



FINAL LAB REPORT

Prepared by

SGS NORTH AMERICA

Prepared for

This report is approved by

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PROJECT INFORMATION SUMMARY *(When applicable, see QC Annotations for details)*

Client Project
SGS Project #
Analytical Protocol(s)
No. Samples Submitted
Additional QC Sample(s)
No. Laboratory Method Blanks
No. OPRs / Batch CS3
Date Received
Condition Received
Temperature upon Receipt (°C)
Extraction within Holding Time
Analysis within Holding Time



QC ANNOTATIONS:

1. Please see Appendices attached for data qualifier/attribute and lab identifier descriptions which may be contained in the project.

APPENDIX A: GENERAL DATA QUALIFIERS / DATA ATTRIBUTES

B	The analyte was found in the method blank, at a concentration that was at least 10% of the concentration in the sample.
C	Two or more congeners co-elute. In EDDs, C denotes the lowest IUPAC congener in a co-elution group and additional co-eluters for the group are shown with the number of the lowest IUPAC co-eluter.
E	The reported concentration exceeds the calibration range (upper point of the calibration curve) and is an estimated value.
EMPC	Represents an Estimated Maximum Possible Concentration. EMPCs arise in cases where the signal/noise ratio is not sufficient for peak identification (the determined ion-abundance ratio is outside the allowed theoretical range), or where there is a co-eluting interference.
H/h	If the standard recovery is below the method or SOP specified value "H" is assigned. If the obtained value is less than half the specified value "h" is assigned.
J	Indicates that an analyte has a concentration below the reporting limit (lowest point of the calibration curve) and is an estimated value.
ND	Indicates a non-detect.
NR or R	Indicates a value that is not reportable.
PR	Due to interference, the associated congener is poorly resolved.
QI	Indicates the presence of a quantitative interference.
SI	Denotes "Single Ion Mode" and is utilized for PCBs where the secondary ion trace has a significantly elevated noise level due to background PFK. Responses for such peaks are calculated using an EMPC approach based solely on the primary ion area(s) and may be considered estimates.
U	The analyte was not detected. The estimated detection limit (EDL) may be reported for this analyte.
V	The labeled standard recovery was found to be outside of the method control limits.



APPENDIX B: DRBC/TMDL SPECIFIC DATA QUALIFIERS / DATA ATTRIBUTES

J	The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL).
U	The analyte was not detected in the sample at the estimated detection limit (EDL).
E	The reported concentration is an estimate. The value exceeds the upper calibration range (upper point of the calibration curve).
D	Dilution Data. Result was obtained from the analysis of a dilution.
B	Analyte found in the sample and associated method blank.
C	Co-eluting congener
Cxx	Co-elutes with the indicated congener, data is reported under the lowest IUPAC congener. 'Xx' denotes the IUPAC number with the lowest numerical designated congener.
NR	Analyte is not reportable because of problems in sample preparation or analysis.
V	Labeled standard recovery is not within method control limits.
X	Results from re-injection/repeat/second-column analysis.
EMPC	Estimated maximum possible concentration. Indicates that a peak is identified but did not meet the method specified ion-abundance ratio.

APPENDIX C: LAB IDENTIFIERS

AR	Indicates use of the archived portion of the sample extract.
CU	Indicates a sample that required additional clean-up prior to MS injection/processing.
D	Indicates a dilution of the sample extract. The number that follows the "D" indicates the dilution factor.
DE	Indicates a dilution performed with the addition of ES (extraction standard) solution.
DUP	Designation for a duplicate sample.
MS	Designation for a matrix spike.
MSD	Designation for a matrix spike duplicate.
RJ	Indicates a reinjection of the sample extract.
S	Indicates a sample split. The number that follows the "S" indicates the split factor.




