08-111B, OU4-SD-M08-211B, OU4-SD-M08-311B, OU4-SD-M09-111B, OU4-SD-M09-211B and OU4-SD-M09-311B at a concentration that was greater than 50% of the iron concentration in the Interference Check Sample (ICS) solution. Several analytes, namely, arsenic, cadmium, chromium, copper, lead, nickel and silver were present in the ICS solution at a concentration that exceeded the absolute value of the Method Detection Limit (MDL). Interference effects exist for cadmium and silver in the affected samples. The positive results reported for cadmium and silver were qualified as estimated, "J".

Matrix Spike Results

The matrix spike recoveries for sample OU4-SD-M08-111B (preparation batch BD25ICS1) for copper, manganese and zinc were greater than the quality control limits. The following samples were affected: OU4-FD-041911-02, OU4-SD-FD-041911-03, OU4-SD-M05-111B, OU4-SD-M05-311B, OU4-SD-M05-411B, OU4-SD-07-111B, OU4-SD-M08-111B, OU4-SD-M08-311B, OU4-SD-M09-111B and OU4-SD-M11-311B. The positive results reported for copper, manganese and zinc were qualified as estimated, "J".

Notes

The positive results reported for samples OU4-SD-M09-111B, OU4-SD-M09-211B and OU4-SD-M09-311B were qualified as estimated, "J", as a result of percent solids < 30%.

Positive results less than the limit of quantitation (LOQ) but greater than the method detection limit (MDL) were qualified as estimated, "J".

Nondetected results were reported to the limit of detection (LOD).

The chain of custody incorrectly identified sample 044-SD-M03-111B. The actual sample ID on the bottles, according to the lab sample condition report, is 044-SD-M08-111B. Correct ID on the bottles was confirmed by the project manager.

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Chromium[2]	0.032 mg/kg	0.16 mg/kg
Chromium[3]	0.036 mg/kg	0.18 mg/kg
Copper[1]	1.182 ug/L	0.591 mg/kg
Iron[2]	2.741 mg/kg	13.705 mg/kg
Iron[3]	1.976 mg/kg	9.88 mg/kg
Iron[4]	6.577 ug/L	32.885 ug/L
Zinc[1]	0.777 ug/L	0.301 mg/kg

(1) Maximum concentration present in a laboratory blank affecting samples analyzed on 04/26/2011.
(2) Maximum concentration present in a preparation blank affecting samples OU4-SD-M05-211B, OU4-SD-M07-211B, OU4-SD-07-311B, OU4-SD-M08-211B, OU4-SD-M09-211B and OU4-SD-M09-311B (batch 025ICS0).
(3) Maximum concentration present in a preparation blank affecting samples OU4-FD-041911-02, OU4-SD-FD-041911-03, OU4-SD-M05-111B, OU4-SD-M05-311B, OU4-SD-M05-411B, OU4-SD-07-111B, OU4-SD-M08-111B, OU4-SD-M08-311B and OU4-SD-M09-111B (batch B025ICS1).
(4) Maximum concentration present in a preparation blank affecting samples OU4-RB-042011-01 and OU4-SB-042011-01.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No validation actions were warranted as all sample results were greater than the action level. Field blanks are not qualified for laboratory blank contamination.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: The interfering analyte iron was present in several samples. The matrix spike recoveries for sample OU4-SD-M08-111B (preparation batch BD25ICS1) for copper, manganese and zinc were greater than the quality control limits. Several sample results were qualified as a result of percent solids < 30%. Positive results less than the LOQ but greater than the MDL were qualified as estimated.

The data for these analyses were reviewed with reference to the EPA Region I, "National Functional Guidelines for Inorganic Review", November 2008 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", April 2009.

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

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Environmental Scientist

Tetra Tech NUS
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Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C – Region I Worksheets
4. Appendix D – Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS-GFAA MSA's r < 0.995 / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
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 (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DOT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: 02225	NSAMPLE	OU4-RB-042011-01			OU4-SB-042011-01		
SDG: WE29-1	LAB_ID	SE2074-032			SE2074-033		
FRACTION: M	SAMP_DATE	4/20/2011			4/20/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		100	U		100	U	
ARSENIC		5	U		5	U	
CADMIUM		3	U		3	U	
CHROMIUM		4	U		4	U	
COPPER		10	U		0.67	J	P
IRON		80	U		80	U	
LEAD		4	U		4	U	
MANGANESE		4	U		4	U	
MERCURY		0.1	U		0.1	U	
NICKEL		4	U		4	U	
SILVER		4	U		4	U	
ZINC		10	U		10	U	

PROJ_NO: 02225	NSAMPLE	OU4-FD-041911-02			OU4-SD-FD-041911-03			OU4-SD-M03-111B			OU4-SD-M03-211B		
SDG: WE29-1	LAB_ID	SE2074-025			SE2074-028			SE2074-004			SE2074-003		
FRACTION: M	SAMP_DATE	4/19/2011			4/19/2011			4/18/2011			4/18/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	53.8			65.4			49.4			57.0		
	DUP_OF	OU4-SD-M05-111B			OU4-SD-M07-111B								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		13700			8800								
ARSENIC		26.4			8.1								
CADMIUM		0.77	J	KP	0.18	J	KP						
CHROMIUM		51.6			32.8								
COPPER		272	J	D	19.8	J	D	127			551		
IRON		24400			13900								
LEAD		250			18.2								
MANGANESE		249	J	D	127	J	D						
MERCURY		0.65			0.05								
NICKEL		37.1			17.9								
SILVER		0.89	J	KP	0.16	J	KP						
ZINC		282	J	D	57	J	D						

PROJ_NO: 02225	NSAMPLE	OU4-SD-M03-311B			OU4-SD-M04-111B			OU4-SD-M04-211B			OU4-SD-M04-311B		
SDG: WE29-1	LAB_ID	SE2074-001			SE2074-005			SE2074-002			SE2074-006		
FRACTION: M	SAMP_DATE	4/18/2011			4/18/2011			4/18/2011			4/18/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	44.9			49.4			44.7			79.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM													
ARSENIC													
CADMIUM													
CHROMIUM													
COPPER		23.3			331			36.2			76.5		
IRON													
LEAD													
MANGANESE													
MERCURY													
NICKEL													
SILVER													
ZINC													

PROJ_NO: 02225	NSAMPLE	OU4-SD-M05-111B			OU4-SD-M05-211B			OU4-SD-M05-311B			OU4-SD-M05-411B		
SDG: WE29-1	LAB_ID	SE2074-022			SE2074-021			SE2074-024			SE2074-023		
FRACTION: M	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	47.5			39.9			51.4			39.8		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		14500			14100			10200			13700		
ARSENIC		28.4			16.2			8.2			13.8		
CADMIUM		0.79	J	KP	0.32	J	KP	0.32	J	KP	0.5	J	KP
CHROMIUM		55.7			58.2			40.6			52.1		
COPPER		296	J	D	72.1			13.1	J	D	57	J	D
IRON		27000			23100			15000			20500		
LEAD		270			78.1			21.6			57.5		
MANGANESE		267	J	D	248			153	J	D	219	J	D
MERCURY		0.74			0.38			0.1			0.27		
NICKEL		40.1			22.6			20.9			20.9		
SILVER		0.94	J	KP	0.34	J	KP	0.26	J	KP	0.3	J	KP
ZINC		304	J	D	123			64.4	J	D	111	J	D

PROJ_NO: 02225	NSAMPLE	OU4-SD-M07-111B			OU4-SD-M07-211B			OU4-SD-M07-311B			OU4-SD-M08-111B		
SDG: WE29-1	LAB_ID	SE2074-026			SE2074-014			SE2074-015			SE2074-029		
FRACTION: M	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	65.5			33.7			34.7			67.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		9530			14900			14700			8330		
ARSENIC		8.8			13.5			12.6			13.2		
CADMIUM		0.23	J	KP	0.79	J	KP	0.63	J	KP	0.19	J	KP
CHROMIUM		31.9			72.6			57.5			28.9		
COPPER		15.7	J	D	27.7			20.1			43.4	J	D
IRON		15200			23400			20800			15200		
LEAD		17.3			41.7			31.5			39.7		
MANGANESE		131	J	D	235			234			129	J	D
MERCURY		0.05			0.28			0.16			0.09		
NICKEL		18.8			21			19.3			15.2		
SILVER		0.16	J	KP	0.64	J	KP	0.57	J	KP	0.18	J	KP
ZINC		54.9	J	D	101			84.4			86.3	J	D

PROJ_NO: 02225	NSAMPLE	OU4-SD-M08-211B			OU4-SD-M08-311B			OU4-SD-M09-111B			OU4-SD-M09-211B		
SDG: WE29-1	LAB_ID	SE2074-013			SE2074-027			SE2074-030			SE2074-011		
FRACTION: M	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	52.8			68.7			27.9			27.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		12700			7250			18400	J	Y	16800	J	Y
ARSENIC		16.2			14.4			18	J	Y	16.9	J	Y
CADMIUM		0.35	J	KP	0.1	J	KP	0.53	J	KPY	0.85	J	KPY
CHROMIUM		52.3			22.2			79.6	J	Y	86	J	Y
COPPER		113			26.4	J	D	112	J	DY	93.2	J	Y
IRON		21300			13800			28000	J	Y	27100	J	Y
LEAD		102			25.4			78.1	J	Y	133	J	Y
MANGANESE		197			123	J	D	284	J	DY	284	J	Y
MERCURY		0.33			0.06			0.28	J	Y	0.45	J	Y
NICKEL		26.9			10.1			34	J	Y	31.8	J	Y
SILVER		0.43	J	KP	0.16	J	KP	0.73	J	KPY	0.52	J	KPY
ZINC		139			47.7	J	D	149	J	DY	173	J	Y

PROJ_NO: 02225	NSAMPLE	OU4-SD-M09-311B			OU4-SD-M11-311B			OU4-SD-M12-111B			OU4-SD-M12-211B		
SDG: WE29-1	LAB_ID	SE2074-012			SE2079-001			SE2074-031			SE2074-020		
FRACTION: M	SAMP_DATE	4/19/2011			4/21/2011			4/20/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	26.6			69.2			56.5			32.3		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM		18400	J	Y									
ARSENIC		17.8	J	Y									
CADMIUM		0.75	J	KPY									
CHROMIUM		88.8	J	Y									
COPPER		99	J	Y	88.4	J	D						
IRON		28500	J	Y									
LEAD		93.4	J	Y	56.5			199			139		
MANGANESE		301	J	Y									
MERCURY		0.46	J	Y									
NICKEL		35.1	J	Y	34.9								
SILVER		0.56	J	KPY									
ZINC		162	J	Y									

PROJ_NO: 02225	NSAMPLE	OU4-SD-M12-311B			OU4-SD-M12-411B			OU4-SD-M12-511B			OU4-SD-M12-611B		
SDG: WE29-1	LAB_ID	SE2074-019			SE2074-017			SE2074-016			SE2074-018		
FRACTION: M	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	36.5			56.2			54.8			50.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ALUMINUM													
ARSENIC													
CADMIUM													
CHROMIUM													
COPPER													
IRON													
LEAD		97			344			8730			346		
MANGANESE													
MERCURY													
NICKEL													
SILVER													
ZINC													

PROJ_NO: 02225	NSAMPLE	OU4-FD-041911-01			OU4-FD-041911-02			OU4-SD-FD-041911-03			OU4-SD-M01-111B		
SDG: WE29-1	LAB_ID	SE2074-10			SE2074-25			SE2074-28			SE2074-7		
FRACTION: MISC	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	78.9			53.8			65.4			84.7		
	DUP_OF	OU4-SD-M01-111B			OU4-SD-M05-111B			OU4-SD-M07-111B					
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		79			54			65			85		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M01-211B			OU4-SD-M01-311B			OU4-SD-M03-111B			OU4-SD-M03-211B		
SDG: WE29-1	LAB_ID	SE2074-8			SE2074-9			SE2074-4			SE2074-3		
FRACTION: MISC	SAMP_DATE	4/19/2011			4/19/2011			4/18/2011			4/18/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	68.6			62.5			49.4			57.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		69			62			49			57		

PROJ_NO: 02225 SDG: WE29-1 FRACTION: MISC MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M03-311B			OU4-SD-M04-111B			OU4-SD-M04-211B			OU4-SD-M04-311B		
	LAB_ID	SE2074-1			SE2074-5			SE2074-2			SE2074-6		
	SAMP_DATE	4/18/2011			4/18/2011			4/18/2011			4/18/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	44.9			49.4			44.7			79.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		45			49			45			79		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M05-111B			OU4-SD-M05-211B			OU4-SD-M05-311B			OU4-SD-M05-411B		
SDG: WE29-1	LAB_ID	SE2074-22			SE2074-21			SE2074-24			SE2074-23		
FRACTION: MISC	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	47.5			39.9			51.4			39.8		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		48			40			51			40		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M07-111B			OU4-SD-M07-211B			OU4-SD-M07-311B			OU4-SD-M08-111B		
SDG: WE29-1	LAB_ID	SE2074-26			SE2074-14			SE2074-15			SE2074-29		
FRACTION: MISC	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	65.5			33.7			34.7			67.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		65			34			35			68		

PROJ_NO: 02225 SDG: WE29-1 FRACTION: MISC MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M08-211B			OU4-SD-M08-311B			OU4-SD-M09-111B			OU4-SD-M09-211B		
	LAB_ID	SE2074-13			SE2074-27			SE2074-30			SE2074-11		
	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	52.8			68.7			27.9			27.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		53			69			28			28		

PROJ_NO: 02225	NSAMPLE	OU4-SD-M09-311B			OU4-SD-M11-311B			OU4-SD-M12-111B			OU4-SD-M12-211B		
SDG: WE29-1	LAB_ID	SE2074-12			SE2079-1			SE2074-31			SE2074-20		
FRACTION: MISC	SAMP_DATE	4/19/2011			4/21/2011			4/20/2011			4/19/2011		
MEDIA: SEDIMENT	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	26.6			69.2			56.5			32.3		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		26			69			56			32		

PROJ_NO: 02225 SDG: WE29-1 FRACTION: MISC MEDIA: SEDIMENT	NSAMPLE	OU4-SD-M12-311B			OU4-SD-M12-411B			OU4-SD-M12-511B			OU4-SD-M12-611B		
	LAB_ID	SE2074-19			SE2074-17			SE2074-16			SE2074-18		
	SAMP_DATE	4/19/2011			4/19/2011			4/19/2011			4/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	%			%			%			%		
	PCT_SOLIDS	36.5			56.2			54.8			50.6		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
TOTAL SOLIDS		36			56			55			50		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-RB-042011-01

Matrix: WATER **SDG Name:** WE29-1

Percent Solids: 0.00 **Lab Sample ID:** SE2074-032

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	100	U		P	1	300	14.80	100
7440-38-2	ARSENIC, TOTAL	5.0	U		P	1	8.0	1.43	5.0
7440-43-9	CADMIUM, TOTAL	3.0	U		P	1	10	0.05	3.0
7440-47-3	CHROMIUM, TOTAL	4.0	U		P	1	15	0.36	4.0
7440-50-8	COPPER, TOTAL	10	U		P	1	25	0.63	10
7439-89-6	IRON, TOTAL	80	U		P	1	100	5.42	80
7439-92-1	LEAD, TOTAL	4.0	U		P	1	5.0	1.07	4.0
7439-96-5	MANGANESE, TOTAL	4.0	U		P	1	5.0	1.06	4.0
7439-97-6	MERCURY, TOTAL	0.10	U		CV	1	0.20	0.01	0.10
7440-02-0	NICKEL, TOTAL	4.0	U		P	1	40	0.28	4.0
7440-22-4	SILVER, TOTAL	4.0	U		P	1	15	0.27	4.0
7440-66-6	ZINC, TOTAL	10	U		P	1	25	0.72	10

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SB-042011-01

Matrix: WATER **SDG Name:** WE29-1

Percent Solids: 0.00 **Lab Sample ID:** SE2074-033

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	100	U		P	1	300	14.80	100
7440-38-2	ARSENIC, TOTAL	5.0	U		P	1	8.0	1.43	5.0
7440-43-9	CADMIUM, TOTAL	3.0	U		P	1	10	0.05	3.0
7440-47-3	CHROMIUM, TOTAL	4.0	U		P	1	15	0.36	4.0
7440-50-8	COPPER, TOTAL	0.67	J		P	1	25	0.63	10
7439-89-6	IRON, TOTAL	80	U		P	1	100	5.42	80
7439-92-1	LEAD, TOTAL	4.0	U		P	1	5.0	1.07	4.0
7439-96-5	MANGANESE, TOTAL	4.0	U		P	1	5.0	1.06	4.0
7439-97-6	MERCURY, TOTAL	0.10	U		CV	1	0.20	0.01	0.10
7440-02-0	NICKEL, TOTAL	4.0	U		P	1	40	0.28	4.0
7440-22-4	SILVER, TOTAL	4.0	U		P	1	15	0.27	4.0
7440-66-6	ZINC, TOTAL	10	U		P	1	25	0.72	10

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-FD-041911-02

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 53.8 **Lab Sample ID:** SE2074-025

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7429-90-5	ALUMINUM, TOTAL	13700			P	1	24	0.56	7.9
7440-38-2	ARSENIC, TOTAL	26.4			P	2	1.2	0.11	0.79
7440-43-9	CADMIUM, TOTAL	0.77	J		P	2	1.6	0.01	0.47
7440-47-3	CHROMIUM, TOTAL	51.6			P	2	2.4	0.04	0.63
7440-50-8	COPPER, TOTAL	272		N	P	2	3.9	0.25	1.6
7439-89-6	IRON, TOTAL	24400			P	2	16	2.23	12
7439-92-1	LEAD, TOTAL	250			P	2	0.79	0.14	0.63
7439-96-5	MANGANESE, TOTAL	249		N	P	2	0.79	0.25	0.63
7439-97-6	MERCURY, TOTAL	0.65		N	CV	1	0.060	0.009	0.030
7440-02-0	NICKEL, TOTAL	37.1			P	2	6.3	0.07	0.63
7440-22-4	SILVER, TOTAL	0.89	J		P	2	2.4	0.04	0.63
7440-66-6	ZINC, TOTAL	282		N	P	1	2.0	0.13	0.79

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-FD-041911-03

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 65.4 **Lab Sample ID:** SE2074-028

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7429-90-5	ALUMINUM, TOTAL	8800			P	1	25	0.59	8.3
7440-38-2	ARSENIC, TOTAL	8.1			P	1	0.66	0.06	0.42
7440-43-9	CADMIUM, TOTAL	0.18	J		P	1	0.83	0.007	0.25
7440-47-3	CHROMIUM, TOTAL	32.8			P	1	1.2	0.02	0.33
7440-50-8	COPPER, TOTAL	19.8		N	P	1	2.1	0.13	0.83
7439-89-6	IRON, TOTAL	13900			P	1	8.3	1.18	6.6
7439-92-1	LEAD, TOTAL	18.2			P	1	0.42	0.07	0.33
7439-96-5	MANGANESE, TOTAL	127		N	P	1	0.42	0.13	0.33
7439-97-6	MERCURY, TOTAL	0.05		N	CV	1	0.039	0.006	0.020
7440-02-0	NICKEL, TOTAL	17.9			P	1	3.3	0.04	0.33
7440-22-4	SILVER, TOTAL	0.16	J		P	1	1.2	0.02	0.33
7440-66-6	ZINC, TOTAL	57.0		N	P	1	2.1	0.14	0.83

Bottle ID: A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M03-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 49.4 **Lab Sample ID:** SE2074-004

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7440-50-8	COPPER, TOTAL	127			P	1	2.4	0.15	0.94

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M03-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 57.0 **Lab Sample ID:** SE2074-003

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7440-50-8	COPPER, TOTAL	551			P	5	12	0.74	4.7

Bottle ID: B

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M03-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 44.9 **Lab Sample ID:** SE2074-001

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7440-50-8	COPPER, TOTAL	23.3			P	1	3.1	0.19	1.2

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M04-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 49.4 **Lab Sample ID:** SE2074-005

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7440-50-8	COPPER, TOTAL	331			P	1	2.7	0.17	1.1

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M04-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 44.7 **Lab Sample ID:** SE2074-002

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7440-50-8	COPPER, TOTAL	36.2			P	1	3.0	0.19	1.2

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M04-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 79.0 **Lab Sample ID:** SE2074-006

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7440-50-8	COPPER, TOTAL	76.5			P	1	2.1	0.13	0.85

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M05-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 47.5 **Lab Sample ID:** SE2074-022

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7429-90-5	ALUMINUM, TOTAL	14500			P	1	25	0.60	8.4
7440-38-2	ARSENIC, TOTAL	28.4			P	2	1.4	0.11	0.84
7440-43-9	CADMIUM, TOTAL	0.79	J		P	2	1.7	0.01	0.51
7440-47-3	CHROMIUM, TOTAL	55.7			P	2	2.5	0.04	0.68
7440-50-8	COPPER, TOTAL	296		N	P	2	4.2	0.26	1.7
7439-89-6	IRON, TOTAL	27000			P	2	17	2.40	14
7439-92-1	LEAD, TOTAL	270			P	2	0.84	0.15	0.68
7439-96-5	MANGANESE, TOTAL	267		N	P	2	0.84	0.27	0.68
7439-97-6	MERCURY, TOTAL	0.74		N	CV	1	0.061	0.009	0.031
7440-02-0	NICKEL, TOTAL	40.1			P	2	6.8	0.07	0.68
7440-22-4	SILVER, TOTAL	0.94	J		P	2	2.5	0.05	0.68
7440-66-6	ZINC, TOTAL	304		N	P	1	2.1	0.14	0.84

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M05-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 39.9 **Lab Sample ID:** SE2074-021

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	14100			P	1	26	0.61	8.6
7440-38-2	ARSENIC, TOTAL	16.2			P	2	1.4	0.12	0.86
7440-43-9	CADMIUM, TOTAL	0.32	J		P	2	1.7	0.01	0.52
7440-47-3	CHROMIUM, TOTAL	58.2			P	2	2.6	0.04	0.69
7440-50-8	COPPER, TOTAL	72.1			P	2	4.3	0.27	1.7
7439-89-6	IRON, TOTAL	23100			P	2	17	2.44	14
7439-92-1	LEAD, TOTAL	78.1			P	2	0.86	0.15	0.69
7439-96-5	MANGANESE, TOTAL	248			P	2	0.86	0.28	0.69
7439-97-6	MERCURY, TOTAL	0.38		N	CV	1	0.083	0.01	0.042
7440-02-0	NICKEL, TOTAL	22.6			P	2	6.9	0.08	0.69
7440-22-4	SILVER, TOTAL	0.34	J		P	2	2.6	0.05	0.69
7440-66-6	ZINC, TOTAL	123		*	P	1	2.2	0.14	0.86

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M05-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 51.4 **Lab Sample ID:** SE2074-024

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	10200			P	1	26	0.63	8.8
7440-38-2	ARSENIC, TOTAL	8.2			P	1	0.71	0.06	0.44
7440-43-9	CADMIUM, TOTAL	0.32	J		P	1	0.88	0.007	0.26
7440-47-3	CHROMIUM, TOTAL	40.6			P	1	1.3	0.02	0.35
7440-50-8	COPPER, TOTAL	13.1		N	P	1	2.2	0.14	0.88
7439-89-6	IRON, TOTAL	15000			P	1	8.8	1.26	7.1
7439-92-1	LEAD, TOTAL	21.6			P	1	0.44	0.08	0.35
7439-96-5	MANGANESE, TOTAL	153		N	P	1	0.44	0.14	0.35
7439-97-6	MERCURY, TOTAL	0.1		N	CV	1	0.064	0.010	0.032
7440-02-0	NICKEL, TOTAL	20.9			P	1	3.5	0.04	0.35
7440-22-4	SILVER, TOTAL	0.26	J		P	1	1.3	0.02	0.35
7440-66-6	ZINC, TOTAL	64.4		N	P	1	2.2	0.15	0.88

Bottle ID: B

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M05-411B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 39.8 **Lab Sample ID:** SE2074-023

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	13700			P	1	25	0.60	8.5
7440-38-2	ARSENIC, TOTAL	13.8			P	1	0.68	0.06	0.42
7440-43-9	CADMIUM, TOTAL	0.50	J		P	1	0.85	0.007	0.25
7440-47-3	CHROMIUM, TOTAL	52.1			P	1	1.3	0.02	0.34
7440-50-8	COPPER, TOTAL	57.0		N	P	1	2.1	0.13	0.85
7439-89-6	IRON, TOTAL	20500			P	1	8.5	1.20	6.8
7439-92-1	LEAD, TOTAL	57.5			P	1	0.42	0.07	0.34
7439-96-5	MANGANESE, TOTAL	219		N	P	1	0.42	0.14	0.34
7439-97-6	MERCURY, TOTAL	0.27		N	CV	1	0.068	0.01	0.035
7440-02-0	NICKEL, TOTAL	20.9			P	1	3.4	0.04	0.34
7440-22-4	SILVER, TOTAL	0.30	J		P	1	1.3	0.02	0.34
7440-66-6	ZINC, TOTAL	111		N	P	1	2.1	0.14	0.85

Bottle ID: B

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M07-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 65.5 **Lab Sample ID:** SE2074-026

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	9530			P	1	24	0.57	8.1
7440-38-2	ARSENIC, TOTAL	8.8			P	1	0.65	0.05	0.40
7440-43-9	CADMIUM, TOTAL	0.23	J		P	1	0.81	0.006	0.24
7440-47-3	CHROMIUM, TOTAL	31.9			P	1	1.2	0.02	0.32
7440-50-8	COPPER, TOTAL	15.7		N	P	1	2.0	0.13	0.81
7439-89-6	IRON, TOTAL	15200			P	1	8.1	1.15	6.5
7439-92-1	LEAD, TOTAL	17.3			P	1	0.40	0.07	0.32
7439-96-5	MANGANESE, TOTAL	131		N	P	1	0.40	0.13	0.32
7439-97-6	MERCURY, TOTAL	0.05		N	CV	1	0.050	0.008	0.026
7440-02-0	NICKEL, TOTAL	18.8			P	1	3.2	0.04	0.32
7440-22-4	SILVER, TOTAL	0.16	J		P	1	1.2	0.02	0.32
7440-66-6	ZINC, TOTAL	54.9		N	P	1	2.0	0.14	0.81

Bottle ID: C

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M07-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 33.7 **Lab Sample ID:** SE2074-014

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	14900			P	1	32	0.75	10
7440-38-2	ARSENIC, TOTAL	13.5			P	1	0.85	0.07	0.53
7440-43-9	CADMIUM, TOTAL	0.79	J		P	1	1.0	0.008	0.32
7440-47-3	CHROMIUM, TOTAL	72.6			P	1	1.6	0.03	0.42
7440-50-8	COPPER, TOTAL	27.7			P	1	2.6	0.17	1.0
7439-89-6	IRON, TOTAL	23400			P	1	10	1.50	8.5
7439-92-1	LEAD, TOTAL	41.7			P	1	0.52	0.09	0.42
7439-96-5	MANGANESE, TOTAL	235			P	1	0.53	0.17	0.42
7439-97-6	MERCURY, TOTAL	0.28		N	CV	1	0.080	0.01	0.041
7440-02-0	NICKEL, TOTAL	21.0			P	1	4.2	0.05	0.42
7440-22-4	SILVER, TOTAL	0.64	J		P	1	1.6	0.03	0.42
7440-66-6	ZINC, TOTAL	101		*	P	1	2.6	0.18	1.0

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M07-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 34.7 **Lab Sample ID:** SE2074-015

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	14700			P	1	30	0.71	10
7440-38-2	ARSENIC, TOTAL	12.6			P	1	0.80	0.07	0.50
7440-43-9	CADMIUM, TOTAL	0.63	J		P	1	1.0	0.008	0.30
7440-47-3	CHROMIUM, TOTAL	57.5			P	1	1.5	0.03	0.40
7440-50-8	COPPER, TOTAL	20.1			P	1	2.5	0.16	1.0
7439-89-6	IRON, TOTAL	20800			P	1	10	1.42	8.0
7439-92-1	LEAD, TOTAL	31.5			P	1	0.50	0.09	0.40
7439-96-5	MANGANESE, TOTAL	234			P	1	0.50	0.16	0.40
7439-97-6	MERCURY, TOTAL	0.16		N	CV	1	0.079	0.01	0.040
7440-02-0	NICKEL, TOTAL	19.3			P	1	4.0	0.04	0.40
7440-22-4	SILVER, TOTAL	0.57	J		P	1	1.5	0.03	0.40
7440-66-6	ZINC, TOTAL	84.4		*	P	1	2.5	0.17	1.0

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M08-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 67.6 **Lab Sample ID:** SE2074-029

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	8330			P	1	25	0.59	8.3
7440-38-2	ARSENIC, TOTAL	13.2			P	1	0.66	0.06	0.42
7440-43-9	CADMIUM, TOTAL	0.19	J		P	1	0.83	0.007	0.25
7440-47-3	CHROMIUM, TOTAL	28.9			P	1	1.2	0.02	0.33
7440-50-8	COPPER, TOTAL	43.4		N	P	1	2.1	0.13	0.83
7439-89-6	IRON, TOTAL	15200			P	1	8.3	1.18	6.6
7439-92-1	LEAD, TOTAL	39.7			P	1	0.42	0.07	0.33
7439-96-5	MANGANESE, TOTAL	129		N	P	1	0.42	0.13	0.33
7439-97-6	MERCURY, TOTAL	0.09		N	CV	1	0.041	0.006	0.021
7440-02-0	NICKEL, TOTAL	15.2			P	1	3.3	0.04	0.33
7440-22-4	SILVER, TOTAL	0.18	J		P	1	1.2	0.02	0.33
7440-66-6	ZINC, TOTAL	86.3		N	P	1	2.1	0.14	0.83

Bottle ID: C

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M08-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 52.8 **Lab Sample ID:** SE2074-013

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	12700			P	1	22	0.53	7.4
7440-38-2	ARSENIC, TOTAL	16.2			P	2	1.2	0.10	0.74
7440-43-9	CADMIUM, TOTAL	0.35	J		P	2	1.5	0.01	0.45
7440-47-3	CHROMIUM, TOTAL	52.3			P	2	2.2	0.04	0.59
7440-50-8	COPPER, TOTAL	113			P	2	3.7	0.23	1.5
7439-89-6	IRON, TOTAL	21300			P	2	15	2.11	12
7439-92-1	LEAD, TOTAL	102			P	2	0.74	0.13	0.59
7439-96-5	MANGANESE, TOTAL	197			P	2	0.74	0.24	0.59
7439-97-6	MERCURY, TOTAL	0.33		N	CV	1	0.062	0.009	0.032
7440-02-0	NICKEL, TOTAL	26.9			P	2	5.9	0.07	0.59
7440-22-4	SILVER, TOTAL	0.43	J		P	2	2.2	0.04	0.59
7440-66-6	ZINC, TOTAL	139		*	P	1	1.8	0.12	0.74

Bottle ID: A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M08-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 68.7 **Lab Sample ID:** SE2074-027

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	7250			P	1	23	0.54	7.7
7440-38-2	ARSENIC, TOTAL	14.4			P	1	0.61	0.05	0.38
7440-43-9	CADMIUM, TOTAL	0.10	J		P	1	0.77	0.006	0.23
7440-47-3	CHROMIUM, TOTAL	22.2			P	1	1.1	0.02	0.31
7440-50-8	COPPER, TOTAL	26.4		N	P	1	1.9	0.12	0.77
7439-89-6	IRON, TOTAL	13800			P	1	7.7	1.09	6.1
7439-92-1	LEAD, TOTAL	35.4			P	1	0.38	0.07	0.31
7439-96-5	MANGANESE, TOTAL	123		N	P	1	0.38	0.12	0.31
7439-97-6	MERCURY, TOTAL	0.06		N	CV	1	0.045	0.007	0.023
7440-02-0	NICKEL, TOTAL	10.1			P	1	3.1	0.03	0.31
7440-22-4	SILVER, TOTAL	0.16	J		P	1	1.1	0.02	0.31
7440-66-6	ZINC, TOTAL	47.7		N	P	1	1.9	0.13	0.77

Bottle ID: C

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M09-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 27.9 **Lab Sample ID:** SE2074-030

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7429-90-5	ALUMINUM, TOTAL	18400			P	1	27	0.64	9.0
7440-38-2	ARSENIC, TOTAL	18.0			P	2	1.4	0.12	0.90
7440-43-9	CADMIUM, TOTAL	0.53	J		P	2	1.8	0.01	0.54
7440-47-3	CHROMIUM, TOTAL	79.6			P	2	2.7	0.05	0.72
7440-50-8	COPPER, TOTAL	112		N	P	2	4.5	0.28	1.8
7439-89-6	IRON, TOTAL	28000			P	2	18	2.55	14
7439-92-1	LEAD, TOTAL	79.1			P	2	0.90	0.16	0.72
7439-96-5	MANGANESE, TOTAL	284		N	P	2	0.90	0.29	0.72
7439-97-6	MERCURY, TOTAL	0.28		N	CV	1	0.12	0.02	0.061
7440-02-0	NICKEL, TOTAL	34.0			P	2	7.2	0.08	0.72
7440-22-4	SILVER, TOTAL	0.73	J		P	2	2.7	0.05	0.72
7440-66-6	ZINC, TOTAL	149		N	P	1	2.2	0.15	0.90

Bottle ID: D

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M09-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 27.6 **Lab Sample ID:** SE2074-011

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	16800			P	1	28	0.68	9.5
7440-38-2	ARSENIC, TOTAL	16.9			P	2	1.5	0.13	0.95
7440-43-9	CADMIUM, TOTAL	0.85	J		P	2	1.9	0.02	0.57
7440-47-3	CHROMIUM, TOTAL	86.0			P	2	2.8	0.05	0.76
7440-50-8	COPPER, TOTAL	93.2			P	2	4.8	0.30	1.9
7439-89-6	IRON, TOTAL	27100			P	2	19	2.70	15
7439-92-1	LEAD, TOTAL	133			P	2	0.95	0.17	0.76
7439-96-5	MANGANESE, TOTAL	284			P	2	0.95	0.31	0.76
7439-97-6	MERCURY, TOTAL	0.45		N	CV	1	0.12	0.02	0.060
7440-02-0	NICKEL, TOTAL	31.8			P	2	7.6	0.08	0.76
7440-22-4	SILVER, TOTAL	0.52	J		P	2	2.8	0.05	0.76
7440-66-6	ZINC, TOTAL	173		*	P	1	2.4	0.16	0.95

Bottle ID: C

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M09-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 26.6 **Lab Sample ID:** SE2074-012

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7429-90-5	ALUMINUM, TOTAL	18400			P	1	30	0.70	9.9
7440-38-2	ARSENIC, TOTAL	17.8			P	2	1.6	0.13	0.99
7440-43-9	CADMIUM, TOTAL	0.75	J		P	2	2.0	0.02	0.59
7440-47-3	CHROMIUM, TOTAL	88.8			P	2	3.0	0.05	0.79
7440-50-8	COPPER, TOTAL	99.0			P	2	4.9	0.31	2.0
7439-89-6	IRON, TOTAL	28500			P	2	20	2.80	16
7439-92-1	LEAD, TOTAL	93.4			P	2	0.99	0.17	0.79
7439-96-5	MANGANESE, TOTAL	301			P	2	0.99	0.32	0.79
7439-97-6	MERCURY, TOTAL	0.46		N	CV	1	0.10	0.02	0.052
7440-02-0	NICKEL, TOTAL	35.1			P	2	7.9	0.09	0.79
7440-22-4	SILVER, TOTAL	0.56	J		P	2	3.0	0.05	0.79
7440-66-6	ZINC, TOTAL	162		*	P	1	2.5	0.17	0.99

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M11-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 69.2 **Lab Sample ID:** SE2079-001

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	ADJUSTED MDL	ADJUSTED LOD
7440-50-8	COPPER, TOTAL	88.4		N	P	1	1.8	0.12	0.74
7439-92-1	LEAD, TOTAL	56.5			P	1	0.37	0.06	0.30
7440-02-0	NICKEL, TOTAL	34.9			P	1	3.0	0.03	0.30

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M12-111B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 56.5 **Lab Sample ID:** SE2074-031

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	ADJUSTED LOQ	MDL	LOD
7439-92-1	LEAD, TOTAL	199			P	2	0.92	0.16	0.74

Bottle ID: B

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M12-211B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 32.3 **Lab Sample ID:** SE2074-020

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7439-92-1	LEAD, TOTAL	139			P	2	0.92	0.16	0.73

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M12-311B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 36.5 **Lab Sample ID:** SE2074-019

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7439-92-1	LEAD, TOTAL	97.0			P	1	0.48	0.08	0.38

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M12-411B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 56.2 **Lab Sample ID:** SE2074-017

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7439-92-1	LEAD, TOTAL	344			P	1	0.42	0.07	0.33

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M12-511B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 54.8 **Lab Sample ID:** SE2074-016

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7439-92-1	LEAD, TOTAL	8730			P	5	2.4	0.42	1.9

Bottle ID: A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M12-611B

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 50.6 **Lab Sample ID:** SE2074-018

Concentration Units : mg/Kgdrywt

CAS No.	Analyte	Concentration	C	Q	M	DF	LOQ	ADJUSTED MDL	LOD
7439-92-1	LEAD, TOTAL	346			P	1	0.48	0.08	0.39

Bottle ID: A

Comments:

FORM I - IN

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-10
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-FD-041911-01	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	79. %	1	N/A	SM2540G	WG90643	25-APR-11 07:51:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-25
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-FD-041911-02	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	54. %	1	N/A	SM2540G	WG90645	25-APR-11 08:00:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-28
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-FD-041911-03	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	65. %	1	N/A	SM2540G	WG90645	25-APR-11 08:02:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-7
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M01-111B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	85. %	1	N/A	SM2540G	WG90643	25-APR-11 07:49:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-8
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M01-211B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	69. %	1	N/A	SM2540G	WG90643	25-APR-11 07:50:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-9
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M01-311B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	62. %	1	N/A	SM2540G	WG90643	25-APR-11 07:50:00	ASTM D2216	23-APR-11	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-4
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M03-111B	SL	18-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	49. %	1	N/A	SM2540G	WG90643	25-APR-11 07:48:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-3
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M03-211B	SL	18-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	57. %	1	N/A	SM2540G	WG90643	25-APR-11 07:47:00	ASTM D2216	23-APR-11	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-1
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M03-311B	SL	18-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	45. %	1	N/A	SM2540G	WG90643	25-APR-11 07:46:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-5
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M04-111B	SL	18-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	49. %	1	N/A	SM2540G	WG90643	25-APR-11 07:48:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

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Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-2
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M04-211B	SL	18-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	45. %	1	N/A	SM2540G	WG90643	25-APR-11 07:47:00	ASTM D2216	23-APR-11	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-6
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M04-311B	SL	18-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	79. %	1	N/A	SM2540G	WG90643	25-APR-11 07:49:00	ASTM D2216	23-APR-11	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-22
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M05-111B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	48. %	1	N/A	SM2540G	WG90645	25-APR-11 07:59:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-21
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M05-211B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	40. %	1	N/A	SM2540G	WG90645	25-APR-11 07:58:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-24
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M05-311B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	51. %	1	N/A	SM2540G	WG90645	25-APR-11 08:00:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-23
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M05-411B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	40. %	1	N/A	SM2540G	WG90645	25-APR-11 07:59:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-26
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M07-111B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	65. %	1	N/A	SM2540G	WG90645	25-APR-11 08:01:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-14
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M07-211B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	34. %	1	N/A	SM2540G	WG90643	25-APR-11 07:53:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-15
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M07-311B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	35. %	1	N/A	SM2540G	WG90643	25-APR-11 07:53:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-29
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M08-111B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	68. %	1	N/A	SM2540G	WG90645	25-APR-11 08:02:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-13
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M08-211B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	53. %	1	N/A	SM2540G	WG90643	25-APR-11 07:52:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-27
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M08-311B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	69. %	1	N/A	SM2540G	WG90645	25-APR-11 08:01:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-30
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M09-111B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	28. %	1	N/A	SM2540G	WG90645	25-APR-11 08:03:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-11
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M09-211B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	28. %	1	N/A	SM2540G	WG90643	25-APR-11 07:51:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-12
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M09-311B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	26. %	1	N/A	SM2540G	WG90643	25-APR-11 07:52:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2079-1
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M11-311B	SL	21-APR-11	21-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	69. %	1	N/A	SM2540G	WG90645	25-APR-11 08:08:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-31
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M12-111B	SL	20-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	56. %	1	N/A	SM2540G	WG90645	25-APR-11 08:04:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-20
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M12-211B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	32. %	1	N/A	SM2540G	WG90643	25-APR-11 07:56:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-19
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M12-311B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	36. %	1	N/A	SM2540G	WG90643	25-APR-11 07:56:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-17
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M12-411B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	56. %	1	N/A	SM2540G	WG90643	25-APR-11 07:54:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-16
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M12-511B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	55. %	1	N/A	SM2540G	WG90643	25-APR-11 07:54:00	ASTM D2216	23-APR-11	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tobrena Sedlmyer
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: SE2074-18
Report Date: 14-MAY-11
Client PO: 1045366 15-CTOWE29
Project: PNS CTO WE29 OU4
SDG: WE29-1

Sample Description	Matrix	Date Sampled	Date Received
OU4-SD-M12-611B	SL	19-APR-11	20-APR-11

Parameter	Result	Adj LOQ	Adj LOD	Anal. Method	QC.Batch	Anal. Date	Prep. Method	Prep. Date	Footnotes
Total Solids	50. %	1	N/A	SM2540G	WG90643	25-APR-11 07:55:00	ASTM D2216	23-APR-11	

APPENDIX C
REGION I WORKSHEETS

REGION I, EPA-NE INORGANIC REGIONAL DATA ASSESSMENT (IRDA)*

CASE #: _____

LAB NAME: Katahdin

SDG #: WE29-1

SOW #/CONTRACT #: _____

EPA-NE DV TIER LEVEL: _____

PO: **ACTION _____ FYI _____

SITE NAME: Portsmouth

OF SAMPLES/MATRIX: 2 Aqu / 32 Sediment

VALIDATION CONTRACTOR: _____

VALIDATOR'S NAME: Terri Solomon

DATE DP REC'D BY EPA-NE: _____

DV COMPLETION DATE: 6/29/2011

ANALYTICAL DATA QUALITY SUMMARY

		ICP-AES	ICP- MS	HG	CN
I.	Preservation and Technical Holding Times	O	NA	O	NA
II.	ICP-MS Tune	↓	↓	↓	↓
III.	Calibrations	↓	↓	↓	↓
IV.	Blanks	↓	↓	↓	↓
V.	ICP-AES Interference Check Sample (ICS)	↓	↓	↓	↓
VI.	ICP-MS Interference Check Sample (ICS)	↓	↓	↓	↓
VII.	ICP-MS Internal Standards	↓	↓	↓	↓
VIII.	Matrix Spikes	↓	↓	↓	↓
IX.	Laboratory Duplicate Samples	↓	↓	↓	↓
X.	Field Duplicates	↓	↓	↓	↓
XI.	ICP Serial Dilutions	↓	↓	↓	↓
XII.	Sensitivity Check	↓	↓	↓	↓
XIII.	Performance Evaluation Samples/Accuracy Check	↓	↓	↓	↓
XIV.	Analyte Quantitation and Reported Quantitation Limits	↓	↓	↓	↓
XV.	System Performance	↓	↓	↓	↓
XVI.	Overall Evaluation of Data	↓	↓	↓	↓

o = Data had no problems or were qualified due to minor contractual problems.
m = Data were qualified due to major contractual problems.
z = Data were rejected as unusable due to major contractual problems.