SGS CERTIFICATIONS

Alaska	17-012
Arkansas	88-0682
California (ELAP)	ELAP Cert #2914
CLIA	34D1013708
Connecticut	PH-0258
USDA Soil Permit	P330-20-00103
American Association for Laboratory Accreditation (A2LA)	2726.01 (ISO 17025:2017, 2009 TNI, DoD ELAP QSM 5.3)
Florida DOH	E87634
Louisiana DEQ	4115
Louisiana DOH	LA031
Maine	2020019
Massachusetts	M-NC919
Michigan	9950
Minnesota (Primary NELAP For Method 23)	037-999-459
Montana	0106
New Hampshire (Primary NELAP)	2085
New Hampshire (Secondary NELAP)	2083
New Jersey	NC100
New York	11685
North Carolina DEQ	481
North Dakota	R-197
Oregon	NC200002
Pennsylvania	68-03675
South Carolina	99029002
Texas	T104704260
US Coast Guard	16714/159.317/SGS
Vermont	VT-87634
Virginia	460214
Washington	C913

Rev. 21-Oct-2020


B4966 - TEQ
Project ID: Perdido Bay

Sample Summary Part 1 (dry weight)			Method 8290A
Analyte	Method Blank B4966_18007	10821-1	
	pg/g	pg/g	
2,3,7,8-TCDD	(0.182)	[0.451]	
1,2,3,7,8-PeCDD	(0.146)	[1.64]	
1,2,3,4,7,8-HxCDD	(0.121)	2.87	
1,2,3,6,7,8-HxCDD	(0.117)	9.58	
1,2,3,7,8,9-HxCDD	(0.118)	8.55	
1,2,3,4,6,7,8-HpCDD	(0.0888)	213	
OCDD	(0.227)	4570	
2,3,7,8-TCDF	(0.0898)	1.23	
1,2,3,7,8-PeCDF	(0.0887)	[0.404]	
2,3,4,7,8-PeCDF	(0.0857)	[0.955]	
1,2,3,4,7,8-HxCDF	(0.07)	[1.28]	
1,2,3,6,7,8-HxCDF	(0.0746)	1.47	
2,3,4,6,7,8-HxCDF	(0.0727)	[2.2]	
1,2,3,7,8,9-HxCDF	(0.0796)	(0.322)	
1,2,3,4,6,7,8-HpCDF	(0.067)	31.2	
1,2,3,4,7,8,9-HpCDF	(0.103)	1.71	
OCDF	(0.199)	78.9	
ITEF TEQ (ND=0; EMPC=0)	0	9.47	
ITEF TEQ (ND=0; EMPC=EMPC)	0	11.6	
ITEF TEQ (ND=DL/2; EMPC=0)	0.19	9.49	
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.19	11.6	
ITEF TEQ (ND=DL; EMPC=EMPC)	0.379	11.6	
Checkcode	457-163-LMT	959-347-QTL	
Lab ID	MB1_18007_DF_SDS	B4966_18007_DF_001	

() = DL

[] = EMPC


B4966 - TEQ
Project ID: Perdido Bay

Sample Summary Part 1 (dry weight)			Method 8290A
Analyte	Method Blank B4966_18007	10821-1	
	pg/g	pg/g	
2,3,7,8-TCDD	(0.182)	[0.451]	
1,2,3,7,8-PeCDD	(0.146)	[1.64]	
1,2,3,4,7,8-HxCDD	(0.121)	2.87	
1,2,3,6,7,8-HxCDD	(0.117)	9.58	
1,2,3,7,8,9-HxCDD	(0.118)	8.55	
1,2,3,4,6,7,8-HpCDD	(0.0888)	213	
OCDD	(0.227)	4570	
2,3,7,8-TCDF	(0.0898)	1.23	
1,2,3,7,8-PeCDF	(0.0887)	[0.404]	
2,3,4,7,8-PeCDF	(0.0857)	[0.955]	
1,2,3,4,7,8-HxCDF	(0.07)	[1.28]	
1,2,3,6,7,8-HxCDF	(0.0746)	1.47	
2,3,4,6,7,8-HxCDF	(0.0727)	[2.2]	
1,2,3,7,8,9-HxCDF	(0.0796)	(0.322)	
1,2,3,4,6,7,8-HpCDF	(0.067)	31.2	
1,2,3,4,7,8,9-HpCDF	(0.103)	1.71	
OCDF	(0.199)	78.9	
WHO-2005 TEQ (ND=0; EMPC=0)	0	6.22	
WHO-2005 TEQ (ND=0; EMPC=EMPC)	0	8.96	
WHO-2005 TEQ (ND=DL/2; EMPC=0)	0.217	6.24	
WHO-2005 TEQ (ND=DL/2; EMPC=EMPC)	0.217	8.98	
WHO-2005 TEQ (ND=DL; EMPC=EMPC)	0.433	8.99	
Checkcode	457-163-LMT	959-347-QTL	
Lab ID	MB1_18007_DF_SDS	B4966_18007_DF_001	