ACTION ITEMS: (z items) _____

AREAS OF CONCERN: (m items) _____

COMMENTS: _____

* This form assesses the analytical data quality in terms of contractual compliance only. It does not assess sampling errors and/or non-contractual analytical issues that affect data quality.

** Check "ACTION" only if contractual defects resulted in reduced payment/data rejection recommendations.

Validator: Terri Solomon

Date: 6/29/2011

INSTRUCTIONS ON REVERSE SIDE

DRAFT 11/08

GUIDANCE FOR COMPLETING THE IRDA

The IRDA form provides the laboratory's CLP PO and other contract management personnel with an overview of the contractual analysis and reporting deficiencies found in an analytical data package and identifies those contractual deficiencies that resulted in reduced payment/data rejection recommendations/actions. The IRDA form is used to summarize analytical data quality only in terms of contractual compliance. Sampling errors and non-contractual analytical errors that affect data quality are not summarized on this form, but rather are documented in the Tier I Validation Cover Letter and Tier II/III Data Validation Reports. For instance, if the sampler did not ship the samples until after the holding time had expired, a notation would not be made on the IRDA form since the laboratory is not responsible for the sampler's actions.

The IRDA form should be completed as follows:

1. Fill in all the header information (with the exception of the PO Action/FYI field): Case Number, Site Name, Laboratory Name, number and matrix of samples in the data package, SDG number, Validation Contractor, SOW#/Contract#, Data Validator's Name, EPA-NE Data Validation Tier Level (i.e., I, II, III or partial II/III), Date the Data Package was received by EPA-NE, and the Data Validation Completion Date.

2. Summarize the contractual problems discovered during data validation by fraction and by evaluation criteria in the "Analytical Data Summary" table, and in the "Action Items" and "Areas of Concern" sections as described in items 3 through 6 below. Use the Data Validation Memoranda as a guide when completing the IRDA form.

3. The following qualifiers must be utilized to document contractual problems on the IRDA forms.

o	=	Data had no problems or were qualified due to minor contractual problems
m	=	Data were qualified due to major contractual problems
z	=	Data were rejected as unusable due to major contractual problems

4. If the data were acceptable, or were qualified due to minor contractual problems, enter the qualifier "o" into the appropriate column (fraction) and row (evaluation criteria). No further documentation is necessary on the IRDA form. An example of a minor problem would be an inorganic analyte that slightly exceeded the SOW-specified %R continuing calibration criterion.

5. If the data were qualified due to major contractual problems, enter the qualifier "m" into the appropriate column (fraction) and row (evaluation criteria). Use different superscripts (m^1, m^2, etc.) for each major contractual problem identified and provide a brief description of each major problem in the "Areas of Concern" section. An example of a major contractual problem resulting in data qualification would be an ICP-MS internal standard that had an extremely low % relative intensity (below the lower limit of the SOW-specified acceptance criteria) and reanalysis was not performed.

6. If the data were rejected as unusable due to major contractual problems, enter the qualifier "z" in the appropriate column (method/parameter) and row (evaluation criteria). Use a different superscript (z^1, z^2, etc.) for each major contractual problem identified and provide a brief description of each major problem in the "Action Items" section. An example of a major contractual problem resulting in data rejection would be contractual holding time criteria that were exceeded for cyanide.

7. Complete the PO Action/FYI field using the information contained in the "Action Items" and "Areas of Concern" sections. PO Action should be indicated with a check mark (√) in the space following "Action" only if the contractual defects resulted in reduced payment or data rejection. If no PO Actions are indicated, then a check mark (√) should be placed in the space following "FYI".

8. The validator who completed the IRDA form must sign his/her name in the "Validator" field and enter the IRDA completion date in the "Date" field.

EPA-NE
Data Validation Worksheet Cover Page - Page 1

Site Name Portsmouth
Reference No. _____

REGION I INORGANIC DATA VALIDATION

The following data package has been validated:

Lab Name Katahdin
Case/Project No. _____
SDG No. WL29-1
No. of Samples/Matrix 2 Aqueo. 32 Sediment

SOW/Method No. _____
Sampling Date(s) _____
Shipping Date(s) _____
Date Rec'd by lab _____

Traffic Report Sample Nos. _____

See validation letter

Equipment Blank No. _____
Bottle Blank No. _____
Field Duplicate Nos. _____
PES Nos. _____

The Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, revision _____ was used to evaluate the data and/or approved modifications to the EPA-NE Functional Guidelines were used to evaluate the data and are attached to this cover page: (attach modified criteria from EPA approved QAPP or amendment to QAPP).

A Tier II or Tier III evaluation was used to validate the data (circle one). If a Tier II validation with a partial Tier III was used, then identify samples, parameters, etc., that received partial Tier III validation.

_____

The data were evaluated based upon the following parameters:

- Overall Evaluation of Data
- Data Completeness (CSF Audit - Tier I)
- Preservation and Technical Holding Times
- ICP-MS Tune
- Calibrations
- Blanks
- ICP-AES Interference Check Sample (ICS)
- ICP-MS Interference Check Sample (ICS)
- ICP-MS Internal Standards
- Matrix Spikes
- Laboratory Duplicate Samples
- Field Duplicates
- ICP Serial Dilutions
- Sensitivity Check
- Performance Evaluation Samples/Accuracy Check
- Analyte Quantitation and Reported Quantitation Limits
- System Performance

Region I Definitions and Qualifiers:

A - Acceptable Data
J - Numerical value associated with analyte is an estimated quantity.
R - The data are rejected as unusable. The R replaces the numerical value or sample quantitation limit.
U - Analyte not detected at that numerical sample quantitation limit.
UJ - The sample quantitation limit is an estimated quantity.
BB, EB - Analyte detected in aqueous bottle blank or aqueous equipment blank associated with soil/sediment samples.

Validator's Name Terri Solomon Company Name TetraTech Phone Number _____

Date Validation Started 6/28/2011 Date Validation Completed 6/29/2011

EPA-NE
Data Validation Worksheet Cover Page - Page 2

Check if all criteria are met and no hard copy worksheet is provided. Indicate NA if worksheet is not applicable to the analytical method. Note: there is no standard worksheet for System Performance; however, the validator must document all system performance issues in the Data Validation Memorandum.

INORG Worksheets:

INORG	COMPLETE SDG FILE (CSF) AUDIT	
INORG-I	PRESERVATION AND TECHNICAL HOLDING TIMES	
INORG-II	ICP-MS TUNE	N/A
INORG-III-A/B	CALIBRATIONS	
INORG-IV-A/B	BLANKS	
INORG-IV-C.1	BLANKS	
INORG-IV-C.2	BLANKS	
INORG-V-A	ICP-AES INTERFERENCE CHECK SAMPLE - ICSAB	
INORG-V-B.1	ICP-AES INTERFERENCE CHECK SAMPLE - ICSA	
INORG-V-B.2	ICP-AES INTERFERENCE CHECK SAMPLE - ICSA	
INORG-VI-A	ICP-MS INTERFERENCE CHECK SAMPLE - ICSAB	N/A
INORG-VI-B	ICP-MS INTERFERENCE CHECK SAMPLE - ICSA	N/A
INORG-VII	ICP-MS INTERNAL STANDARDS	N/A
INORG-VIII	MATRIX SPIKES	
INORG-IX	LABORATORY DUPLICATE SAMPLES	
INORG-X	FIELD DUPLICATES	
INORG-XI	ICP SERIAL DILUTIONS	
INORG-XII-A/B	SENSITIVITY CHECK	N/A
INORG-XIII-A	PE SAMPLES/ACCURACY CHECK- LCS	N/A
INORG-XIII-B	PE SAMPLES/ACCURACY CHECK- PE RESULTS	N/A
INORG-XIV	ANALYTE QUANTITATION AND REPORTED QUANTITATION LIMITS	
TABLE II-WORKSHEET	OVERALL EVALUATION OF DATA	

I certify that all criteria were met for the worksheets checked above.

Signature: Terri Solomon

Name: Terri Solomon

Date: 6/29/2011

The data validator generates a Data Validation Report, applicable to Data Validation Tiers II and III, that consists of the following components in the order specified below: (Refer to Part I - Data Validation Manual, Section 11 for a description of each of the Data Validation Report components).

1. Organic Regional Data Assessment/Inorganic Regional Data Assessment (ORDA/IRDA) Form
2. Data Validation Memorandum
   a. Narrative
   b. Table I-Qualifier Recommendation Summary Table
   c. Table II-Overall Evaluation of Data
   d. Data Summary Tables
3. Standard Data Validation Worksheets
   a. Manual
   b. Automated Data Review Reports
4. Support Documentation
   a. Copy of non-CLP analytical method, e.g., DAS methods, modified EPA methods
   b. Copies of PES Score Reports/Vendor PES QC Acceptance Limits
   c. Copies of Telephone Logs/Communication Forms for:
      - RSCC communications
      - Requests for laboratory data resubmissions/clarifications
      - Communications with samplers resolving sampling problems
      - Communications with PO/DV Chemist/Lead Chemist to report contractually-deficient data for rejection/reduced payment
      - Communications with EPA Site Manager concerning possible data rejection
      - EPA Site Manager authorization for alternate DV tier
   d. Copies of data supporting recommendations for reduced payment resulting from CSF Audit and/or PE sample result evaluation
   e. Original data to support recommendations for data rejection/non-payment identified from Tier II or Tier III data validation
   f. Copies of field sampling notes and/or field report supplied by field sampler
   g. Copies of EPA-approved amendments to QAPP and/or SAP describing modified criteria to be used for validating site data
5. CSF Completeness Evidence Audit
6. DQO Summary Form

The data validator is responsible for implementing all corrective actions required by the contractor Lead Chemist in response to EPA-NE data validation oversight findings.

EPA-NE - Data Validation Worksheet

Overall Evaluation of Data - Data Validation Memorandum - Table II

see validation letter

Site:_____ _____ Case:_____ SDG:_____

INORGANICS					
DQO (List all DQOs)	Sampling and/or Analytical Method Appropriate? (Yes or No)	Measurement Error		Sampling Variability**	Potential Usability Issues
		Analytical Error	Sampling Error*		

* The evaluation of "sampling error" cannot be completely assessed in data validation.

** Sampling variability is not assessed in data validation.

Validator: Hope Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG

See validation letter

COMPLETE SDG FILE (CSF) AUDIT

Inorganic Parameters:_____

Missing Information	Date Lab Contacted	Date Received

Validator: Alan Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-I

See validation letter

I. PRESERVATION AND HOLDING TIMES

Circle sample numbers with exceeded technical holding times or omitted preservation.
Circle all exceeded technical holding times.

Sample No.	Matrix	Pres. Code		Date Sampled	Metals		Hg		CN		Action
		Metals	CN		Date Analyzed	# of Days from Samp. to Analysis	Date Analyzed	# of Days from Samp. to Analysis	Date Analyzed	# of Days from Samp. to Analysis	

Preservation Code:
1. Cool (≤ 6°C)
2. pH < 2 with HNO_3
3. pH > 12 with NaOH
4. Room Temperature
5. Freeze
6. Reducing agent (for oxidants)
7. Treated for sulfides
8. Other - _____

Action Code:
J - Estimate (J) Detected Values
UJ - Estimate (UJ) Non-Detected Values
R - Reject (R) Non-Detected Values

Sampler:_____ Company:_____ Contacted: Y N Date:_____

Validator: Hans Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-II

N/A

II. ICP-MS TUNE

List all Tunes that are outside method QC acceptance criteria.

Method:_____

Method QC acceptance criteria for mass calibration:_____

Method QC acceptance criteria for resolution check/peak width:_____ at_____% peak height.

Method QC acceptance criteria for % RSD:_____

Analysis Date and Time	Analyte	Mass Calibration			Mass Resolution		% RSD of Absolute Signals	Analyte/Samples Affected	Action
		True Mass (amu)	Measured Mass (amu)	Absolute Difference of Masses (amu)	Peak Width (amu)	% Peak Height			

Comments:

Validator: Lynn Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-III-A/B/C

see validation letter

III. CALIBRATIONS

A. Instrument Calibration - List all calibration correlation coefficients that are outside the method QC acceptance criteria.
Calibration correlation QC acceptance criteria: _____ Calibration Type: _____

Date/Time	Instr.	Analyte	Corr. Coef.	Samples Affected	Action

B. Initial and Continuing Calibration Verifications - List all ICV and CCV analyte recoveries that are outside the method QC acceptance criteria.
ICV method QC acceptance criteria: _____ CCV method QC acceptance criteria: _____

Date	Instr.	Analyte	ICV/CCV #	% R	Samples Affected	Action

C. Quantitation Limit Check Standard - List all QL Check Standard analytes that are outside method QC acceptance criteria.
QL Check Standard method QC acceptance criteria: _____

Date	Instr.	Analyte	QL Check Std. #	% R	Affected Range	Samples Affected	Action

Comments: _____

Validator: Kim Salomon Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-IV-A/B

see validation letter

IV. BLANKS - List the blank contamination and negative blank results below.

Sampler: _____ Company: _____ Contacted: Y N Date: _____

A. Laboratory: Preparation (Method) and Calibration (Instrument) Blanks

Date Prepared	Date Analyzed	Blank Type (ICB/CCB#/Prep Blank)	Matrix	Instrument	Analyte	Conc. (units)

B. Field: Equipment (Rinsate) and Bottle Blanks

Date Sampled	Date Analyzed	Sample No. (Blank Type)	Matrix	Instrument	Analyte	Conc. (units)

Were the proper number of blanks analyzed at the proper frequency? Y N

For ICP MS - Are internal standard responses in all blanks within method QC acceptance criteria? Y N

Comments: _____

Validator: Alan Salamon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-IV-C.1
IV. BLANKS

See validation letter

C.1 Blank Contamination Worksheet

Circle the highest concentration of each contaminant.

Analyte	Date Analyzed	ICB	CCB							PBW	PBS	EB	BB	Max. Conc.	Action Level
			1	2	3	4	5	6	7						
Aluminum															
Antimony															
Arsenic															
Barium															
Beryllium															
Cadmium															
Calcium															
Chromium															
Cobalt															
Copper															
Iron															
Lead															
Magnesium															
Manganese															
Mercury															
Nickel															
Potassium															
Selenium															
Silver															
Sodium															
Thallium															
Vanadium															
Zinc															
Cyanide															

Validator: [signature]

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-IV-C.2

see validation letter

IV. BLANKS

C.2 Blank Actions - List the maximum concentrations of each analyte among all blanks associated with each sample.

Analyte	Type of Blank	Date Blank Originated	Max. Conc. (units)	Blank Action Level (units)	Sample QL	Samples Affected	Action

Comments:

Validator: Alan Solomon

Date: 6/29/2011

DRAFT 11/08

EPA NE - Data Validation Worksheet
INORG-V-A

see validation letter

V. A. ICP-AES INTERFERENCE CHECK SAMPLE - ICSAB

1. List all analytes in the ICSAB that are outside ICSAB percent recovery criteria.

Date	Analyte	%R	Conc. of Interferents Observed in ICSAB (ug/L)				Samples Affected	Action
			Al	Ca	Fe	Mg		

Comments:

Validator: Mary Solomon

Date: 6/29/2011

DRAFT 11/08

EPA NE - Data Validation Worksheet
INORG-V-B.1

See validation letter

V. B.1 ICP-AES INTERFERENCE CHECK SAMPLE - ICSA

1. List all analytes in the ICSA that are outside ICSA criteria.

Date	Analyte	MDL (ug/L)	ICSA Observed Conc. (ug/L)	ICSA True Value (ug/L)	Criteria: 80-120% R or TV±2xMDL	Conc. of Interferents Observed in ICSA (ug/L)				Associated Samples
						Al	Ca	Fe	Mg	

Comments:

Validator: Alan Solomon

Date: 6/29/2011

DRAFT 11/08

EPA NE - Data Validation Worksheet
INORG-V-B.2

see validation letter

V. B.2 ICP-AES INTERFERENCE CHECK SAMPLE - ICSA

2. List all affected sample results.

Affected Sample	Interferent	Conc. in Sample (ug/L)	Analyte	Conc. in Sample (ug/L)	Estimated Interference in Sample (ug/L)	Action

Comments:

Validator: Helen Solomon

Date: 6/29/2011

DRAFT 11/08

EPA NE - Data Validation Worksheet
INORG-VI-A

N/A

VI. A. ICP-MS INTERFERENCE CHECK SAMPLE - ICSAB

List all analytes that are outside ICSAB criteria of 80-120% R.

Date	Analyte	%R	Samples Affected	Action

Comments:

Validator: Hope Solomon

Date: 6/29/2011

DRAFT 11/08

EPA NE - Data Validation Worksheet
INORG-VI-B

N/A

VI. B. ICP-MS INTERFERENCE CHECK SAMPLE - ICSA

List all analytes that are outside ICSA criteria.

Date	Analyte	MDL (ug/L)	ICSA Observed Conc. (ug/L)	ICSA True Value (ug/L)	Criteria: 80-120% R or TV ± 2xMDL	Samples Affected	Action

Comments:

Validator: Mark Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-VII

NA

VII. ICP-MS INTERNAL STANDARDS

List all internal standards that are outside method QC acceptance criteria.

IS method QC acceptance criteria: _____

Sample Number	Date and Time Analyzed	IS, amu	% RI	Analytes Affected (amu)	Action

Comments:

Validator: Helen Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Vali ation Worksheet
INORG-VIII

see validation letter

VIII. MATRIX SPIKES - List all matrix spike analytes that are outside method QC acceptance criteria.

Use a separate worksheet for each matrix spike sample.

Sample No.: _____ Matrix: _____

Method	Analyte	Spiked Sample Result	Sample Result	Amount of Spike Added	MS % Recovery	Method QC Limits % Recovery	Post-Digest Spike % Recovery	Action

Comments:

Validator: Alex Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-IX

See validation letter

IX. LABORATORY DUPLICATE SAMPLES - List all analytes that are outside method QC acceptance criteria for the specific matrix.

Use a separate worksheet for each laboratory duplicate sample.

Sample No.:_____ Duplicate Sample No.:_____ Matrix:_____

Laboratory duplicate sample method QC acceptance criteria:_____

Method	Analyte	Sample Conc.	Sample		Duplicate Conc.	Duplicate		RPD or Abs. Diff.	QC Acceptance Criteria (RPD or Abs. Diff.)	Action
			SQL	5xSQL		SQL	5xSQL			

Do the field duplicate sample data indicate acceptable field precision? Y N

Comments:_____

Validator: Alan Salomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-X

See validation letter

X. FIELD DUPLICATES - List all field duplicate analytes that are outside criteria.

Use a separate worksheet for each field duplicate pair.

Sample No.:_____ Duplicate Sample No.:_____ Matrix:_____

Method	Analyte	Sample Conc.	Sample		Duplicate Conc.	Duplicate		RPD or Abs. Diff.	QC Acceptance Criteria (RPD or Abs. Diff.)	Action
			SQL	5xSQL		SQL	5xSQL			

Do the laboratory duplicate sample data indicate acceptable laboratory precision? Y N

Comments: _____

Sampler Name: _____ Contractor Name: _____ Date Contacted: _____

Reason for contact and resolution obtained: _____

Validator: Nancy Solomon Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-XI

XI. ICP SERIAL DILUTIONS

see validation letter

Use a separate worksheet for each serial dilution sample.

Sample No.:_____ Matrix:_____ Method:_____

List all serial dilution analytes that are outside method QC acceptance criteria.

% Difference method QC acceptance criteria: _____
Minimum concentration required to apply the % D criteria (e.g., 50x MDL): _____

Analyte	MDL	Min. Conc. Required	Sample Result	Serial Dilution Sample Result (corrected for dilution)	% D	Action

Comments:

Validator: Helen Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-XII-A/B

See validation letter

XII. SENSITIVITY CHECK

A. Method Detection Limit Study - List all analytes that are outside the MDL criteria.

- Has an appropriate MDL study been submitted with seven replicates for each analyte and matrix of interest? Y N
- Were samples analyzed within one year of the MDL study and on the same instrument? Y N

Matrix	Analyte	MDL	MDL > QL	Samples Affected	Action

If an MDL study has not been submitted, use only the LFB results to evaluate data.

B. Laboratory Fortified Blank - List all LFB analytes that are outside the LFB criteria.

- Has an appropriate and complete LFB been submitted at the proper frequency? Y N
- Does the LFB contain all target analytes at their QLs? Y N

Matrix	Method	Analyte	% R	Method QC Limits % R	Samples Affected	Action

Comments:

Validator: Dave Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-XIII-A

XIII. PERFORMANCE EVALUATION SAMPLES/ACCURACY CHECK

see validation letter

A. Laboratory Control Samples - List all analytes that are outside criteria.

SDG No.:_____ Case:_____

Are more than one-half of the LCS analytes within criteria for each parameter and method? **Y** **N**

Date Prepared	Date Analyzed	Parameter/ Method	Matrix	Analyte	% Recovery (or Observed Conc.)	Method QC Acceptance Criteria	Samples Affected	Action

Comments:

Validator: Mew Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-XIII-B

XIII. PERFORMANCE EVALUATION SAMPLES/ACCURACY CHECK

N/A

B. Performance Evaluation Results - List all analytes that are outside criteria.

SDG No.:_____ Case:_____

Indicate the source of the PES: Region 1 EPA PES Non-EPA PES

Are more than one-half of the PES analytes within criteria for each parameter and method? **Y** **N**

PE Sample Number	Ampule Number	Parameter/ Method	Type of PES	Matrix	Analyte	Conc.	PES Score*	Samples Affected	Action

* For Region I PESs indicate the Region I PES Score Report Result: Action High, Action Low, Analyte Missed, Contaminant.
For Non-EPA PESs indicate the Non-EPA PES Score: PES Analyte Missed; PES Analyte Contaminant; PES Analyte Hit (% Recovery Limits).

Comments:_____

Validator: Dawn Solomon

Date: 6/29/2011

DRAFT 11/08

EPA-NE - Data Validation Worksheet
INORG-XIV

see validation letter

XIV. ANALYTE QUANTITATION AND REPORTED QUANTITATION LIMITS

Recalculate, from the raw data, the concentrations for one positive detect and one reported sample quantitation limit for a non-detect in a diluted sample or soil sample per analytical method. (Note: Although Section XIV, C.2.a, requires that one calculation for each method in each sample be performed, the validator is only required to reproduce an example, for each method, of one positive detect and one sample quantitation limit calculation on this worksheet.)

Do all soil/sediment samples have % solids greater than 30%? **Y** **N**

- If no, were any steps employed to address the high moisture content? _____
- Indicate the action and list the affected sample nos.: _____

Method		Calculation
ICP-AES		
Sample No.:		
Reported Analyte:		
Reported Value:		
Non-Detected Analyte:		
Reported Quantitation Limit:		
ICP-MS		
Sample No.:		
Reported Analyte:		
Reported Value:		
Non-Detected Analyte:		
Reported Quantitation Limit:		
Mercury		
Sample No.:		
Reported Value:		
Sample No.:		
Reported Quantitation Limit:		
Cyanide		
Sample No.:		
Reported Value:		
Sample No.:		
Reported Quantitation Limit:		

Validator: Ann Solomon

Date: 6/29/2011

DRAFT 11/08

APPENDIX D
SUPPORT DOCUMENTATION

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
PNS CTO WE29 OU4
SDG: WE29-1
SD2074, SE2079

Sample Receipt

The following samples were received on April 20 and 21, 2011 and were logged in under Katahdin Analytical Services work order numbers SD2074 and SE2079 for a hardcopy due date of May 9, 2011.

KATAHDIN Sample No.	TTNUS Sample Identification
SE2074-1	OU4-SD-M03-311B
SE2074-2	OU4-SD-M04-211B
SE2074-3	OU4-SD-M03-211B
SE2074-4	OU4-SD-M03-111B
SE2074-5	OU4-SD-M04-111B
SE2074-6	OU4-SD-M04-311B
SE2074-7	OU4-SD-M01-111B
SE2074-8	OU4-SD-M01-211B
SE2074-9	OU4-SD-M01-311B
SE2074-10	OU4-FD-041911-01
SE2074-11	OU4-SD-M09-211B
SE2074-12	OU4-SD-M09-311B
SE2074-13	OU4-SD-M08-211B
SE2074-14	OU4-SD-M07-211B
SE2074-15	OU4-SD-M07-311B
SE2074-16	OU4-SD-M12-511B
SE2074-17	OU4-SD-M12-411B
SE2074-18	OU4-SD-M12-611B
SE2074-19	OU4-SD-M12-311B
SE2074-20	OU4-SD-M12-211B
SE2074-21	OU4-SD-M05-211B
SE2074-22	OU4-SD-M05-111B
SE2074-23	OU4-SD-M05-411B
SE2074-24	OU4-SD-M05-311B
SE2074-25	OU4-FD-041911-02
SE2074-26	OU4-SD-M07-111B
SE2074-27	OU4-SD-M08-311B
SE2074-28	OU4-SD-FD-041911-03
SE2074-29	OU4-SD-M08-111B
SE2074-30	OU4-SD-M09-111B
SE2074-31	OU4-SD-M12-111B
SE2074-32	OU4-RB-042011-01

SE2074-33 OU4-SB-042011-01
SE2079-1 OU4-SD-M11-311B

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Kelly Perkins**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WE29-1 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8270C SIM Analysis

Sample SE2074-21 and 29 were used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client.

All soil samples and associated QC were subjected to the GPC sample clean-up process.

Surrogate recoveries for all samples and QC were evaluated using laboratory established acceptance limits.

The reported percent recovery acceptance limits for the aqueous Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds and nominal limits for all additional compounds. The limits for the soil LCS's are nominal acceptable limits. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than the DoD QSM allowable number of exceedances. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long the LCS is acceptable. Nominal limits are used for the soil LCS/LCSD until enough data is collected to generate statistically based acceptance limits.

Samples SE2074-1, 2, 3, 3DL, 4, 4DL, 5, 5DL, 6, 7, 7DL, 8, 8Dl, 9, 10, 10DL, 11, 11DL, 12, 12DL, 13, 13DL, 14, 15, 19DL, 20, 21, 22, 22DL, 23, 23DL, 24, 25, 26, 27, 28, 29, 30, and 31DL

The closing CV (file 7EE257) had low responses for most target analytes on channel A, which resulted in %D's that were outside of the DoD QSM acceptance limits of 20%. Since the responses were acceptable on channel B, the associated samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of SDG WE29-1 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Aqueous-matrix Katahdin Sample Numbers SE2074- (32 and 33) were digested for ICP analysis on 04/22/11 (QC Batch BD22ICW0) in accordance with USEPA Method 3010A.

Solid-matrix Katahdin Sample Numbers SE2074-(1-6 and 11-31) and SE2079-1 were digested for ICP analysis on 04/25/11 (QC Batches BD25ICS0 and BD25ICS1) in accordance with USEPA Method 3050B. Katahdin Sample Numbers SE2074-(21 and 29) were prepared in duplicate and with matrix-spiked aliquots.

ICP analyses of SDG WE29-1 sample digestates were performed using a Thermo iCAP 6500 ICP spectrometer in accordance with USEPA Method 6010. All samples were analyzed within holding times and all analytical run QC criteria were met.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Aqueous-matrix Katahdin Sample Numbers SE2074-(32 and 33) were digested for mercury analysis on 04/25/11 (QC Batch BD25HGW1) in accordance with USEPA Method 7470A.

Solid-matrix Katahdin Sample Numbers SE2074-(11-15 and 21-30) were digested for mercury analysis on 05/05/11 (QC Batch BE05HGS0) in accordance with USEPA Method 7471B. Katahdin Sample Number SE2074-21 was prepared in duplicate and with a matrix-spiked aliquot.

Mercury analyses of SDG WE29-1 sample digestate was performed using a Cetac M6100 automated mercury analyzer in accordance with USEPA Method 7471B. All samples were analyzed within holding times and all analytical run QC criteria were met.

Matrix QC Summary

The measured recovery of mercury in the matrix-spiked aliquot of Katahdin Sample Number SE2074-21 is outside the project acceptance criteria (80% - 120% recovery of the added element, if the native concentration is less than four times the amount added). The measured recovery of mercury in a post-digestion spiked aliquot of this sample is within the laboratory's acceptance criteria (75% - 125%).

The measured recoveries of copper, manganese, and zinc in the matrix-spiked aliquot of Katahdin Sample Number SE2074-29 are outside the project acceptance criteria (80% - 120% recovery of the added element, if the native concentration is less than four times the amount added). The measured recoveries of these analytes in a post-digestion spiked aliquot of this sample are within the laboratory's acceptance criteria (75% - 125%).

The duplicate analysis of Katahdin Sample Number SE2074-21 is outside the laboratory's acceptance limit (<20% relative difference between duplicate aliquots) for zinc.

The duplicate analysis of Katahdin Sample Number SE2074-29 is within the laboratory's acceptance limit (<20% relative difference between duplicate aliquots) for all elements.

The serial dilution analyses of Katahdin Sample Numbers SE2074-(21 and 29) are within the laboratory's acceptance limit (<10% relative percent difference, if the concentration in the original sample is greater than 50 times the LOQ) for all analytes.

Reporting of Metals Results

Analytical results for client samples have been reported down to the laboratory's method detection limits (MDLs) throughout the accompanying data package. These MDLs have been adjusted for each sample based on the sample amounts used in preparation and analysis. Results that fall between the MDL and the laboratory's limits of quantitation (LOQ) are flagged with "J" in the C-qualifier column, and the measured concentration appears in the concentration column. Results that are less than the MDL are flagged with "U" in the C-qualifier column, and the LOD is listed in the concentration column. These LOQ's, MDLs and LODs have been adjusted for each sample based on the sample amounts used in preparation and analysis.

Analytical results on Forms VA, VD, VII, and IX for client samples, matrix QC samples (duplicates and matrix spikes), and laboratory control samples have been reported down to the laboratory's method detection limits (MDLs). Analytical results that are below the MDLs are flagged with "U" in the C-qualifier column, and the measured concentration is listed in the concentration column.

Analytical results for instrument run QC samples (ICVs, ICBs, etc.) have been reported down to the laboratory's instrument detection limits (IDLs).

IDLs, LODs, MDLs, and LOQs are listed on Form 10 of the accompanying data package.

Wet Chemistry Analysis

The samples of SDG WE29-1 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times. All quality control criteria were met.

Subcontracted Analysis

Analyses for Dioxin by Method 1613 were performed by a subcontract laboratory. Please refer to the section of the data package titled Subcontracted Data.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Office, as verified by the following signature.

Deborah J. Radeau for 6-6-11

Leslie Dimond
Quality Assurance Officer

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 3 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins / Katadin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT [X]
RUSH TAT [ ] [ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAHs	metals	4,4'DDT-PCB	Dioxin/Furans	Lead				COMMENTS
					CONTAINER TYPE PLASTIC (P) or GLASS (G)	G	G	G	G	G				
					PRESERVATIVE USED	4°C	4°C	4°C	4°C	4°C				
4/19	1820	OU4-SD-M07-111B	Sed	C	(5) 4	1	(1)	1	1	—				*
	1850	OU4-SD-M08-311B			(5) 4	1	(1)	1	1	—				*
	0000	OU4-FD-041911-03			(5) 4	1	(1)	1	1	—				*
	1900	OU4-SD-M03-111B			(15) 12	3	3	3	3	—				*
	1910	OU4-SD-M09-111B			4	1	(1)	1	1	—				*
4/20	0830	OU4-SD-M12-111B			2	1	—	—	—	(1)				

1. RELINQUISHED BY	DATE 4/20/11	TIME 1602	1. RECEIVED BY	DATE 4/20/11	TIME 16:07
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS * Bottles have an extra 4oz. Use extra volume as necessary

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER DE2019 | PAGE 1 OF 1

PROJECT NO: 112G02225	SITE NAME: OU4	PROJECT MANAGER AND PHONE NUMBER: Dan Witt 412-921-7090	LABORATORY NAME AND CONTACT: Kelly Perkins / Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: Cu, Pb, Ni								COMMENTS
4/21	0820	OU4-SD-M11-311B	Sed	C	1	1								

1. RELINQUISHED BY	DATE 4/21/11	TIME 0855	1. RECEIVED BY	DATE 4/21/11	TIME 0855
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

000039

TETRA TECH NUS, INC.

CHAIN OF CUSTODY | NUMBER | PAGE 4 OF 4

PROJECT NO: 112G02225

SITE NAME: OU4

PROJECT MANAGER AND PHONE NUMBER: Dan Klitt 412-921-7090

LABORATORY NAME AND CONTACT: Kelly Perkins / Katahdin

SAMPLERS (SIGNATURE)

FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876

ADDRESS

CARRIER/WAYBILL NUMBER

CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 2 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	Pesticide	PCB	Dioxin/Furan	TAL Metals				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	P				
PRESERVATIVE USED						4°C	4°C	4°C	4°C	HNO3				
4/20	1350	OU4-SB-042011-01	Aq	G	9	2	2	2	2	2				
↓	1400	OU4-SB-042011-01	↓	↓	↓	2	2	2	2	2				

1. RELINQUISHED BY	DATE 4/20/11	TIME 1409	1. RECEIVED BY	DATE 4/20/11	TIME 10:7
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER SED011 | PAGE 1 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins / Katadyn
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	Copper	TAL metals	4,4'-DDT	PCB Congeners	Dioxin/Furans				COMMENTS
CONTAINER TYPE PLASTIC (P) or GLASS (G)						G	G	G	G	G					
PRESERVATIVE USED						4°C	4°C	4°C	4°C	4°C					
4/18	1315	OU4-SD-M03-311B	Sed	C	2	1	1	✓	—	—	—				
	1335	OU4-SD-M04-211B			2	1	1	✓	—	—	—				
	1804	OU4-SD-M03-211B			2	1	1	✓	—	—	—				
	1815	OU4-SD-M03-111B			2	1	1	✓	—	—	—				
	1830	OU4-SD-M04-111B			2	1	1	✓	—	—	—				
	1835	OU4-SD-M04-311B			2	1	1	✓	—	—	—				
4/19	0720	OU4-SD-M01-111B			1	1	—	—	—	—	—				
	0740	OU4-SD-M01-211B			1	1	—	—	—	—	—				
	0755	OU4-SD-M01-311B			1	1	—	—	—	—	—				
	0000	OU4-FD-041911-01			1	1	—	—	—	—	—				
	1057	OU4-SD-M09-211B			4	1	—	1	✓	✓	1				
	1125	OU4-SD-M09-311B			4	1	—	1	✓	✓	1				
	1142	OU4-SD-M08-211B			4	1	—	1	✓	1	1				

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/20/11	1807	1. RECEIVED BY	4/20/11	1607
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER | PAGE 2 OF 4

PROJECT NO:	SITE NAME:	PROJECT MANAGER AND PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G02225	OU4	Dan Witt 412-921-7090	Kelly Perkins / Katahdin
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER AND PHONE NUMBER: S. Hill 412-921-8876	ADDRESS
		CARRIER/WAYBILL NUMBER	CITY, STATE

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2011	TIME	SAMPLE ID	MATRIX	GRAB (G) COMP (C)	No. OF CONTAINERS	PAH	TAL Metals	4,4'-DDT	PCB aroclors	Dioxin/Furans	Lead				COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)				G	G	G	G	G					
		PRESERVATIVE USED				4°C	4°C	4°C	4°C	4°C					
4/19	1210	OU4-SD-M07-211B	Sed	C	4 (5)	1	(1) ✓	1	1	—					*
	1225	OU4-SD-M07-311B			4 (5)	1	(1) ✓	1	1	—					*
	~~1340~~	~~OU4-SD-M12-511B~~			~~4~~	~~1~~	~~1~~	~~1~~	~~1~~						~~*~~ SEH
	1340	OU4-SD-M12-511B			1	1 SEH	—	—	—	(1) ✓					
	1350	OU4-SD-M12-411B			1	—	—	—	—	(1) ✓					
	1405	OU4-SD-M12-611B			1	—	—	—	—	(1) ✓					
	1412	OU4-SD-M12-311B			2	1	—	—	—	(1) ✓					
	1425	OU4-SD-M12-211B			2	1	—	—	—	(1) ✓					
	1740	OU4-SD-M05-211B		(6) ~~2~~ SEH 4		2	(2) ✓	—	—	—					Run MS/MSD
	1750	OU4-SD-M05-111B			2	1	(1) ✓	—	—	—					
	1800	OU4-SD-M05-411B			2	1	(1) ✓	—	—	—					
	1810	OU4-SD-M05-311B			2	1	(1) ✓	—	—	—					
↓	0000	OU4-FD-041911-02			2	1	(1) ✓	—	—	—					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	4/20/11	1607	1. RECEIVED BY	4/20/11	16:07
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS * Bottles have an extra 4 oz or 1 8oz. use extra volume as necessary

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

3/99
FORM NO. TINUS-001

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Tetra Tech	KAS PM:	KAP	Sampled By:	Client
Project:		KIMS Entry By:	GN	Delivered By:	KAS
KAS Work Order#:	SE2074	KIMS Review By:		Received By:	DD
SDG #:		Cooler: 1 of 4		Date/Time Rec.:	4/20/11 1710

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓	✓			
5. Temperature Blanks present? If not, take temperature of any sample w/.IR gun.	✓ ✓				Temp (°C): -0.1
Samples received at <6 °C w/o freezing?					Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
7. Trip Blank present in cooler?				✓	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

4-19-10 19:00. chain says M03-111B 12 jars. ~~each 1L~~ on jars say M08-111B. - per client, jars are correct

0000013

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
DIOX	NG/KG	OU4-SD-M09-111B	31100958012	NM	04/19/2011	04/28/2011	05/09/2011	9	11	20
DIOX	NG/KG	OU4-SD-M08-111B	31100958009	NM	04/19/2011	04/28/2011	05/09/2011	9	11	20
DIOX	NG/L	OU4-RB-042011-01	31100958013	NM	04/20/2011	04/28/2011	05/09/2011	8	11	19
DIOX	NG/L	OU4-SB-042011-01	31100958014	NM	04/20/2011	04/28/2011	05/09/2011	8	11	19
HG	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M08-311B	SE2074-027	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M08-111B	SE2074-029	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M07-311B	SE2074-015	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M07-211B	SE2074-014	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M07-111B	SE2074-026	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M05-411B	SE2074-023	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M05-311B	SE2074-024	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-FD-041911-03	SE2074-028	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HG	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	05/05/2011	05/06/2011	16	1	17
HG	UG/L	OU4-SB-042011-01	SE2074-033	NM	04/20/2011	04/25/2011	04/28/2011	5	3	8
HG	UG/L	OU4-RB-042011-01	SE2074-032	NM	04/20/2011	04/25/2011	04/28/2011	5	3	8
M	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M08-311B	SE2074-027	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M11-311B	SE2079-001	NM	04/21/2011	04/25/2011	04/26/2011	4	1	5
M	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M08-211B	SE2074-013	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M08-111B	SE2074-029	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M07-311B	SE2074-015	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-111B	SE2074-030	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-211B	SE2074-011	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	OU4-SD-M12-111B	SE2074-031	NM	04/20/2011	04/25/2011	04/27/2011	5	2	7
M	MG/KG	OU4-SD-M07-211B	SE2074-014	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M12-611B	SE2074-018	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M12-511B	SE2074-016	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M12-411B	SE2074-017	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M12-311B	SE2074-019	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M12-211B	SE2074-020	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M09-311B	SE2074-012	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M05-311B	SE2074-024	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M07-111B	SE2074-026	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-FD-041911-02	SE2074-025	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-FD-041911-03	SE2074-028	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M03-111B	SE2074-004	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	MG/KG	OU4-SD-M03-211B	SE2074-003	NM	04/18/2011	04/25/2011	04/27/2011	7	2	9
M	MG/KG	OU4-SD-M03-311B	SE2074-001	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	OU4-SD-M04-111B	SE2074-005	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	MG/KG	OU4-SD-M05-411B	SE2074-023	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M04-311B	SE2074-006	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	04/25/2011	04/27/2011	6	2	8
M	MG/KG	OU4-SD-M05-111B	SE2074-022	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	04/25/2011	04/26/2011	6	1	7
M	MG/KG	OU4-SD-M05-211B	SE2074-021	NM	04/19/2011	04/25/2011	05/09/2011	6	14	20
M	MG/KG	OU4-SD-M04-211B	SE2074-002	NM	04/18/2011	04/25/2011	04/26/2011	7	1	8
M	UG/L	OU4-RB-042011-01	SE2074-032	NM	04/20/2011	04/22/2011	04/26/2011	2	4	6
M	UG/L	OU4-SB-042011-01	SE2074-033	NM	04/20/2011	04/22/2011	04/26/2011	2	4	6
TS	%	OU4-SD-M09-211B	31100958001	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M09-111B	SE2074-30	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-611B	SE2074-18	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M09-111B	31100958012	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M08-111B	SE2074-29	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M08-311B	31100958007	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M08-211B	SE2074-13	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6

? incorrect analysis date several samples

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	OU4-SD-M08-311B	SE2074-27	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M09-311B	31100958002	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M11-311B	SE2079-1	NM	04/21/2011	04/23/2011	04/25/2011	2	2	4
TS	%	OU4-SD-M12-111B	SE2074-31	NM	04/20/2011	04/23/2011	04/25/2011	3	2	5
TS	%	OU4-SD-M12-411B	SE2074-17	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-311B	SE2074-19	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-211B	SE2074-20	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M08-211B	31100958003	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M09-211B	SE2074-11	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M12-511B	SE2074-16	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M03-211B	SE2074-3	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M07-311B	31100958005	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M07-211B	SE2074-14	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M07-211B	31100958004	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M07-111B	SE2074-26	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M07-111B	31100958006	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-SD-M05-411B	SE2074-23	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M05-311B	SE2074-24	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	OU4-SD-M05-211B	SE2074-21	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M04-311B	SE2074-6	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M07-311B	SE2074-15	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M03-311B	SE2074-1	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M05-111B	SE2074-22	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M03-111B	SE2074-4	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M01-311B	SE2074-9	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M01-211B	SE2074-8	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M01-111B	SE2074-7	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-FD-041911-03	SE2074-28	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-FD-041911-03	31100958008	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
TS	%	OU4-FD-041911-02	SE2074-25	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-FD-041911-01	SE2074-10	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M09-311B	SE2074-12	NM	04/19/2011	04/23/2011	04/25/2011	4	2	6
TS	%	OU4-SD-M04-111B	SE2074-5	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M04-211B	SE2074-2	NM	04/18/2011	04/23/2011	04/25/2011	5	2	7
TS	%	OU4-SD-M08-111B	31100958009	NM	04/19/2011	04/28/2011	04/28/2011	9	0	9
SIM	%	OU4-SD-M05-111B	SE2074-22	NM	04/19/2011	04/26/2011	05/06/2011	7	10	17