() = DL

[] = EMPC

B4966 - Totals
Project ID: Perdido Bay


Sample Summary Part 2 (dry weight)			Method 8290A
Analyte	Method Blank B4966_18007	10821-1	
	pg/g	pg/g	
Totals			
TCDDs	0	21.1	
PeCDDs	0	35.7	
HxCDDs	0	208	
HpCDDs	0	582	
OCDD	0	4570	
TCDFs	0	5.08	
PeCDFs	0	10.4	
HxCDFs	0	32.9	
HpCDFs	0	79.9	
OCDF	0	78.9	
Total PCDD/Fs (ND=0; EMPC=0)	0	5620	
Total PCDD/Fs (ND=0; EMPC=EMPC)	0	5650	
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	1.93	5660	
Total 2378s (ND=0; EMPC=0)	0	4920	
Total 2378s (ND=0.5; EMPC=0)	0.965	4920	
Total 2378s (ND=1; EMPC=0)	1.93	4920	
Total 2378s (ND=0; EMPC=1)	0	4920	
Total 2378s (ND=0.5; EMPC=1)	0.965	4920	
Total 2378s (ND=1; EMPC=1)	1.93	4920	
Checkcode	457-163-LMT	959-347-QTL	
Lab ID	MB1_18007_DF_SDS	B4966_18007_DF_001	

Total 2378s = Sum of 17 2378-substituted PCDD/PCDF congeners (SARA 313)

() = DL

[] = EMPC

B4966 - Others
Project ID: Perdido Bay

Sample Summary				Method 8290A
Part 3 (dry weight)		Method Blank B4966_18007		10821-1
Analyte		pg/g		pg/g
Other PCDD/Fs (ND=0, EMPC=0)				
Other TCDD		0		21.1
Other PeCDD		0		35.7
Other HxCDD		0		187
Other HpCDD		0		370
Other TCDF		0		3.84
Other PeCDF		0		10.4
Other HxCDF		0		31.5
Other HpCDF		0		47
Other PCDD/Fs (ND=0, EMPC=EMPC)				
Other TCDD		0		29.2
Other PeCDD		0		37.8
Other HxCDD		0		187
Other HpCDD		0		370
Other TCDF		0		14.4
Other PeCDF		0		14.7
Other HxCDF		0		31.5
Other HpCDF		0		48
Checkcode		457-163-LMT		959-347-QTL
Lab ID		MB1_18007_DF_SDS		B4966_18007_DF_001

() = DL

[] = EMPC

B4966 - DLs
Project ID: Perdido Bay

Sample Summary
Part 5 (DLs) (dry weight)