Field Duplicate Calculations

Parameters	Original Sample	Duplicate Sample	RPD
	M05-111	FD-02	
aluminum	14500	13700	5.67
arsenic	28.4	26.4	7.30
cadmium	0.79	0.77	2.56
chromium	55.7	51.6	7.64
copper	296	272	8.45
iron	27000	24400	10.12
lead	270	250	7.69
manganese	267	249	6.98
mercury	0.74	0.65	12.95
nickel	40.1	37.1	7.77
silver	0.94	0.89	5.46
zinc	304	282	7.51

Parameters	Original Sample	Duplicate Sample	RPD
	M07-111	FD-03	
aluminum	9530	8800	7.97
arsenic	8.8	8.1	8.28
cadmium	0.23	0.18	24.39
chromium	31.9	32.8	2.78
copper	15.7	19.8	23.10
iron	15200	13900	8.93
lead	17.3	18.2	5.07
manganese	131	127	3.10
mercury	0.05	0.05	0.00
nickel	18.8	17.9	4.90
silver	0.16	0.16	0.00
zinc	54.9	57	3.75

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: WE29-1 **SOW No.** SW846

Client Field ID	Lab Sample ID
OU4-FD-041911-02	SE2074-025
OU4-RB-042011-01	SE2074-032
OU4-SB-042011-01	SE2074-033
OU4-SD-FD-041911-03	SE2074-028
OU4-SD-M03-111B	SE2074-004
OU4-SD-M03-211B	SE2074-003
OU4-SD-M03-311B	SE2074-001
OU4-SD-M04-111B	SE2074-005
OU4-SD-M04-211B	SE2074-002
OU4-SD-M04-311B	SE2074-006
OU4-SD-M05-111B	SE2074-022
OU4-SD-M05-211B	SE2074-021
OU4-SD-M05-211B	SE2074-021A
OU4-SD-M05-211B	SE2074-021D
OU4-SD-M05-211B	SE2074-021S
OU4-SD-M05-311B	SE2074-024
OU4-SD-M05-411B	SE2074-023
OU4-SD-M07-111B	SE2074-026
OU4-SD-M07-211B	SE2074-014
OU4-SD-M07-311B	SE2074-015
OU4-SD-M08-111B	SE2074-029
OU4-SD-M08-111B	SE2074-029A
OU4-SD-M08-111B	SE2074-029D
OU4-SD-M08-111B	SE2074-029S

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Edward A. Morgan Name: Edward A. Morgan

Date: May 10, 2011 Title: Senior Analyst

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: WE29-1 **SOW No.** SW846

Client Field ID	Lab Sample ID
OU4-SD-M08-211B	SE2074-013
OU4-SD-M08-311B	SE2074-027
OU4-SD-M09-111B	SE2074-030
OU4-SD-M09-211B	SE2074-011
OU4-SD-M09-311B	SE2074-012
OU4-SD-M11-311B	SE2079-001
OU4-SD-M12-111B	SE2074-031
OU4-SD-M12-211B	SE2074-020
OU4-SD-M12-311B	SE2074-019
OU4-SD-M12-411B	SE2074-017
OU4-SD-M12-511B	SE2074-016
OU4-SD-M12-611B	SE2074-018

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Edward A. Morgan Name: Edward A. Morgan

Date: May 10, 2011 Title: Senior Analyst

COVER PAGE - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICV

File: HBD28A Apr 28, 2011 9:28

Analyte	True	Found	%R (1)
MERCURY	6.0	5.80	96.7

SAMPLE: CCV

File: HBD28A Apr 28, 2011 9:34

Analyte	True	Found	%R (1)
MERCURY	5.0	5.00	100.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: HBD28A Apr 28, 2011 9:57

Analyte	True	Found	%R (1)
MERCURY	5.0	5.08	101.6

SAMPLE: CCV

File: HBD28A Apr 28, 2011 10:23

Analyte	True	Found	%R (1)
MERCURY	5.0	5.08	101.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: HBD28A Apr 28, 2011 10:49

Analyte	True	Found	%R (1)
MERCURY	5.0	5.31	106.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICV

File: HBE06A May 06, 2011 14:08

Analyte	True	Found	%R (1)
MERCURY	6.0	5.79	96.5

SAMPLE: CCV

File: HBE06A May 06, 2011 14:33

Analyte	True	Found	%R (1)
MERCURY	5.0	4.70	94.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: HBE06A May 06, 2011 14:59

Analyte	True	Found	%R (1)
MERCURY	5.0	4.79	95.8

SAMPLE: CCV

File: HBE06A May 06, 2011 15:24

Analyte	True	Found	%R (1)
MERCURY	5.0	5.29	105.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICV

File: IBD26A Apr 26, 2011 16:14

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9687.00	96.9
ARSENIC	400.0	383.90	96.0
CADMIUM	400.0	393.80	98.5
CALCIUM	10000.0	9836.00	98.4
CHROMIUM	400.0	393.70	98.4
COPPER	400.0	388.90	97.2
IRON	10000.0	9957.00	99.6
LEAD	400.0	398.50	99.6
MAGNESIUM	10000.0	9976.00	99.8
MANGANESE	400.0	390.10	97.5
NICKEL	400.0	393.30	98.3
SILVER	400.0	394.60	98.7
ZINC	400.0	397.90	99.5

SAMPLE: CCV

File: IBD26A Apr 26, 2011 16:37

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12430.00	99.4
ARSENIC	500.0	499.40	99.9
CADMIUM	500.0	509.20	101.8
CALCIUM	12500.0	12840.00	102.7
CHROMIUM	500.0	503.90	100.8
COPPER	500.0	500.00	100.0
IRON	12500.0	12370.00	99.0
LEAD	500.0	501.20	100.2
MAGNESIUM	12500.0	12640.00	101.1
MANGANESE	500.0	494.90	99.0
NICKEL	500.0	508.40	101.7
SILVER	500.0	505.40	101.1
ZINC	500.0	503.30	100.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD26A Apr 26, 2011 17:32

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12480.00	99.8
ARSENIC	500.0	494.50	98.9
CADMIUM	500.0	507.30	101.5
CALCIUM	12500.0	13050.00	104.4
CHROMIUM	500.0	503.50	100.7
COPPER	500.0	499.00	99.8
IRON	12500.0	12520.00	100.2
LEAD	500.0	502.00	100.4
MAGNESIUM	12500.0	12540.00	100.3
MANGANESE	500.0	502.10	100.4
NICKEL	500.0	505.80	101.2
SILVER	500.0	503.20	100.6
ZINC	500.0	502.60	100.5

SAMPLE: CCV

File: IBD26A Apr 26, 2011 18:26

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12560.00	100.5
ARSENIC	500.0	501.00	100.2
CADMIUM	500.0	512.90	102.6
CALCIUM	12500.0	12920.00	103.4
CHROMIUM	500.0	510.00	102.0
COPPER	500.0	505.00	101.0
IRON	12500.0	12580.00	100.6
LEAD	500.0	510.70	102.1
MAGNESIUM	12500.0	12700.00	101.6
MANGANESE	500.0	504.80	101.0
NICKEL	500.0	511.90	102.4
SILVER	500.0	509.30	101.9
ZINC	500.0	510.40	102.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD26A Apr 26, 2011 19:21

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12710.00	101.7
ARSENIC	500.0	506.80	101.4
CADMIUM	500.0	519.80	104.0
CALCIUM	12500.0	13370.00	107.0
CHROMIUM	500.0	515.00	103.0
COPPER	500.0	509.60	101.9
IRON	12500.0	12860.00	102.9
LEAD	500.0	512.40	102.5
MAGNESIUM	12500.0	12820.00	102.6
MANGANESE	500.0	515.00	103.0
NICKEL	500.0	518.30	103.7
SILVER	500.0	519.80	104.0
ZINC	500.0	516.90	103.4

SAMPLE: CCV

File: IBD26A Apr 26, 2011 20:15

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12540.00	100.3
ARSENIC	500.0	505.20	101.0
CADMIUM	500.0	508.70	101.7
CALCIUM	12500.0	12460.00	99.7
CHROMIUM	500.0	517.10	103.4
COPPER	500.0	511.60	102.3
IRON	12500.0	12640.00	101.1
LEAD	500.0	517.90	103.6
MAGNESIUM	12500.0	12550.00	100.4
MANGANESE	500.0	510.80	102.2
NICKEL	500.0	511.70	102.3
SILVER	500.0	501.40	100.3
ZINC	500.0	514.20	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD26A Apr 26, 2011 21:11

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12490.00	99.9
ARSENIC	500.0	503.00	100.6
CADMIUM	500.0	506.00	101.2
CALCIUM	12500.0	12340.00	98.7
CHROMIUM	500.0	519.80	104.0
COPPER	500.0	506.40	101.3
IRON	12500.0	12660.00	101.3
LEAD	500.0	522.00	104.4
MAGNESIUM	12500.0	12390.00	99.1
MANGANESE	500.0	515.00	103.0
NICKEL	500.0	508.60	101.7
SILVER	500.0	498.70	99.7
ZINC	500.0	518.80	103.8

SAMPLE: CCV

File: IBD26A Apr 26, 2011 22:06

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12340.00	98.7
ARSENIC	500.0	500.90	100.2
CADMIUM	500.0	500.80	100.2
CALCIUM	12500.0	12010.00	96.1
CHROMIUM	500.0	511.40	102.3
COPPER	500.0	507.70	101.5
IRON	12500.0	12410.00	99.3
LEAD	500.0	517.70	103.5
MAGNESIUM	12500.0	12390.00	99.1
MANGANESE	500.0	502.90	100.6
NICKEL	500.0	505.10	101.0
SILVER	500.0	490.00	98.0
ZINC	500.0	511.60	102.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD26A Apr 26, 2011 23:01

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12280.00	98.2
ARSENIC	500.0	503.30	100.7
CADMIUM	500.0	501.00	100.2
CALCIUM	12500.0	11940.00	95.5
CHROMIUM	500.0	511.60	102.3
COPPER	500.0	505.20	101.0
IRON	12500.0	12430.00	99.4
LEAD	500.0	516.80	103.4
MAGNESIUM	12500.0	12310.00	98.5
MANGANESE	500.0	503.30	100.7
NICKEL	500.0	504.60	100.9
SILVER	500.0	486.30	97.3
ZINC	500.0	512.10	102.4

SAMPLE: CCV

File: IBD26A Apr 26, 2011 23:56

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12330.00	98.6
ARSENIC	500.0	502.90	100.6
CADMIUM	500.0	506.70	101.3
CALCIUM	12500.0	12280.00	98.2
CHROMIUM	500.0	514.40	102.9
COPPER	500.0	505.20	101.0
IRON	12500.0	12390.00	99.1
LEAD	500.0	516.60	103.3
MAGNESIUM	12500.0	12370.00	99.0
MANGANESE	500.0	502.00	100.4
NICKEL	500.0	507.70	101.5
SILVER	500.0	493.50	98.7
ZINC	500.0	514.10	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD26A Apr 27, 2011 0:19

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12270.00	98.2
ARSENIC	500.0	502.80	100.6
CADMIUM	500.0	505.00	101.0
CALCIUM	12500.0	12200.00	97.6
CHROMIUM	500.0	516.70	103.3
COPPER	500.0	505.20	101.0
IRON	12500.0	12370.00	99.0
LEAD	500.0	498.90	99.8
MAGNESIUM	12500.0	11990.00	95.9
MANGANESE	500.0	500.20	100.0
NICKEL	500.0	504.90	101.0
SILVER	500.0	493.20	98.6
ZINC	500.0	513.70	102.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICV

File: IBD27A Apr 27, 2011 13:54

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9455.00	94.5
ARSENIC	400.0	381.60	95.4
CADMIUM	400.0	390.40	97.6
CALCIUM	10000.0	9647.00	96.5
CHROMIUM	400.0	385.50	96.4
COPPER	400.0	378.60	94.7
IRON	10000.0	9668.00	96.7
LEAD	400.0	394.70	98.7
MAGNESIUM	10000.0	9880.00	98.8
NICKEL	400.0	386.40	96.6
SILVER	400.0	388.80	97.2

SAMPLE: CCV

File: IBD27A Apr 27, 2011 14:17

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12180.00	97.4
ARSENIC	500.0	496.20	99.2
CADMIUM	500.0	503.00	100.6
CALCIUM	12500.0	12740.00	101.9
CHROMIUM	500.0	492.90	98.6
COPPER	500.0	491.60	98.3
IRON	12500.0	12040.00	96.3
LEAD	500.0	500.20	100.0
MAGNESIUM	12500.0	12640.00	101.1
NICKEL	500.0	499.50	99.9
SILVER	500.0	497.60	99.5

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD27A Apr 27, 2011 15:11

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12230.00	97.8
ARSENIC	500.0	495.60	99.1
CADMIUM	500.0	504.80	101.0
CALCIUM	12500.0	12940.00	103.5
CHROMIUM	500.0	493.60	98.7
COPPER	500.0	487.10	97.4
IRON	12500.0	12260.00	98.1
LEAD	500.0	502.90	100.6
MAGNESIUM	12500.0	12570.00	100.6
NICKEL	500.0	502.00	100.4
SILVER	500.0	498.20	99.6

SAMPLE: CCV

File: IBD27A Apr 27, 2011 16:06

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12140.00	97.1
ARSENIC	500.0	493.10	98.6
CADMIUM	500.0	507.10	101.4
CALCIUM	12500.0	13200.00	105.6
CHROMIUM	500.0	488.60	97.7
COPPER	500.0	483.90	96.8
IRON	12500.0	12110.00	96.9
LEAD	500.0	496.70	99.3
MAGNESIUM	12500.0	12560.00	100.5
NICKEL	500.0	500.30	100.1
SILVER	500.0	495.50	99.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD27A Apr 27, 2011 17:00

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12090.00	96.7
ARSENIC	500.0	489.90	98.0
CADMIUM	500.0	506.40	101.3
CALCIUM	12500.0	13300.00	106.4
CHROMIUM	500.0	489.60	97.9
COPPER	500.0	479.70	95.9
IRON	12500.0	12060.00	96.5
LEAD	500.0	492.90	98.6
MAGNESIUM	12500.0	12460.00	99.7
NICKEL	500.0	498.60	99.7
SILVER	500.0	496.00	99.2

SAMPLE: CCV

File: IBD27A Apr 27, 2011 17:54

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12120.00	97.0
ARSENIC	500.0	491.60	98.3
CADMIUM	500.0	511.80	102.4
CALCIUM	12500.0	13720.00	109.8
CHROMIUM	500.0	487.90	97.6
COPPER	500.0	482.10	96.4
IRON	12500.0	12000.00	96.0
LEAD	500.0	485.70	97.1
MAGNESIUM	12500.0	12600.00	100.8
NICKEL	500.0	497.10	99.4
SILVER	500.0	495.50	99.1

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD27A Apr 27, 2011 18:49

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12110.00	96.9
ARSENIC	500.0	496.00	99.2
CADMIUM	500.0	507.90	101.6
CALCIUM	12500.0	13140.00	105.1
CHROMIUM	500.0	488.80	97.8
COPPER	500.0	484.20	96.8
IRON	12500.0	12010.00	96.1
LEAD	500.0	495.30	99.1
MAGNESIUM	12500.0	12630.00	101.0
NICKEL	500.0	499.70	99.9
SILVER	500.0	494.40	98.9

SAMPLE: CCV

File: IBD27A Apr 27, 2011 19:43

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12130.00	97.0
ARSENIC	500.0	497.70	99.5
CADMIUM	500.0	506.30	101.3
CALCIUM	12500.0	12740.00	101.9
CHROMIUM	500.0	492.30	98.5
COPPER	500.0	485.30	97.1
IRON	12500.0	12110.00	96.9
LEAD	500.0	502.00	100.4
MAGNESIUM	12500.0	12550.00	100.4
NICKEL	500.0	499.70	99.9
SILVER	500.0	491.40	98.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBD27A Apr 27, 2011 20:33

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12040.00	96.3
ARSENIC	500.0	500.90	100.2
CADMIUM	500.0	512.10	102.4
CALCIUM	12500.0	12960.00	103.7
CHROMIUM	500.0	500.60	100.1
COPPER	500.0	487.90	97.6
IRON	12500.0	12040.00	96.3
LEAD	500.0	505.20	101.0
MAGNESIUM	12500.0	12470.00	99.8
NICKEL	500.0	501.90	100.4
SILVER	500.0	488.80	97.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICV

File: IBE09A May 09, 2011 12:59

Analyte	True	Found	%R (1)
ALUMINUM	10000.0	9786.00	97.9
CALCIUM	10000.0	9991.00	99.9
IRON	10000.0	10060.00	100.6
MAGNESIUM	10000.0	10130.00	101.3
MANGANESE	400.0	397.40	99.3

SAMPLE: CCV

File: IBE09A May 09, 2011 13:22

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12620.00	101.0
CALCIUM	12500.0	12650.00	101.2
IRON	12500.0	12710.00	101.7
MAGNESIUM	12500.0	12730.00	101.8
MANGANESE	500.0	503.30	100.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBE09A May 09, 2011 14:17

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12620.00	101.0
CALCIUM	12500.0	12730.00	101.8
IRON	12500.0	12750.00	102.0
MAGNESIUM	12500.0	12590.00	100.7
MANGANESE	500.0	504.50	100.9

SAMPLE: CCV

File: IBE09A May 09, 2011 15:11

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12620.00	101.0
CALCIUM	12500.0	12880.00	103.0
IRON	12500.0	12700.00	101.6
MAGNESIUM	12500.0	12700.00	101.6
MANGANESE	500.0	501.20	100.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBE09A May 09, 2011 16:06

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12780.00	102.2
CALCIUM	12500.0	12720.00	101.8
IRON	12500.0	12810.00	102.5
MAGNESIUM	12500.0	12680.00	101.4
MANGANESE	500.0	506.10	101.2

SAMPLE: CCV

File: IBE09A May 09, 2011 17:01

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12690.00	101.5
CALCIUM	12500.0	12710.00	101.7
IRON	12500.0	12780.00	102.2
MAGNESIUM	12500.0	12650.00	101.2
MANGANESE	500.0	504.70	100.9

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBE09A May 09, 2011 17:56

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12750.00	102.0
CALCIUM	12500.0	12700.00	101.6
IRON	12500.0	12780.00	102.2
MAGNESIUM	12500.0	12720.00	101.8
MANGANESE	500.0	504.80	101.0

SAMPLE: CCV

File: IBE09A May 09, 2011 18:51

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12950.00	103.6
CALCIUM	12500.0	12530.00	100.2
IRON	12500.0	12840.00	102.7
MAGNESIUM	12500.0	12790.00	102.3
MANGANESE	500.0	507.90	101.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBE09A May 09, 2011 19:46

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12870.00	103.0
CALCIUM	12500.0	12400.00	99.2
IRON	12500.0	12860.00	102.9
MAGNESIUM	12500.0	12720.00	101.8
MANGANESE	500.0	509.80	102.0

SAMPLE: CCV

File: IBE09A May 09, 2011 20:41

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12990.00	103.9
CALCIUM	12500.0	12550.00	100.4
IRON	12500.0	12990.00	103.9
MAGNESIUM	12500.0	12740.00	101.9
MANGANESE	500.0	513.80	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCV

File: IBE09A May 09, 2011 21:36

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	13000.00	104.0
CALCIUM	12500.0	12480.00	99.8
IRON	12500.0	13050.00	104.4
MAGNESIUM	12500.0	12640.00	101.1
MANGANESE	500.0	516.50	103.3

SAMPLE: CCV

File: IBE09A May 09, 2011 22:30

Analyte	True	Found	%R (1)
ALUMINUM	12500.0	12690.00	101.5
CALCIUM	12500.0	12360.00	98.9
IRON	12500.0	12830.00	102.6
MAGNESIUM	12500.0	12590.00	100.7
MANGANESE	500.0	514.10	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

FORM II (Part 1) - IN

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: PQL

File: HBD28A Apr 28, 2011 09:32

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.19	95.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: PQL

File: HBE06A May 06, 2011 14:12

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.19	95.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: PQL

File: IBD26A Apr 26, 2011 16:23

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	302.40	100.8
ARSENIC	8.0	6.90	86.3
CADMIUM	5.0	4.92	98.4
CALCIUM	100.0	94.63	94.6
CHROMIUM	10.0	9.65	96.5
COPPER	25.0	25.15	100.6
IRON	100.0	100.00	100.0
LEAD	5.0	4.68	93.6
MAGNESIUM	100.0	101.00	101.0
MANGANESE	5.0	4.74	94.8
NICKEL	10.0	10.29	102.9
SILVER	10.0	9.93	99.3
ZINC	20.0	19.80	99.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: PQL

File: IBD27A Apr 27, 2011 14:03

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	298.40	99.5
ARSENIC	8.0	9.15	114.4
CADMIUM	5.0	4.98	99.6
CALCIUM	100.0	108.60	108.6
CHROMIUM	10.0	9.75	97.5
COPPER	25.0	24.25	97.0
IRON	100.0	88.72	88.7
LEAD	5.0	5.82	116.4
MAGNESIUM	100.0	104.40	104.4
NICKEL	10.0	10.42	104.2
SILVER	10.0	10.08	100.8

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: PQL

File: IBE09A May 09, 2011 13:08

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	303.50	101.2
CALCIUM	100.0	97.38	97.4
IRON	100.0	101.10	101.1
MAGNESIUM	100.0	103.60	103.6
MANGANESE	5.0	5.01	100.2

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICB

File: HBD28A Apr 28, 2011 9:30

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HBD28A Apr 28, 2011 9:36

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HBD28A Apr 28, 2011 9:59

Analyte	Result	C
MERCURY	0.030	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB

File: HBD28A Apr 28, 2011 10:25

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HBD28A Apr 28, 2011 10:51

Analyte	Result	C
MERCURY	0.030	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICB

File: HBE06A May 06, 2011 14:10

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HBE06A May 06, 2011 14:35

Analyte	Result	C
MERCURY	0.030	U

SAMPLE: CCB

File: HBE06A May 06, 2011 15:01

Analyte	Result	C
MERCURY	0.030	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB