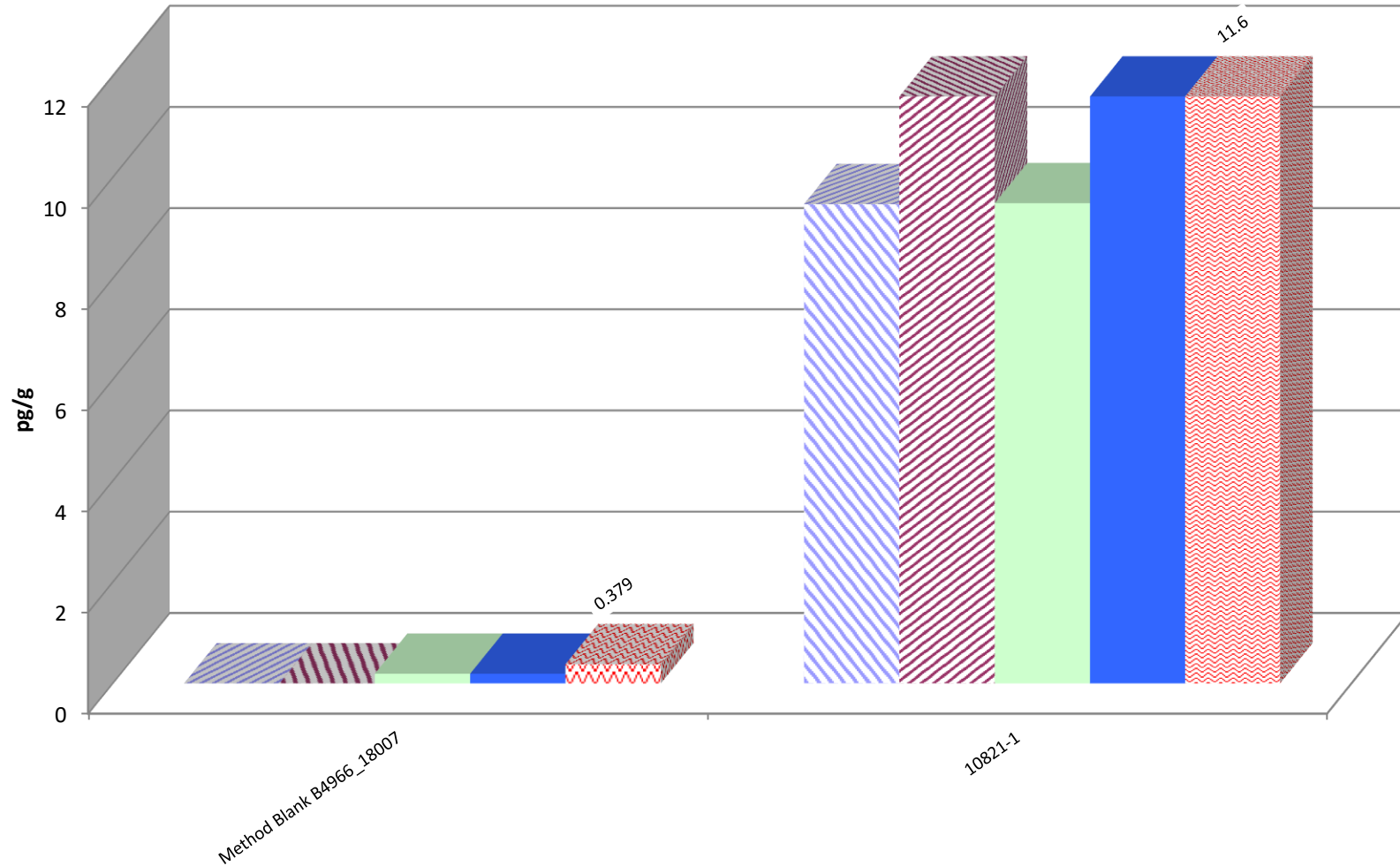


Method 8290A

Analyte	Method Blank B4966_18007	10821-1
	pg/g	pg/g
2,3,7,8-TCDD	0.182	0.173
1,2,3,7,8-PeCDD	0.146	0.303
1,2,3,4,7,8-HxCDD	0.121	0.44
1,2,3,6,7,8-HxCDD	0.117	0.44
1,2,3,7,8,9-HxCDD	0.118	0.467
1,2,3,4,6,7,8-HpCDD	0.0888	0.417
OCDD	0.227	0.264
2,3,7,8-TCDF	0.0898	0.128
1,2,3,7,8-PeCDF	0.0887	0.153
2,3,4,7,8-PeCDF	0.0857	0.154
1,2,3,4,7,8-HxCDF	0.07	0.293
1,2,3,6,7,8-HxCDF	0.0746	0.286
2,3,4,6,7,8-HxCDF	0.0727	0.292
1,2,3,7,8,9-HxCDF	0.0796	0.322
1,2,3,4,6,7,8-HpCDF	0.067	0.23
1,2,3,4,7,8,9-HpCDF	0.103	0.27
OCDF	0.199	0.39
Total TCDD	0.182	0.173
Total PeCDD	0.146	0.303
Total HxCDD	0.118	0.449
Total HpCDD	0.0888	0.417
Total TCDF	0.0898	0.128
Total PeCDF	0.0873	0.153
Total HxCDF	0.0739	0.297
Total HpCDF	0.0818	0.249
Checkcode	457-163-LMT	959-347-QTL
Lab ID	MB1_18007_DF_SDS	B4966_18007_DF_001

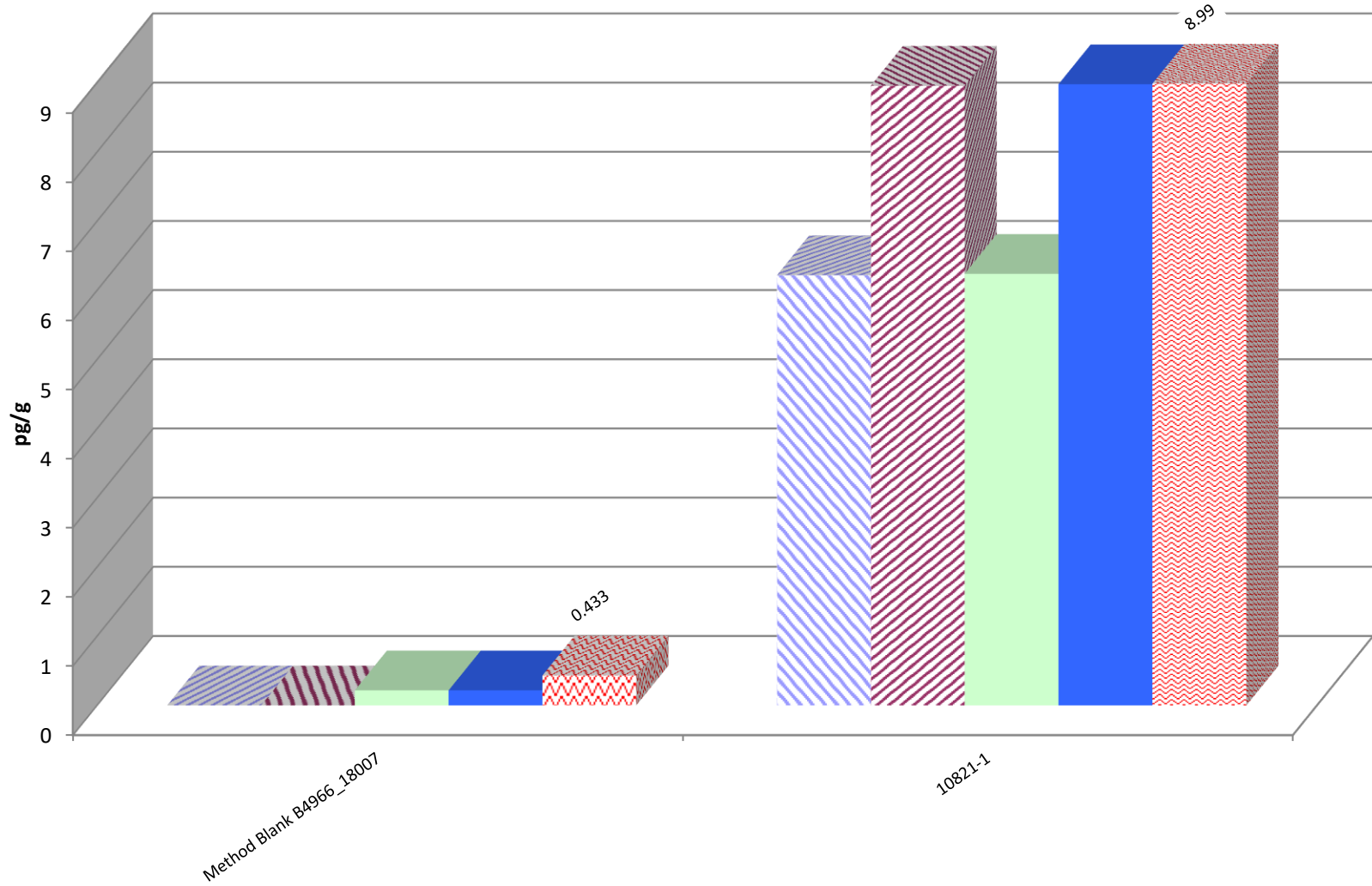
ITEF-TEQ Project ID: Perdido Bay B4966

- ND=0; EMPC=0
- ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ND=DL; EMPC=EMPC