File: HBE06A May 06, 2011 15:27

Analyte	Result	C
MERCURY	0.030	U

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** BE05HGS0

Matrix: SOIL **SDG Name:** WE29-1

Method: CV **Prep Date:** 05/05/2011

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSOBE05HGS0	LCSOBE05HGS0	0.1	0.1
PBSBE05HGS0	PBSBE05HGS0	0.6	0.1
OU4-SD-M09-211B	SE2074-011	0.61	0.1
OU4-SD-M09-311B	SE2074-012	0.73	0.1
OU4-SD-M08-211B	SE2074-013	0.61	0.1
OU4-SD-M07-211B	SE2074-014	0.74	0.1
OU4-SD-M07-311B	SE2074-015	0.73	0.1
OU4-SD-M05-211B	SE2074-021	0.6	0.1
OU4-SD-M05-211BD	SE2074-021D	0.68	0.1
OU4-SD-M05-211BS	SE2074-021S	0.72	0.1
OU4-SD-M05-111B	SE2074-022	0.69	0.1
OU4-SD-M05-411B	SE2074-023	0.74	0.1
OU4-SD-M05-311B	SE2074-024	0.61	0.1
OU4-FD-041911-02	SE2074-025	0.62	0.1
OU4-SD-M07-111B	SE2074-026	0.61	0.1
OU4-SD-M08-311B	SE2074-027	0.65	0.1
OU4-SD-FD-041911-03	SE2074-028	0.79	0.1
OU4-SD-M08-111B	SE2074-029	0.72	0.1
OU4-SD-M09-111B	SE2074-030	0.6	0.1

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: CETAC M6100 **File Name:** HBD28A

Date: 4/28/2011 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	9:15	Hg
Standard #1 (0.2 p		1	9:17	Hg
Standard #2 (0.5 p		1	9:19	Hg
Standard #3 (1.0 p		1	9:21	Hg
Standard #4 (5.0 p		1	9:24	Hg
Standard #5 (10.0		1	9:26	Hg
ICV		1	9:28	HG
ICB		1	9:30	HG
PQL		1	9:32	HG
CCV		1	9:34	HG
CCB		1	9:36	HG
ZZZZZZ		1	9:38	
ZZZZZZ		1	9:40	
ZZZZZZ		1	9:43	
ZZZZZZ		1	9:45	
ZZZZZZ		1	9:47	
ZZZZZZ		1	9:49	
ZZZZZZ		1	9:51	
ZZZZZZ		1	9:53	
LCSWBD25HGW1		1	9:55	HG
CCV		1	9:57	HG
CCB		1	9:59	HG
PBWBD25HGW1		1	10:02	HG
ZZZZZZ		1	10:04	
ZZZZZZ		1	10:06	
ZZZZZZ		1	10:08	
ZZZZZZ		1	10:10	
ZZZZZZ		1	10:12	
ZZZZZZ		1	10:14	
ZZZZZZ		1	10:16	
ZZZZZZ		1	10:19	
ZZZZZZ		5	10:21	
CCV		1	10:23	HG
CCB		1	10:25	HG
ZZZZZZ		1	10:27	
ZZZZZZ		1	10:29	
ZZZZZZ		1	10:31	
ZZZZZZ		1	10:34	
ZZZZZZ		5	10:36	
ZZZZZZ		1	10:38	
ZZZZZZ		1	10:40	
SE2074-032	OU4-RB-042011-01	1	10:42	HG
SE2074-033	OU4-SB-042011-01	1	10:44	HG
ZZZZZZ		1	10:46	
CCV		1	10:49	HG
CCB		1	10:51	HG

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: CETAC M6100 **File Name:** HBE06A

Date: 5/6/2011 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Calibration Blank		1	13:55	Hg
Standard #1 (0.2 p		1	13:57	Hg
Standard #2 (0.5 p		1	13:59	Hg
Standard #3 (1.0 p		1	14:02	Hg
Standard #4 (5.0 p		1	14:04	Hg
Standard #5 (10.0		1	14:06	Hg
ICV		1	14:08	HG
ICB		1	14:10	HG
PQL		1	14:12	HG
LCSOBE05HGS0		1	14:14	HG
PBSBE05HGS0		1	14:16	HG
SE2074-011	OU4-SD-M09-211B	1	14:18	HG
SE2074-012	OU4-SD-M09-311B	1	14:21	HG
SE2074-013	OU4-SD-M08-211B	1	14:23	HG
SE2074-014	OU4-SD-M07-211B	1	14:25	HG
SE2074-015	OU4-SD-M07-311B	1	14:27	HG
SE2074-021	OU4-SD-M05-211B	1	14:29	HG
SE2074-021L	OU4-SD-M05-211BL	5	14:31	HG
CCV		1	14:33	HG
CCB		1	14:35	HG
SE2074-021A	OU4-SD-M05-211BA	1	14:38	HG
SE2074-021D	OU4-SD-M05-211BD	1	14:40	HG
SE2074-021S	OU4-SD-M05-211BS	1	14:42	HG
SE2074-022	OU4-SD-M05-111B	1	14:44	HG
SE2074-023	OU4-SD-M05-411B	1	14:46	HG
SE2074-024	OU4-SD-M05-311B	1	14:48	HG
SE2074-025	OU4-FD-041911-02	1	14:50	HG
SE2074-026	OU4-SD-M07-111B	1	14:52	HG
SE2074-027	OU4-SD-M08-311B	1	14:55	HG
SE2074-028	OU4-SD-FD-041911-03	1	14:57	HG
CCV		1	14:59	HG
CCB		1	15:01	HG
SE2074-029	OU4-SD-M08-111B	1	15:03	HG
SE2074-030	OU4-SD-M09-111B	1	15:05	HG
ZZZZZZ		1	15:07	
ZZZZZZ		1	15:09	
ZZZZZZ		1	15:12	
ZZZZZZ		1	15:14	
ZZZZZZ		1	15:16	
ZZZZZZ		1	15:18	
ZZZZZZ		1	15:20	
ZZZZZZ		1	15:22	
CCV		1	15:24	HG
CCB		1	15:27	HG

FORM XIV - IN

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** BD25ICS1

Matrix: SOIL **SDG Name:** WE29-1

Method: P **Prep Date:** 04/25/2011

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSOBD25ICS1	LCSOBD25ICS1	1	0.1
PBSBD25ICS1	PBSBD25ICS1	1	0.1
OU4-SD-M05-111B	SE2074-022	2.49	0.1
OU4-SD-M05-411B	SE2074-023	2.97	0.1
OU4-SD-M05-311B	SE2074-024	2.2	0.1
OU4-FD-041911-02	SE2074-025	2.36	0.1
OU4-SD-M07-111B	SE2074-026	1.89	0.1
OU4-SD-M08-311B	SE2074-027	1.9	0.1
OU4-SD-FD-041911-03	SE2074-028	1.84	0.1
OU4-SD-M08-111B	SE2074-029	1.78	0.1
OU4-SD-M08-111BD	SE2074-029D	1.67	0.1
OU4-SD-M08-111BS	SE2074-029S	1.9	0.1
OU4-SD-M09-111B	SE2074-030	3.98	0.1
OU4-SD-M12-111B	SE2074-031	1.92	0.1
OU4-SD-M11-311B	SE2079-001	1.95	0.1

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** BD25ICS0

Matrix: SOIL **SDG Name:** WE29-1

Method: P **Prep Date:** 04/25/2011

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSOBD25ICS0	LCSOBD25ICS0	1	0.1
PBSBD25ICS0	PBSBD25ICS0	1	0.1
OU4-SD-M03-311B	SE2074-001	1.81	0.1
OU4-SD-M04-211B	SE2074-002	1.87	0.1
OU4-SD-M03-211B	SE2074-003	1.86	0.1
OU4-SD-M03-111B	SE2074-004	2.14	0.1
OU4-SD-M04-111B	SE2074-005	1.87	0.1
OU4-SD-M04-311B	SE2074-006	1.49	0.1
OU4-SD-M09-211B	SE2074-011	3.8	0.1
OU4-SD-M09-311B	SE2074-012	3.81	0.1
OU4-SD-M08-211B	SE2074-013	2.55	0.1
OU4-SD-M07-211B	SE2074-014	2.8	0.1
OU4-SD-M07-311B	SE2074-015	2.88	0.1
OU4-SD-M12-511B	SE2074-016	1.89	0.1
OU4-SD-M12-411B	SE2074-017	2.13	0.1
OU4-SD-M12-611B	SE2074-018	2.04	0.1
OU4-SD-M12-311B	SE2074-019	2.87	0.1
OU4-SD-M12-211B	SE2074-020	3.37	0.1
OU4-SD-M05-211B	SE2074-021	2.91	0.1
OU4-SD-M05-211BD	SE2074-021D	2.79	0.1
OU4-SD-M05-211BS	SE2074-021S	2.87	0.1

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSBD25ICS1

Matrix: SOIL **SDG Name:** WE29-1

QC Batch ID: BD25ICS1

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
ALUMINUM	10	U
ARSENIC	-0.084	J
CADMIUM	0.30	U
CHROMIUM	0.036	J
COPPER	1.0	U
IRON	1.976	J
LEAD	-0.132	[illegible]
MANGANESE	0.40	U
NICKEL	0.40	U
SILVER	0.40	U
ZINC	1.0	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSBD25ICS0

Matrix: SOIL **SDG Name:** WE29-1

QC Batch ID: BD25ICS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
ALUMINUM	10	U
ARSENIC	-0.081	J
CADMIUM	0.30	U
CHROMIUM	0.032	J
COPPER	1.0	U
IRON	2.741	J
LEAD	-0.119	J
MANGANESE	0.40	U
NICKEL	-0.054	J
SILVER	-0.033	J
ZINC	1.0	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSBE05HGS0

Matrix: SOIL **SDG Name:** WE29-1

QC Batch ID: BE05HGS0

Concentration Units : mg/Kgdrywt

Analyte	RESULT	C
MERCURY	0.017	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICB

File: IBD26A Apr 26, 2011 16:19

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	2.620	U
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB

File: IBD26A Apr 26, 2011 16:42

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.717	J
IRON	2.620	U
LEAD	-1.705	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB

File: IBD26A Apr 26, 2011 17:36

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	2.620	U
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBD26A

Date: 4/26/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements											
Blank		1	16:05	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
Std 1		1	16:10	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
ICV		1	16:14	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
ICB		1	16:19	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
PQL		1	16:23	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
ICSA		1	16:28	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
ICSAB		1	16:33	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
CCV		1	16:37	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
CCB		1	16:42	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
ZZZZZZ		1	16:46														
ZZZZZZ		1	16:51														
ZZZZZZ		1	16:55														
ZZZZZZ		1	17:00														
ZZZZZZ		5	17:05														
ZZZZZZ		1	17:09														
ZZZZZZ		1	17:14														
ZZZZZZ		1	17:18														
ZZZZZZ		1	17:23														
ZZZZZZ		1	17:27														
CCV		1	17:32	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
CCB		1	17:36	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
PBSBD25ICS1		1	17:41	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
LCSOBD25ICS1		1	17:45	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
ZZZZZZ		1	17:50														
ZZZZZZ		1	17:54														
ZZZZZZ		5	17:59														
ZZZZZZ		1	18:03														
ZZZZZZ		1	18:08														
ZZZZZZ		1	18:12														
ZZZZZZ		1	18:17														
ZZZZZZ		1	18:21														
CCV		1	18:26	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
CCB		1	18:30	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
SE2074-022	OU4-SD-M05-111B	1	18:35	AL													ZN
SE2074-023	OU4-SD-M05-411B	1	18:40	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-024	OU4-SD-M05-311B	1	18:44	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-025	OU4-FD-041911-02	1	18:49	AL													ZN
SE2074-026	OU4-SD-M07-111B	1	18:53	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-027	OU4-SD-M08-311B	1	18:58	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-028	OU4-SD-FD-041911-03	1	19:02	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-029	OU4-SD-M08-111B	1	19:07	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-029L	OU4-SD-M08-111BL	5	19:12	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-029A	OU4-SD-M08-111BA	1	19:16	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
CCV		1	19:21	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
CCB		1	19:25	AL	AS		CD	CA	CR	CU	FE	PB	MG	MN	NI	AG	ZN
SE2074-029D	OU4-SD-M08-111BD	1	19:30	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-029S	OU4-SD-M08-111BS	1	19:34	AL	AS		CD		CR	CU	FE	PB		MN	NI	AG	ZN
SE2074-030	OU4-SD-M09-111B	1	19:39	AL													ZN
ZZZZZZ		1	19:43														
SE2079-001	OU4-SD-M11-311B	1	19:48							CU		PB			NI		

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBD26A

Date: 4/26/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements											
PBWBD22ICW0		1	19:53	AL	AS	CD	CR	CU	FE	PB	MN	NI	AG		ZN
LCSWBD22ICW0		1	19:57	AL	AS	CD	CR	CU	FE	PB	MN	NI	AG		ZN
SE2074-032	OU4-RB-042011-01	1	20:02	AL	AS	CD	CR	CU	FE	PB	MN	NI	AG		ZN
SE2074-033	OU4-SB-042011-01	1	20:06	AL	AS	CD	CR	CU	FE	PB	MN	NI	AG		ZN
ZZZZZZ		10	20:11												
CCV		1	20:15	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
CCB		1	20:20	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
ZZZZZZ		10	20:24												
ZZZZZZ		10	20:29												
ZZZZZZ		10	20:34												
ZZZZZZ		10	20:38												
ZZZZZZ		10	20:43												
ZZZZZZ		10	20:48												
ZZZZZZ		10	20:52												
ZZZZZZ		10	20:57												
ZZZZZZ		10	21:02												
ZZZZZZ		2	21:06												
CCV		1	21:11	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
CCB		1	21:15	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
ZZZZZZ		10	21:20												
ZZZZZZ		2	21:25												
ZZZZZZ		2	21:29												
ZZZZZZ		2	21:34												
ZZZZZZ		10	21:38												
ZZZZZZ		10	21:43												
ZZZZZZ		10	21:48												
ZZZZZZ		10	21:52												
ZZZZZZ		10	21:57												
PBSBD25ICS0		1	22:02	AL	AS	CD	CR	CU	FE	PB	MN	NI	AG		ZN
CCV		1	22:06	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
CCB		1	22:11	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
LCSOBD25ICS0		1	22:15	AL	AS	CD	CR	CU	FE	PB	MN	NI	AG		ZN
SE2074-001	OU4-SD-M03-311B	1	22:20					CU							
SE2074-002	OU4-SD-M04-211B	1	22:24					CU							
ZZZZZZ		1	22:29												
SE2074-004	OU4-SD-M03-111B	1	22:33					CU							
SE2074-005	OU4-SD-M04-111B	1	22:38					CU							
SE2074-006	OU4-SD-M04-311B	1	22:42					CU							
SE2074-011	OU4-SD-M09-211B	1	22:47	AL											ZN
SE2074-012	OU4-SD-M09-311B	1	22:52	AL											ZN
SE2074-013	OU4-SD-M08-211B	1	22:56	AL											ZN
CCV		1	23:01	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
CCB		1	23:05	AL	AS	CD	CA	CR	CU	FE	PB	MG	MN	NI	AG		ZN
[illegible]	[illegible]-211B	1	23:10	AL	AS	CD		CR	CU	FE	PB		MN	NI	AG		[illegible]
SE2074-015	OU4-SD-M07-311B	1	23:14	AL	AS	CD		CR	CU	FE	PB		MN	NI	AG		ZN
ZZZZZZ		1	23:19														
SE2074-017	OU4-SD-M12-411B	1	23:24								PB						
SE2074-018	OU4-SD-M12-611B	1	23:28								PB						
SE2074-019	OU4-SD-M12-311B	1	23:33								PB						
ZZZZZZ		1	23:38														
SE2074-021	OU4-SD-M05-211B	1	23:42	AL													ZN

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBD26A

Date: 4/26/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements							
SE2074-021L	OU4-SD-M05-211BL	5	23:47	AL							ZN
SE2074-021D	OU4-SD-M05-211BD	1	23:52	AL							ZN
CCV		1	23:56	AL	AS	CD CA CR	CU FE PB MG MN	NI	AG		ZN
CCB		1	0:01	AL	AS	CD CA CR	CU FE PB MG MN	NI	AG		ZN
SE2074-021A	OU4-SD-M05-211BA	1	0:05	AL							ZN
SE2074-021S	OU4-SD-M05-211BS	1	0:10	AL							ZN
ZZZZZZ		1	0:15								
CCV		1	0:19	AL	AS	CD CA CR	CU FE PB MG MN	NI	AG		ZN
CCB		1	0:23	AL	AS	CD CA CR	CU FE PB MG MN	NI	AG		ZN

FORM XIV - IN

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB
File: IBD26A Apr 26, 2011 18:30

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	2.620	U
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB
File: IBD26A Apr 26, 2011 19:25

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	1.182	J
IRON	2.620	U
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB
File: IBD26A Apr 26, 2011 20:20

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	-0.608	J
IRON	2.665	J
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB
File: IBD26A Apr 26, 2011 21:15

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	3.047	J
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB
File: IBD26A Apr 26, 2011 22:11

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	2.620	U
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB
File: IBD26A Apr 26, 2011 23:05

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	-1.460	J
IRON	4.337	J
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBD27A

Date: 4/27/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements						
Blank		1	13:45	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
Std 1		1	13:50	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ICV		1	13:54	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ICB		1	13:59	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
PQL		1	14:03	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ICSA		1	14:08	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ICSAB		1	14:13	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
CCV		1	14:17	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
CCB		1	14:22	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ZZZZZZ		1	14:26							
ZZZZZZ		1	14:31							
ZZZZZZ		1	14:35							
ZZZZZZ		1	14:40							
ZZZZZZ		1	14:44							
ZZZZZZ		1	14:49							
ZZZZZZ		1	14:53							
ZZZZZZ		1	14:58							
ZZZZZZ		1	15:02							
ZZZZZZ		1	15:07							
CCV		1	15:11	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
CCB		1	15:16	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ZZZZZZ		1	15:20							
ZZZZZZ		1	15:25							
ZZZZZZ		1	15:30							
ZZZZZZ		1	15:34							
ZZZZZZ		1	15:39							
ZZZZZZ		1	15:43							
ZZZZZZ		1	15:48							
ZZZZZZ		1	15:52							
ZZZZZZ		1	15:57							
ZZZZZZ		1	16:01							
CCV		1	16:06	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
CCB		1	16:10	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ZZZZZZ		1	16:15							
ZZZZZZ		1	16:19							
ZZZZZZ		5	16:24							
ZZZZZZ		1	16:28							
ZZZZZZ		1	16:33							
ZZZZZZ		1	16:37							
ZZZZZZ		1	16:42							
ZZZZZZ		1	16:46							
ZZZZZZ		1	16:51							
ZZZZZZ		1	16:55							
CCV		1	17:00	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
CCB		1	17:04	AL	AS	CD CA CR	CU FE PB MG	NI	AG	
ZZZZZZ		1	17:09							
ZZZZZZ		1	17:13							
ZZZZZZ		1	17:18							
ZZZZZZ		1	17:22							
ZZZZZZ		1	17:27							

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBD27A

Date: 4/27/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements								
ZZZZZZ		1	17:32									
SE2074-031	OU4-SD-M12-111B	2	17:36						PB			
ZZZZZZ		1	17:41									
ZZZZZZ		1	17:45									
ZZZZZZ		50	17:50									
CCV		1	17:54	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
CCB		1	17:59	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
ZZZZZZ		100	18:03									
ZZZZZZ		100	18:08									
ZZZZZZ		100	18:12									
ZZZZZZ		100	18:17									
ZZZZZZ		100	18:22									
ZZZZZZ		100	18:26									
ZZZZZZ		100	18:31									
ZZZZZZ		100	18:35									
ZZZZZZ		100	18:40									
ZZZZZZ		100	18:45									
CCV		1	18:49	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
CCB		1	18:53	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
ZZZZZZ		100	18:58									
ZZZZZZ		100	19:03									
ZZZZZZ		1	19:07									
SE2074-003	OU4-SD-M03-211B	5	19:12						CU			
SE2074-011	OU4-SD-M09-211B	2	19:16		AS	CD		CR	CU FE PB		NI	AG
SE2074-012	OU4-SD-M09-311B	2	19:21		AS	CD		CR	CU FE PB		NI	AG
SE2074-013	OU4-SD-M08-211B	2	19:25		AS	CD		CR	CU FE PB		NI	AG
SE2074-016	OU4-SD-M12-511B	5	19:30							PB		
SE2074-020	OU4-SD-M12-211B	2	19:34							PB		
SE2074-021	OU4-SD-M05-211B	2	19:39		AS	CD		CR	CU FE PB		NI	AG
CCV		1	19:43	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
CCB		1	19:48	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
SE2074-021L	OU4-SD-M05-211BL	10	19:52		AS	CD		CR	CU FE PB		NI	AG
SE2074-021A	OU4-SD-M05-211BA	2	19:57		AS	CD		CR	CU FE PB		NI	AG
SE2074-021D	OU4-SD-M05-211BD	2	20:01		AS	CD		CR	CU FE PB		NI	AG
SE2074-021S	OU4-SD-M05-211BS	2	20:06		AS	CD		CR	CU FE PB		NI	AG
ZZZZZZ		10	20:10									
SE2074-022	OU4-SD-M05-111B	2	20:15		AS	CD		CR	CU FE PB		NI	AG
SE2074-025	OU4-FD-041911-02	2	20:19		AS	CD		CR	CU FE PB		NI	AG
SE2074-030	OU4-SD-M09-111B	2	20:24		AS	CD		CR	CU FE PB		NI	AG
ZZZZZZ		2	20:28									
CCV		1	20:33	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG
CCB		1	20:37	AL	AS	CD	CA	CR	CU FE PB MG		NI	AG