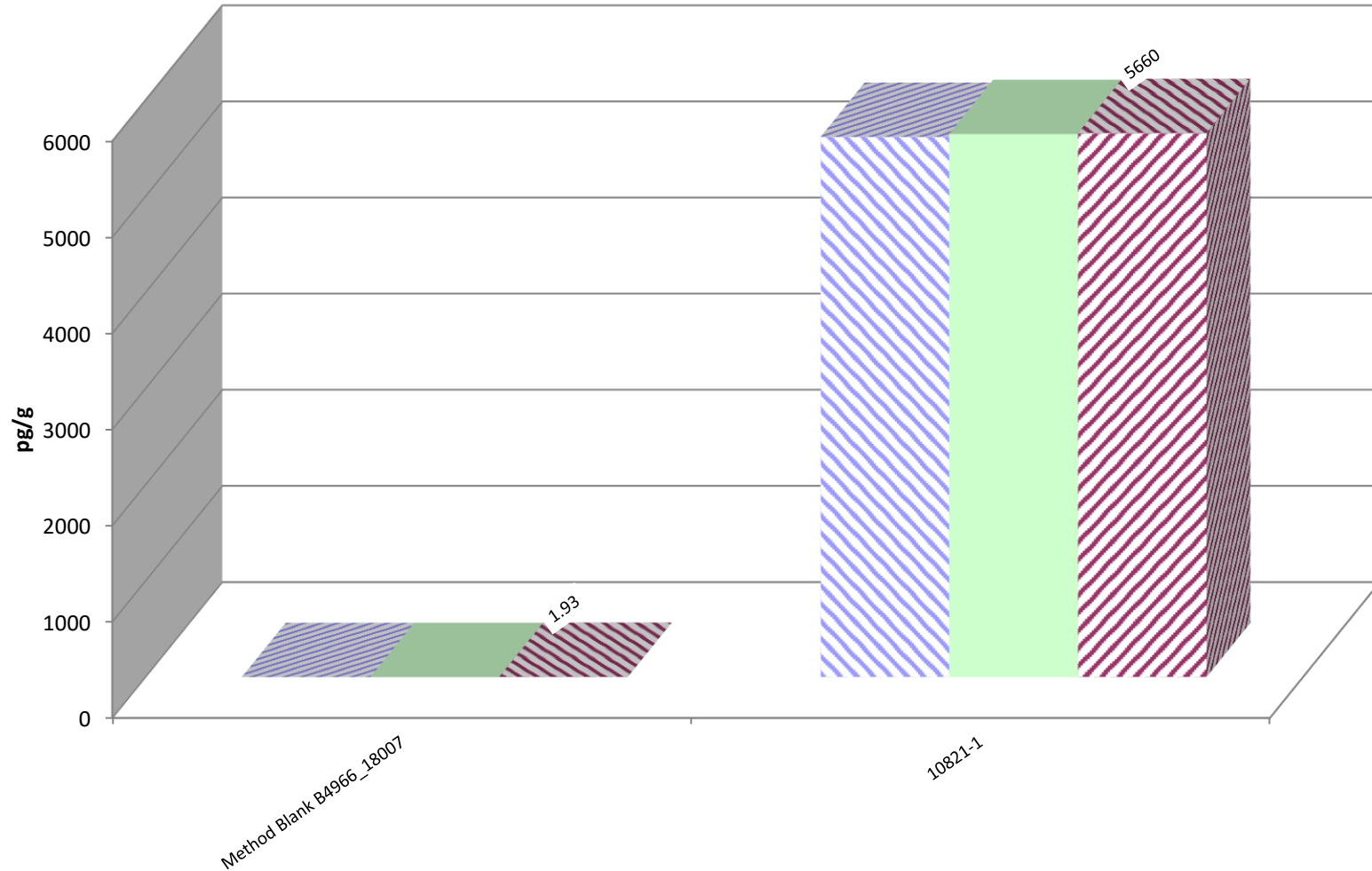
WHO-2005-TEQ
Project ID: Perdido Bay
B4966