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBE09A

Date: 5/9/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
Blank		1	12:50	AL	CA	FE	MGMN
Std 1		1	12:55	AL	CA	FE	MGMN
ICV		1	12:59	AL	CA	FE	MGMN
ICB		1	13:03	AL	CA	FE	MGMN
PQL		1	13:08	AL	CA	FE	MGMN
ICSA		1	13:13	AL	CA	FE	MGMN
ICSAB		1	13:17	AL	CA	FE	MGMN
CCV		1	13:22	AL	CA	FE	MGMN
CCB		1	13:27	AL	CA	FE	MGMN
ZZZZZZ		1	13:31				
ZZZZZZ		1	13:36				
ZZZZZZ		1	13:40				
ZZZZZZ		1	13:45				
ZZZZZZ		1	13:49				
ZZZZZZ		1	13:54				
ZZZZZZ		1	13:58				
ZZZZZZ		1	14:03				
ZZZZZZ		1	14:08				
ZZZZZZ		1	14:12				
CCV		1	14:17	AL	CA	FE	MGMN
CCB		1	14:21	AL	CA	FE	MGMN
ZZZZZZ		1	14:26				
ZZZZZZ		1	14:31				
ZZZZZZ		1	14:35				
ZZZZZZ		5	14:40				
ZZZZZZ		1	14:44				
ZZZZZZ		1	14:49				
ZZZZZZ		1	14:53				
ZZZZZZ		1	14:58				
ZZZZZZ		1	15:02				
ZZZZZZ		1	15:07				
CCV		1	15:11	AL	CA	FE	MGMN
CCB		1	15:16	AL	CA	FE	MGMN
ZZZZZZ		1	15:20				
ZZZZZZ		1	15:25				
ZZZZZZ		5	15:30				
ZZZZZZ		1	15:34				
ZZZZZZ		1	15:39				
ZZZZZZ		1	15:43				
ZZZZZZ		1	15:48				
ZZZZZZ		1	15:52				
ZZZZZZ		1	15:57				
ZZZZZZ		1	16:02				
CCV		1	16:06	AL	CA	FE	MGMN
CCB		1	16:11	AL	CA	FE	MGMN
ZZZZZZ		1	16:15				
ZZZZZZ		1	16:20				
ZZZZZZ		1	16:24				
ZZZZZZ		1	16:29				
ZZZZZZ		1	16:34				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBE09A

Date: 5/9/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
ZZZZZZ		1	16:38				
ZZZZZZ		1	16:43				
ZZZZZZ		1	16:48				
ZZZZZZ		1	16:52				
ZZZZZZ		1	16:57				
CCV		1	17:01	AL	CA	FE	MGMN
CCB		1	17:06	AL	CA	FE	MGMN
ZZZZZZ		1	17:10				
ZZZZZZ		1	17:15				
ZZZZZZ		1	17:19				
ZZZZZZ		50	17:24				
ZZZZZZ		1	17:29				
ZZZZZZ		1	17:33				
ZZZZZZ		1	17:38				
ZZZZZZ		1	17:42				
ZZZZZZ		1	17:47				
ZZZZZZ		5	17:52				
CCV		1	17:56	AL	CA	FE	MGMN
CCB		1	18:00	AL	CA	FE	MGMN
ZZZZZZ		1	18:05				
ZZZZZZ		1	18:10				
ZZZZZZ		1	18:14				
ZZZZZZ		1	18:19				
ZZZZZZ		1	18:23				
ZZZZZZ		1	18:28				
ZZZZZZ		1	18:32				
ZZZZZZ		1	18:37				
ZZZZZZ		1	18:42				
ZZZZZZ		1	18:46				
CCV		1	18:51	AL	CA	FE	MGMN
CCB		1	18:55	AL	CA	FE	MGMN
ZZZZZZ		1	19:00				
ZZZZZZ		1	19:04				
ZZZZZZ		1	19:09				
ZZZZZZ		1	19:13				
ZZZZZZ		1	19:18				
ZZZZZZ		1	19:23				
ZZZZZZ		1	19:27				
ZZZZZZ		1	19:32				
ZZZZZZ		1	19:36				
ZZZZZZ		1	19:41				
CCV		1	19:46	AL	CA	FE	MGMN
CCB		1	19:50	AL	CA	FE	MGMN
ZZZZZZ		1	19:55				
ZZZZZZ		1	19:59				
ZZZZZZ		100	20:04				
ZZZZZZ		100	20:09				
ZZZZZZ		2	20:13				
ZZZZZZ		2	20:18				
ZZZZZZ		1	20:23				
ZZZZZZ		1	20:27				

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Instrument ID: THERMO ICAP 6500 **File Name:** IBE09A

Date: 5/9/2011 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
ZZZZZZ		5	20:32					
ZZZZZZ		1	20:37					
CCV		1	20:41	AL	CA	FE	MG	MN
CCB		1	20:46	AL	CA	FE	MG	MN
ZZZZZZ		1	20:50					
ZZZZZZ		1	20:55					
ZZZZZZ		1	20:59					
ZZZZZZ		1	21:04					
ZZZZZZ		1	21:09					
ZZZZZZ		1	21:13					
SE2074-011	OU4-SD-M09-211B	2	21:18					MN
SE2074-012	OU4-SD-M09-311B	2	21:22					MN
SE2074-013	OU4-SD-M08-211B	2	21:27					MN
SE2074-021	OU4-SD-M05-211B	2	21:32					MN
CCV		1	21:36	AL	CA	FE	MG	MN
CCB		1	21:40	AL	CA	FE	MG	MN
SE2074-021L	OU4-SD-M05-211BL	10	21:45					MN
SE2074-021A	OU4-SD-M05-211BA	2	21:50					MN
SE2074-021D	OU4-SD-M05-211BD	2	21:54					MN
SE2074-021S	OU4-SD-M05-211BS	2	21:59					MN
SE2074-022	OU4-SD-M05-111B	2	22:03					MN
SE2074-025	OU4-FD-041911-02	2	22:08					MN
SE2074-030	OU4-SD-M09-111B	2	22:12					MN
ZZZZZZ		1	22:17					
ZZZZZZ		1	22:21					
ZZZZZZ		1	22:26					
CCV		1	22:30	AL	CA	FE	MG	MN
CCB		1	22:35	AL	CA	FE	MG	MN

FORM XIV - IN

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB
File: IBD26A Apr 27, 2011 0:01

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	-0.804	J
IRON	2.620	U
LEAD	1.630	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.380	U

SAMPLE: CCB
File: IBD26A Apr 27, 2011 0:23

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	-0.338	J
CALCIUM	12.630	J
CHROMIUM	0.670	U
COPPER	-0.663	J
IRON	14.320	J
LEAD	-6.206	B
MAGNESIUM	-125.100	B
MANGANESE	1.010	U
NICKEL	0.640	U
SILVER	0.540	U
ZINC	0.777	J

no samples affected

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICB

File: IBD27A Apr 27, 2011 13:59

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	-6.595	J
LEAD	1.630	U
MAGNESIUM	-4.901	J
NICKEL	0.640	U
SILVER	0.540	U

SAMPLE: CCB

File: IBD27A Apr 27, 2011 14:22

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.675	J
IRON	-3.361	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

SAMPLE: CCB

File: IBD27A Apr 27, 2011 15:16

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	-5.924	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB
File: IBD27A Apr 27, 2011 16:10

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	-6.603	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

SAMPLE: CCB
File: IBD27A Apr 27, 2011 17:04

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.801	J
IRON	-6.123	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

SAMPLE: CCB
File: IBD27A Apr 27, 2011 17:59

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.937	J
IRON	-5.538	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

Pb only

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB
File: IBD27A Apr 27, 2011 18:53

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	-5.876	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

SAMPLE: CCB
File: IBD27A Apr 27, 2011 19:48

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	-2.764	J
LEAD	1.630	U
MAGNESIUM	4.330	U
NICKEL	0.640	U
SILVER	0.540	U

SAMPLE: CCB
File: IBD27A Apr 27, 2011 20:37

Analyte	Result	C
ALUMINUM	11.320	U
ARSENIC	2.550	U
CADMIUM	0.250	U
CALCIUM	10.060	U
CHROMIUM	0.670	U
COPPER	0.530	U
IRON	-3.388	J
LEAD	1.630	U
MAGNESIUM	-13.410	J
NICKEL	0.640	U
SILVER	0.540	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICB

File: IBE09A May 09, 2011 13:03

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.620	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB

File: IBE09A May 09, 2011 13:27

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.620	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB

File: IBE09A May 09, 2011 14:21

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.620	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB

File: IBE09A May 09, 2011 15:16

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	4.135	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB

File: IBE09A May 09, 2011 16:11

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.620	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB

File: IBE09A May 09, 2011 17:06

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	3.585	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB

File: IBE09A May 09, 2011 18:00

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	3.945	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB

File: IBE09A May 09, 2011 18:55

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.994	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB

File: IBE09A May 09, 2011 19:50

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	3.660	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: CCB
File: IBE09A May 09, 2011 20:46

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.620	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB
File: IBE09A May 09, 2011 21:40

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	3.017	J
MAGNESIUM	4.330	U
MANGANESE	1.010	U

SAMPLE: CCB
File: IBE09A May 09, 2011 22:35

Analyte	Result	C
ALUMINUM	11.320	U
CALCIUM	10.060	U
IRON	2.620	U
MAGNESIUM	4.330	U
MANGANESE	1.010	U

Mn only

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWBD22ICW0

Matrix: WATER **SDG Name:** WE29-1

QC Batch ID: BD22ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ALUMINUM	100	U
ARSENIC	5.0	U
CADMIUM	3.0	U
CHROMIUM	4.0	U
COPPER	10	U
IRON	6.577	J
LEAD	4.0	U
MANGANESE	4.0	U
NICKEL	4.0	U
SILVER	4.0	U
ZINC	10	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWBD25HGW1

Matrix: WATER **SDG Name:** WE29-1

QC Batch ID: BD25HGW1

Concentration Units : ug/L

Analyte	RESULT	C
MERCURY	0.10	U

SDGWE29-1

soil

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
As	FD-02	26.4		Fe	200000	4	24400	0.49	na	na
Cd		0.77			200000	2	24400	0.24	J	na
Cr		51.6			200000	6	24400	0.73	na	na
Cu		272			200000	9	24400	1.10	na	na
Pb		250			200000	4	24400	0.49	na	na
Ni		37.1			200000	2	24400	0.24	na	na
Ag		0.89			200000	-4	24400	-0.49	J	na
As	5-111	28.4		Fe	200000	4	27000	0.54	na	na
Cd		0.79			200000	2	27000	0.27	J	na
Cr		55.7			200000	6	27000	0.81	na	na
Cu		296			200000	9	27000	1.22	na	na
Pb		270			200000	4	27000	0.54	na	na
Ni		40.1			200000	2	27000	0.27	na	na
Ag		0.94			200000	-4	27000	-0.54	J	na
As	5-211	16.2		Fe	200000	4	23100	0.46	na	na
Cd		0.32			200000	2	23100	0.23	J	na
Cr		58.2			200000	6	23100	0.69	na	na
Cu		72.1			200000	9	23100	1.04	na	na
Pb		78.1			200000	4	23100	0.46	na	na
Ni		22.6			200000	2	23100	0.23	na	na
Ag		0.34			200000	-4	23100	-0.46	J	na
As	8-211	16.2		Fe	200000	4	21300	0.43	na	na
Cd		0.35			200000	2	21300	0.21	J	na
Cr		52.3			200000	6	21300	0.64	na	na
Cu		113			200000	9	21300	0.96	na	na
Pb		102			200000	4	21300	0.43	na	na
Ni		26.9			200000	2	21300	0.21	na	na
Ag		0.43			200000	-4	21300	-0.43	J	na
As	9-111	18		Fe	200000	4	28000	0.56	na	na
Cd		0.53			200000	2	28000	0.28	J	na
Cr		79.6			200000	6	28000	0.84	na	na
Cu		112			200000	9	28000	1.26	na	na
Pb		78.1			200000	4	28000	0.56	na	na

Ni		34			200000	2	28000	0.28	na	na
Ag		0.73			200000	-4	28000	-0.56	J	na

As	9-211	16.9		Fe	200000	4	27100	0.54	na	na
Cd		0.85			200000	2	27100	0.27	J	na
Cr		86			200000	6	27100	0.81	na	na
Cu		93.2			200000	9	27100	1.22	na	na
Pb		133			200000	4	27100	0.54	na	na
Ni		31.8			200000	2	27100	0.27	na	na
Ag		0.52			200000	-4	27100	-0.54	J	na

As	9-311	17.8		Fe	200000	4	28500	0.57	na	na
Cd		0.75			200000	2	28500	0.29	J	na
Cr		88.8			200000	6	28500	0.86	na	na
Cu		99			200000	9	28500	1.28	na	na
Pb		93.4			200000	4	28500	0.57	na	na
Ni		35.1			200000	2	28500	0.29	na	na
Ag		0.56			200000	-4	28500	-0.57	J	na

As	FD-03	8.1		Fe	200000	4	13900	0.28	na	na
Cd		0.18			200000	3	13900	0.21	J	na
Cr		32.8			200000	6	13900	0.42	na	na
Cu		19.8			200000	8	13900	0.56	na	na
Pb		18.2			200000	2	13900	0.14	na	na
Ni		17.9			200000	-2	13900	-0.14	na	na
Ag		0.16			200000	4	13900	0.28	J	na

As	5-311	8.2		Fe	200000	4	15000	0.30	na	na
Cd		0.32			200000	3	15000	0.23	J	na
Cr		40.6			200000	6	15000	0.45	na	na
Cu		13.1			200000	8	15000	0.60	na	na
Pb		21.6			200000	2	15000	0.15	na	na
Ni		20.9			200000	-2	15000	-0.15	na	na
Ag		0.26			200000	4	15000	0.30	J	na

As	5-411	13.8		Fe	200000	4	20500	0.41	na	na
Cd		0.5			200000	3	20500	0.31	J	na
Cr		52.1			200000	6	20500	0.62	na	na
Cu		57			200000	8	20500	0.82	na	na
Pb		57.5			200000	2	20500	0.21	na	na
Ni		20.9			200000	-2	20500	-0.21	na	na

Ag		0.3			200000	4	20500	0.41	J	na

As	7-111	8.8		Fe	200000	4	15200	0.30	na	na
Cd		0.23			200000	3	15200	0.23	J	na
Cr		31.9			200000	6	15200	0.46	na	na
Cu		15.7			200000	8	15200	0.61	na	na
Pb		17.3			200000	2	15200	0.15	na	na
Ni		18.8			200000	-2	15200	-0.15	na	na
Ag		0.16			200000	4	15200	0.30	J	na

As	7-211	13.5		Fe	200000	4	23400	0.47	na	na
Cd		0.79			200000	3	23400	0.35	J	na
Cr		72.6			200000	6	23400	0.70	na	na
Cu		27.7			200000	8	23400	0.94	na	na
Pb		41.7			200000	2	23400	0.23	na	na
Ni		21			200000	-2	23400	-0.23	na	na
Ag		0.64			200000	4	23400	0.47	J	na

As	7-311	12.6		Fe	200000	4	20800	0.42	na	na
Cd		0.63			200000	3	20800	0.31	J	na
Cr		57.5			200000	6	20800	0.62	na	na
Cu		20.1			200000	8	20800	0.83	na	na
Pb		31.5			200000	2	20800	0.21	na	na
Ni		19.3			200000	-2	20800	-0.21	na	na
Ag		0.57			200000	4	20800	0.42	J	na

As	8-111	13.2		Fe	200000	4	15200	0.30	na	na
Cd		0.19			200000	3	15200	0.23	J	na
Cr		28.9			200000	6	15200	0.46	na	na
Cu		43.4			200000	8	15200	0.61	na	na
Pb		39.7			200000	2	15200	0.15	na	na
Ni		15.2			200000	-2	15200	-0.15	na	na
Ag		0.18			200000	4	15200	0.30	J	na

As	8-311	14.4		Fe	200000	4	13800	0.28	na	na
Cd		0.1			200000	3	13800	0.21	J	na
Cr		22.2			200000	6	13800	0.41	na	na
Cu		26.4			200000	8	13800	0.55	na	na
Pb		25.4			200000	2	13800	0.14	na	na
Ni		10.1			200000	-2	13800	-0.14	na	na
Ag		0.16			200000	4	13800	0.28	J	na

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICSA

File: IBD27A Apr 27, 2011 14:08

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	488700	97.7
ARSENIC	0	4	
CADMIUM	0	2	
CALCIUM	500000	476000	95.2
CHROMIUM	3	6	
COPPLR	0	9	
IRON	200000	183200	91.6
LEAD	0	4	
MAGNESIUM	500000	469600	93.9
NICKEL	0	2	
SILVER	0	-4	

SAMPLE: ICSAB

File: IBD27A Apr 27, 2011 14:13

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	487100	97.4
ARSENIC	100	104	104.0
CADMIUM	1000	925	92.5
CALCIUM	500000	462300	92.5
CHROMIUM	500	474	94.8
COPPER	500	517	103.4
IRON	200000	179900	90.0
LEAD	50	50	100.0
MAGNESIUM	500000	466200	93.2
NICKEL	1000	889	88.9
SILVER	200	213	106.5

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICSA

File: IBD26A Apr 26, 2011 16:28

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	494500	98.9
ARSENIC	0	4	
CADMIUM	0	3	
CALCIUM	500000	474400	94.9
CHROMIUM	3	6	
COPPER	0	8	
IRON	200000	185400	92.7
LEAD	0	0	
MAGNESIUM	500000	465200	93.0
MANGANESE	2	-1	
NICKEL	0	2	
SILVER	0	-2	
ZINC	0	4	

SAMPLE: ICSAB

File: IBD26A Apr 26, 2011 16:33

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	497400	99.5
ARSENIC	100	103	103.0
CADMIUM	1000	934	93.4
CALCIUM	500000	471300	94.3
CHROMIUM	500	487	97.4
COPPER	500	529	105.8
IRON	200000	185200	92.6
LEAD	50	46	92.0
MAGNESIUM	500000	463100	92.6
MANGANESE	502	472	94.0
NICKEL	1000	900	90.0
SILVER	200	215	107.5
ZINC	1000	917	91.7

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WE29-1

Concentration Units: ug/L

SAMPLE: ICSA

File: IBE09A May 09, 2011 13:13

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	510800	102.2
CALCIUM	500000	476500	95.3
IRON	200000	189000	94.5
MAGNESIUM	500000	475400	95.1
MANGANESE	2	-1	

SAMPLE: ICSAB

File: IBE09A May 09, 2011 13:17

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	502400	100.5
CALCIUM	500000	472100	94.4
IRON	200000	185100	92.5
MAGNESIUM	500000	473600	94.7
MANGANESE	502	479	95.4

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** OU4-SD-M05-211BS

Matrix: SOIL | **SDG Name:** WE29-1

Percent Solids: 39.9 | **Lab Sample ID:** SE2074-021S

Concentration Units : mg/Kgdrywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	15970.3130		14132.6749		174.54	1052.8		80	120	P
ARSENIC, TOTAL	24.4965		16.2156		8.73	94.9		80	120	P
CADMIUM, TOTAL	21.6079		0.3226	J	21.82	97.5		80	120	P
CHROMIUM, TOTAL	78.3156		58.2005		17.45	115.3		80	120	P
COPPER, TOTAL	90.6730		72.1093		21.82	85.1		80	120	P
IRON, TOTAL	23615.1182		23066.7289		87.27	628.4		80	120	P
LEAD, TOTAL	86.8331		78.0912		8.73	100.1		80	120	P
MANGANESE, TOTAL	300.5561		247.9673		43.63	120.5		80	120	P
MERCURY, TOTAL	0.6596		0.3799		0.35	79.9	N	80	120	CV
NICKEL, TOTAL	63.9598		22.6450		43.63	94.7		80	120	P
SILVER, TOTAL	4.7265		0.3423	J	4.36	100.6		80	120	P
ZINC, TOTAL	163.8921		122.6496		43.63	94.5		80	120	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** OU4-SD-M08-111BS

Matrix: SOIL | **SDG Name:** WE29-1

Percent Solids: 67.6 | **Lab Sample ID:** SE2074-029S

Concentration Units : mg/Kgdrywt

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	10685.6659		8330.0729		155.77	1512.2		80	120	P
ARSENIC, TOTAL	20.7950		13.2267		7.79	97.2		80	120	P
CADMIUM, TOTAL	18.8868		0.1936	J	19.47	96.0		80	120	P
CHROMIUM, TOTAL	45.8113		28.9474		15.58	108.2		80	120	P
COPPER, TOTAL	72.7825		43.3879		19.47	151.0	N	80	120	P
IRON, TOTAL	17632.9064		15155.4121		77.88	3181.2		80	120	P
LEAD, TOTAL	47.9453		39.7133		7.79	105.7		80	120	P
MANGANESE, TOTAL	181.0800		128.9415		38.94	133.9	N	80	120	P
NICKEL, TOTAL	55.0483		15.2469		38.94	102.2		80	120	P
SILVER, TOTAL	4.2166		0.1846	J	3.89	103.7		80	120	P
ZINC, TOTAL	169.3195		86.2936		38.94	213.2	N	80	120	P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** OU4-SD-M05-211BS