- ND=0; EMPC=0
- ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ND=DL; EMPC=EMPC



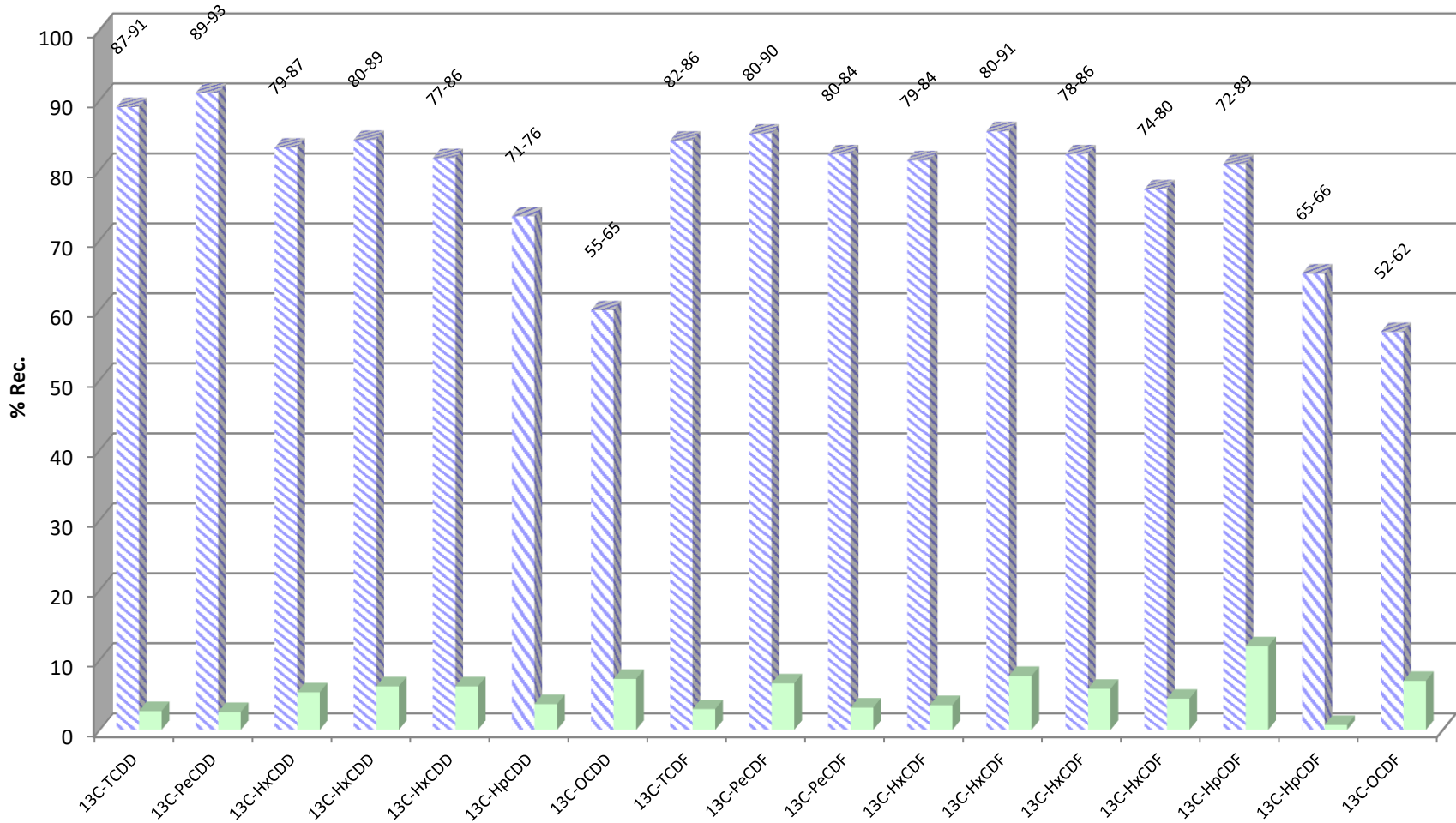
Totals Project ID: Perdido Bay B4966

- Total PCDD/Fs (ND=0; EMPC=0)
- Total PCDD/Fs (ND=0; EMPC=EMPC)
- Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)



Mean Recoveries of Extraction Standards (N=2)
Project ID: Perdido Bay
B4966

Mean Std. Dev.