Matrix: SOIL | **SDG Name:** WE29-1

Percent Solids: 39.9 | **Lab Sample ID:** SE2074-021A

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ARSENIC, TOTAL	577.0000		94.2000		500	96.6		75	125	P
CADMIUM, TOTAL	485.0000		1.8740	J	500	96.6		75	125	P
CHROMIUM, TOTAL	813.5000		338.1000		500	95.1		75	125	P
COPPER, TOTAL	893.0000		418.9000		500	94.8		75	125	P
LEAD, TOTAL	909.5000		453.6500		500	91.2		75	125	P
MANGANESE, TOTAL	1894.0000		1440.5000		500	90.7		75	125	P
MERCURY, TOTAL	1.8770		0.9100		1	96.7		75	125	CV
NICKEL, TOTAL	595.5000		131.5500		500	92.8		75	125	P
SILVER, TOTAL	482.6500		1.9885	J	500	96.1		75	125	P

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** OU4-SD-M08-111BS

Matrix: SOIL | **SDG Name:** WE29-1

Percent Solids: 67.6 | **Lab Sample ID:** SE2074-029A

Concentration Units : ug/L

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	109000.0000		100200.0000		10500	83.8		75	125	P
ARSENIC, TOTAL	654.1000		159.1000		500	99.0		75	125	P
CADMIUM, TOTAL	493.7000		2.3290	J	500	98.3		75	125	P
CHROMIUM, TOTAL	838.3000		348.2000		500	98.0		75	125	P
COPPER, TOTAL	1014.0000		521.9000		500	98.4		75	125	P
IRON, TOTAL	186600.0000		182300.0000		5500	78.2		75	125	P
LEAD, TOTAL	945.4000		477.7000		500	93.5		75	125	P
MANGANESE, TOTAL	2029.0000		1551.0000		500	95.6		75	125	P
NICKEL, TOTAL	665.2000		183.4000		500	96.4		75	125	P
SILVER, TOTAL	508.0000		2.2200	J	500	101.2		75	125	P
ZINC, TOTAL	1505.0000		1038.0000		500	93.4		75	125	P

Comments:

DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M05-211BD

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 39.9 **Lab Sample ID:** SE2074-021D

Concentration Units : mg/Kgdrywt

Analyte	Control Limits	Sample Result	C	Duplicate Result	C	RPD	Q	M
ALUMINUM, TOTAL		14132.6749		15270.1863		7.7		P
ARSENIC, TOTAL		16.2156		15.0098		7.7		P
CADMIUM, TOTAL		0.3226	J	0.3512	J	8.5		P
CHROMIUM, TOTAL		58.2005		59.4289		2.1		P
COPPER, TOTAL		72.1093		72.5267		0.6		P
IRON, TOTAL		23066.7289		22873.8593		0.8		P
LEAD, TOTAL		78.0912		80.4625		3.0		P
MANGANESE, TOTAL		247.9673		248.2191		0.1		P
MERCURY, TOTAL	0.074	0.3799		0.3256		15.4		CV
NICKEL, TOTAL	7.2	22.6450		22.9367		1.3		P
SILVER, TOTAL		0.3423	J	0.4165	J	19.6		P
ZINC, TOTAL		122.6496		166.8858		30.6	* OK	P

Comments:

DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M08-111BD

Matrix: SOIL **SDG Name:** WE29-1

Percent Solids: 67.6 **Lab Sample ID:** SE2074-029D

Concentration Units : mg/Kgdrywt

Analyte	Control Limits	Sample Result	C	Duplicate Result	C	RPD	Q	M
ALUMINUM, TOTAL		8330.0729		8324.9455		0.1		P
ARSENIC, TOTAL		13.2267		12.7156		3.9		P
CADMIUM, TOTAL		0.1936	J	0.1598	J	19.1		P
CHROMIUM, TOTAL		28.9474		27.8502		3.9		P
COPPER, TOTAL		43.3879		52.9536		19.9		P
IRON, TOTAL		15155.4121		15533.4002		2.5		P
LEAD, TOTAL		39.7133		35.6657		10.7		P
MANGANESE, TOTAL		128.9415		133.2700		3.3		P
NICKEL, TOTAL	3.5	15.2469		17.4917		13.7		P
SILVER, TOTAL		0.1846	J	0.2624	J	34.8		P
ZINC, TOTAL		86.2936		89.3193		3.4		P

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOBD25ICS0

Matrix: SOIL **SDG Name:** WE29-1

QC Batch ID: BD25ICS0

Concentration Units : mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	200.0	202.10	101.1	80	120
ARSENIC	10.0	10.02	100.2	80	120
CADMIUM	25.0	25.39	101.6	80	120
CHROMIUM	20.0	21.12	105.6	80	120
COPPER	25.0	26.28	105.1	80	120
IRON	100.0	108.50	108.5	80	120
LEAD	10.0	10.49	104.9	80	120
MANGANESE	50.0	50.81	101.6	80	120
NICKEL	50.0	51.54	103.1	80	120
SILVER	5.0	4.94	98.8	80	120
ZINC	50.0	52.29	104.6	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOBD25ICS1

Matrix: SOIL **SDG Name:** WE29-1

QC Batch ID: BD25ICS1

Concentration Units : mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	200.0	204.10	102.1	80	120
ARSENIC	10.0	10.06	100.6	80	120
CADMIUM	25.0	26.12	104.5	80	120
CHROMIUM	20.0	20.79	103.9	80	120
COPPER	25.0	25.97	103.9	80	120
IRON	100.0	108.10	108.1	80	120
LEAD	10.0	10.10	101.0	80	120
MANGANESE	50.0	50.76	101.5	80	120
NICKEL	50.0	52.16	104.3	80	120
SILVER	5.0	5.19	103.8	80	120
ZINC	50.0	51.88	103.8	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOBE05HGS0

Matrix: SOIL **SDG Name:** WE29-1

QC Batch ID: BE05HGS0

Concentration Units : mg/Kgdrywt

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.0	4.93	98.6	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWBD22ICW0

Matrix: WATER **SDG Name:** WE29-1

QC Batch ID: BD22ICW0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	2000.0	2084.00	104.2	80	120
ARSENIC	100.0	104.40	104.4	80	120
CADMIUM	250.0	268.70	107.5	80	120
CHROMIUM	200.0	215.30	107.7	80	120
COPPER	250.0	268.80	107.5	80	120
IRON	1000.0	1092.00	109.2	80	120
LEAD	100.0	108.30	108.3	80	120
MANGANESE	500.0	527.90	105.6	80	120
NICKEL	500.0	537.20	107.4	80	120
SILVER	50.0	52.02	104.0	80	120
ZINC	500.0	543.20	108.6	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSWBD25HGW1

Matrix: WATER **SDG Name:** WE29-1

QC Batch ID: BD25HGW1

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.0	4.72	94.4	80	120

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** OU4-SD-M05-211BL

Matrix: SOIL **SDG Name:** WE29-1

Lab Sample ID: SE2074-021L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ALUMINUM, TOTAL	164200.00		168400.00		2.6		P
ARSENIC, TOTAL	94.20		99.60		5.7		P
CADMIUM, TOTAL	1.87	J	1.92	J	2.7		P
CHROMIUM, TOTAL	338.10		355.05		5.0		P
COPPER, TOTAL	418.90		428.30		2.2		P
IRON, TOTAL	134000.00		140450.00		4.8		P
LEAD, TOTAL	453.65		491.25		8.3		P
MANGANESE, TOTAL	1440.50		1500.50		4.2		P
MERCURY, TOTAL	0.91		0.96	J	5.5		CV
NICKEL, TOTAL	131.55		140.50	J	6.8		P
SILVER, TOTAL	1.99	J	5.11	J	156.8		P
ZINC, TOTAL	1425.00		1560.00		9.5		P

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services

Matrix: SOIL

Client Field ID: OU4-SD-M08-111BL

SDG Name: WE29-1

Lab Sample ID: SE2074-029L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ALUMINUM, TOTAL	100200.00		102900.00		2.7		P
ARSENIC, TOTAL	159.10		161.30		1.4		P
CADMIUM, TOTAL	2.33	J	0.08	U	100.0		P
CHROMIUM, TOTAL	348.20		361.40		3.8		P
COPPER, TOTAL	521.90		531.80		1.9		P
IRON, TOTAL	182300.00		199200.00		9.3		P
LEAD, TOTAL	477.70		519.40		8.7		P
MANGANESE, TOTAL	1551.00		1633.00		5.3		P
NICKEL, TOTAL	183.40		193.30	J	5.4		P
SILVER, TOTAL	2.22	J	5.04	J	127.0		P
ZINC, TOTAL	1038.00		1104.00		6.4		P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/7/2011

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.03	CV

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 2/17/2011

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	11.32	P
ARSENIC	8.0	2.55	P
CADMIUM	10	0.25	P
CALCIUM	100	10.06	P
CHROMIUM	15	0.67	P
COPPER	25	0.53	P
IRON	100	2.62	P
LEAD	5.0	1.63	P
MAGNESIUM	100	4.33	P
MANGANESE	5.0	1.01	P
NICKEL	40	0.64	P
SILVER	15	0.54	P
ZINC	25	0.38	P

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/7/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.02	mg/Kg	CV	SW846 7471A / 7471

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
MERCURY	0.10	ug/L	CV	SW846 7470A / 7470

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ALUMINUM	100.00	ug/L	P	SW846 3010A / 6010/200.7
ARSENIC	5.00	ug/L	P	SW846 3010A / 6010/200.7
CADMIUM	3.00	ug/L	P	SW846 3010A / 6010/200.7
CHROMIUM	4.00	ug/L	P	SW846 3010A / 6010/200.7
COPPER	10.00	ug/L	P	SW846 3010A / 6010/200.7
IRON	80.00	ug/L	P	SW846 3010A / 6010/200.7
LEAD	4.00	ug/L	P	SW846 3010A / 6010/200.7
MANGANESE	4.00	ug/L	P	SW846 3010A / 6010/200.7
NICKEL	4.00	ug/L	P	SW846 3010A / 6010/200.7
SILVER	4.00	ug/L	P	SW846 3010A / 6010/200.7
ZINC	10.00	ug/L	P	SW846 3010A / 6010/200.7

LIMITS of DETECTION

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/20/2011

Analyte	LOD	Units	M	EPA Prep./Anal. Method
ALUMINUM	10.00	mg/Kg	P	SW846 3050B / 6010/200.7
ARSENIC	0.50	mg/Kg	P	SW846 3050B / 6010/200.7
CADMIUM	0.30	mg/Kg	P	SW846 3050B / 6010/200.7
CHROMIUM	0.40	mg/Kg	P	SW846 3050B / 6010/200.7
COPPER	1.00	mg/Kg	P	SW846 3050B / 6010/200.7
IRON	8.00	mg/Kg	P	SW846 3050B / 6010/200.7
LEAD	0.40	mg/Kg	P	SW846 3050B / 6010/200.7
MANGANESE	0.40	mg/Kg	P	SW846 3050B / 6010/200.7
NICKEL	0.40	mg/Kg	P	SW846 3050B / 6010/200.7
SILVER	0.40	mg/Kg	P	SW846 3050B / 6010/200.7
ZINC	1.00	mg/Kg	P	SW846 3050B / 6010/200.7

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 1/7/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.005	mg/Kg	CV	SW846 7471A / SW846 7471A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** H

Instrument Name: CETAC M6100 **Date:** 2/9/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
MERCURY	0.01	ug/L	CV	SW846 7470A / SW846 7470A

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/19/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ALUMINUM	14.80	ug/L	P	SW846 3010A / SW846 6010B
ARSENIC	1.43	ug/L	P	SW846 3010A / SW846 6010B
CADMIUM	0.05	ug/L	P	SW846 3010A / SW846 6010B
CHROMIUM	0.36	ug/L	P	SW846 3010A / SW846 6010B
COPPER	0.63	ug/L	P	SW846 3010A / SW846 6010B
IRON	5.42	ug/L	P	SW846 3010A / SW846 6010B
LEAD	1.07	ug/L	P	SW846 3010A / SW846 6010B
MANGANESE	1.06	ug/L	P	SW846 3010A / SW846 6010B
NICKEL	0.28	ug/L	P	SW846 3010A / SW846 6010B
SILVER	0.27	ug/L	P	SW846 3010A / SW846 6010B
ZINC	0.72	ug/L	P	SW846 3010A / SW846 6010B

METHOD DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** I

Instrument Name: THERMO ICAP 6500 **Date:** 1/20/2011

Analyte	MDL	Units	M	EPA Prep./Anal. Method
ALUMINUM	0.71	mg/Kg	P	SW846 3050B / SW846 6010B
ARSENIC	0.07	mg/Kg	P	SW846 3050B / SW846 6010B
CADMIUM	0.008	mg/Kg	P	SW846 3050B / SW846 6010B
CHROMIUM	0.03	mg/Kg	P	SW846 3050B / SW846 6010B
COPPER	0.16	mg/Kg	P	SW846 3050B / SW846 6010B
IRON	1.42	mg/Kg	P	SW846 3050B / SW846 6010B
LEAD	0.09	mg/Kg	P	SW846 3050B / SW846 6010B
MANGANESE	0.16	mg/Kg	P	SW846 3050B / SW846 6010B
NICKEL	0.04	mg/Kg	P	SW846 3050B / SW846 6010B
SILVER	0.03	mg/Kg	P	SW846 3050B / SW846 6010B
ZINC	0.17	mg/Kg	P	SW846 3050B / SW846 6010B

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** BD22ICW0

Matrix: WATER **SDG Name:** WE29-1

Method: P **Prep Date:** 04/22/2011

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWBD22ICW0	LCSWBD22ICW0	0.05	0.05
PBWBD22ICW0	PBWBD22ICW0	0.05	0.05
OU4-RB-042011-01	SE2074-032	0.05	0.05
OU4-SB-042011-01	SE2074-033	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** BD25HGW1

Matrix: WATER **SDG Name:** WE29-1

Method: CV **Prep Date:** 04/25/2011

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWBD25HGW1	LCSWBD25HGW1	0.025	0.025
PBWBD25HGW1	PBWBD25HGW1	0.025	0.025
OU4-RB-042011-01	SE2074-032	0.025	0.025
OU4-SB-042011-01	SE2074-033	0.025	0.025

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL	LOD
MBLANK	WG90643	ASTM D2216	25-APR-11	23-APR-11	U 1 %	1 %	N/A
MBLANK	WG90645	ASTM D2216	25-APR-11	23-APR-11	U 1 %	1 %	N/A

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG90643-2	LCS	WG90643	25-APR-11	23-APR-11	%	90	90.	100	80-120	
WG90645-2	LCS	WG90645	25-APR-11	23-APR-11	%	90	90.	100	80-120	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Quality Control Report

Duplicate Sample Summary Report

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG90645-3	SE2074-21	WG90645	25-APR-11	%	40.	40.	0	20
WG90643-4	SE2074-18	WG90643	25-APR-11	%	50.	52.	3	20
WG90645-4	SE2074-29	WG90645	25-APR-11	%	68.	69.	2	20
WG90643-3	SE2074-1	WG90643	25-APR-11	%	45.	44.	2	20

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Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Flags	DF
PQL					CRDL	05/06/11 02:12:39 pm	0.190	784	7.18		1.00
Replicates	753.2	720.4	836.6	825.8							
% Recovery	94.75										
LCSOBE05HGS0					LCS	05/06/11 02:14:45 pm	4.927	19658	0.21		1.00
Replicates	19630.7	19673.2	19709.5	19618.7							
% Recovery	98.55										
PBSBE05HGS0					PBK	05/06/11 02:16:52 pm	0.005	50	41.33		1.00
Replicates	52.7	29.6	78.2	41.1							
SE2074-011					UNK	05/06/11 02:18:59 pm	0.760	3056	1.05		1.00
Replicates	3016.4	3094.7	3054.9	3059.9							
SE2074-012 Sample OU4-SD-MW09-311B					UNK	05/06/11 02:21:06 pm	0.885	3554	0.65		1.00
Replicates	3544.8	3551.0	3533.5	3587.3							
SE2074-013					UNK	05/06/11 02:23:14 pm	1.059	4247	0.61		1.00
Replicates	4266.6	4237.4	4214.3	4267.9							
SE2074-014					UNK	05/06/11 02:25:20 pm	0.711	2863	1.10		1.00
Replicates	2892.4	2845.2	2827.9	2886.9							
SE2074-015					UNK	05/06/11 02:27:27 pm	0.404	1638	1.25		1.00
Replicates	1618.0	1661.2	1624.7	1650.1							
SE2074-021					UNK	05/06/11 02:29:35 pm	0.910	3655	1.09		1.00
Replicates	3598.9	3684.4	3654.9	3682.6							
SE2074-021L					UNK	05/06/11 02:31:42 pm	0.962	796	2.97		5.00
Replicates	789.0	770.7	795.4	827.4							
CCV					CCV	05/06/11 02:33:50 pm	4.699	18747	0.98		1.00
Replicates	18947.0	18809.8	18722.3	18510.1							
% Recovery	93.98										
CCB					CCB	05/06/11 02:35:55 pm	-0.001	27	74.76		1.00
Replicates	43.9	21.2	0.8	40.7							

rep result Hg = 0.46 mg/kg

$$\left(\frac{0.885\,ug}{L}\right)\left(\frac{0.1\,L}{.73\,g}\right)\left(\frac{1\,mg}{1000\,ug}\right)\left(\frac{1000\,g}{1\,kg}\right)\left(\frac{1}{.266}\right) = 0.4558\ mg/kg$$

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sample 004-SD-M09-211B rep result arsenic 16.9 mg/kg

$\left(\frac{178.0ug}{L}\right)\left(\frac{0.1L}{3.8g}\right)\left(\frac{1mg}{1000ug}\right)\left(\frac{1000g}{1kg}\right)\left(\frac{1}{.276}\right) = 16.97$ mg/kg

SE2074-011

Method Name: K6010-2010+Pd Method Revision: 123
Analyst Name: DWM
Acquire Date: 27/04/2011 19:16:48 Sample Type: Unknown

Elem	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	5.425	ug/L	0.4688	8.6400	-690.85
Al3961_R	176100.	ug/L	318.4995	0.1809	92,333.03
As1891_A	178.0	ug/L	0.6396	0.3594	19.45
Au2427_A	-9.306	ug/L	1.0993	11.8131	67.92
B_2089_A	580.4	ug/L	0.8409	0.1449	221.13
Ba4554_R	555.8	ug/L	0.3162	0.0569	19,537.56
Be3130_R	10.27	ug/L	0.0716	0.6973	252.48
Ca3158_R	88190.	ug/L	121.5974	0.1379	22,173.68
Cd2265_A	8.980	ug/L	0.1356	1.5103	165.99
Co2286_A	74.67	ug/L	0.0137	0.0184	119.05
Cr2677_A	903.0	ug/L	0.8225	0.0911	3,626.43
Cu3273_A	979.1	ug/L	1.4392	0.1470	4,718.51
Fe2599_R	284900.	ug/L	685.3692	0.2406	270,952.36
K_7664_R	61100.	ug/L	101.6214	0.1663	22,362.15
Li6707_R	444.5	ug/L	1.8911	0.4254	3,022.80
Mg2025_A	108100.	ug/L	20.7108	0.0192	6,986.10
Mn2576_R	2772.	ug/L	6.1733	0.2227	11,489.25
Mo2020_A	15.39	ug/L	0.2458	1.5969	12.64
Na5895_R	238700.	ug/L	296.0547	0.1240	278,242.29
Ni2316_A	334.0	ug/L	1.1125	0.3331	189.67
Pb2203_A	1402.	ug/L	0.1890	0.0135	412.98
Sb2068_A	-.4271	ug/L	2.7112	634.7282	1.89
Se1960_A	4.832	ug/L	3.8766	80.2238	1.94
Si2516_R	3982.	ug/L	30.8260	0.7742	836.30
Sn1899_A	88.25	ug/L	0.8924	1.0112	15.23
Sr4215_R	688.4	ug/L	0.0015	0.0002	27,258.05
Ti3349_A	10400.	ug/L	8.4843	0.0816	125,328.71
Tl1908_A	-2.907	ug/L	1.5445	53.1341	-2.91
V_2924_A	542.6	ug/L	0.4036	0.0744	2,951.66
Zn2062_A	1899.	ug/L	0.0332	0.0017	1,790.83
Pd3404	-20.50	ppb	0.6814	3.3236	-110.43
Y_3600_R	27612.	Cts/S	12.2104	0.0442	27,611.61
Y_2243_A	5367.8	Cts/S	3.8373	0.0715	5,367.80
Y_3600_A	198510.	Cts/S	47.3001	0.0238	198,513.99

SE2074-012

Method Name: K6010-2010+Pd Method Revision: 123
Analyst Name: DWM
Acquire Date: 27/04/2011 19:21:15 Sample Type: Unknown

Elem	Avg	Units	Stddev	%RSD	Intensity Ratio
Ag3280_A	5.636	ug/L	1.1595	20.5744	-702.05
Al3961_R	188700.	ug/L	981.7413	0.5202	97,758.71
As1891_A	180.9	ug/L	4.4287	2.4477	19.73
Au2427_A	-7.103	ug/L	2.5099	35.3334	71.29
B_2089_A	586.7	ug/L	0.5703	0.0972	222.81
Ba4554_R	613.2	ug/L	1.7237	0.2811	21,288.17
Be3130_R	10.90	ug/L	0.0005	0.0050	250.38
Ca3158_R	81250.	ug/L	141.9357	0.1747	20,180.73
Cd2265_A	7.612	ug/L	0.8310	10.9171	162.34
Co2286_A	74.62	ug/L	1.3496	1.8087	121.41
Cr2677_A	899.6	ug/L	0.8884	0.0988	3,618.79
Cu3273_A	1003.	ug/L	4.0375	0.4025	4,837.99
Fe2599_R	288700.	ug/L	3,785.4564	1.3113	271,215.87
K_7664_R	65830.	ug/L	393.7554	0.5981	23,800.39
Li6707_R	463.2	ug/L	1.5902	0.3433	3,110.00
Mg2025_A	107000.	ug/L	183.7074	0.1717	6,896.19
Mn2576_R	2880.	ug/L	32.6784	1.1346	11,794.33