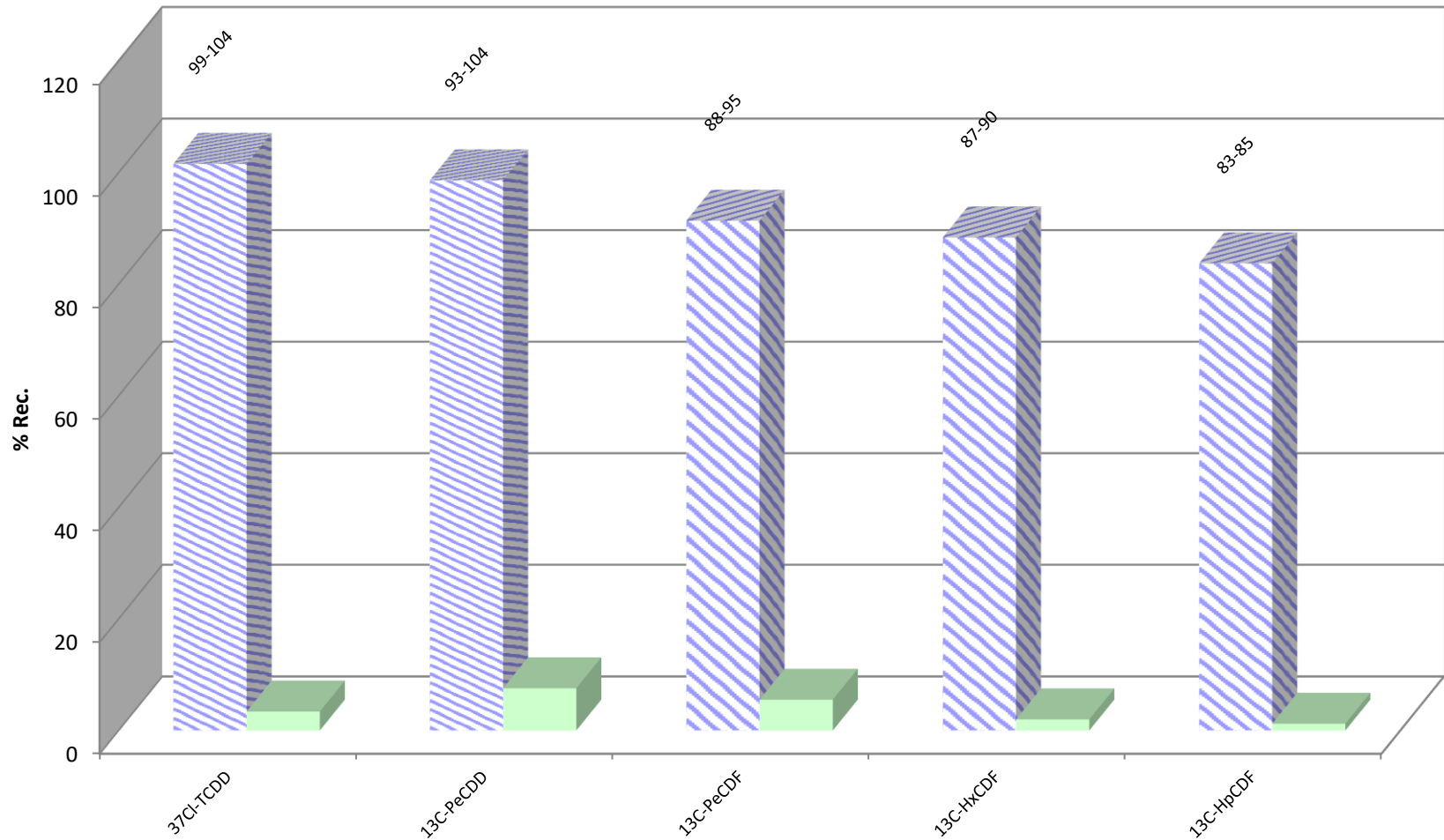


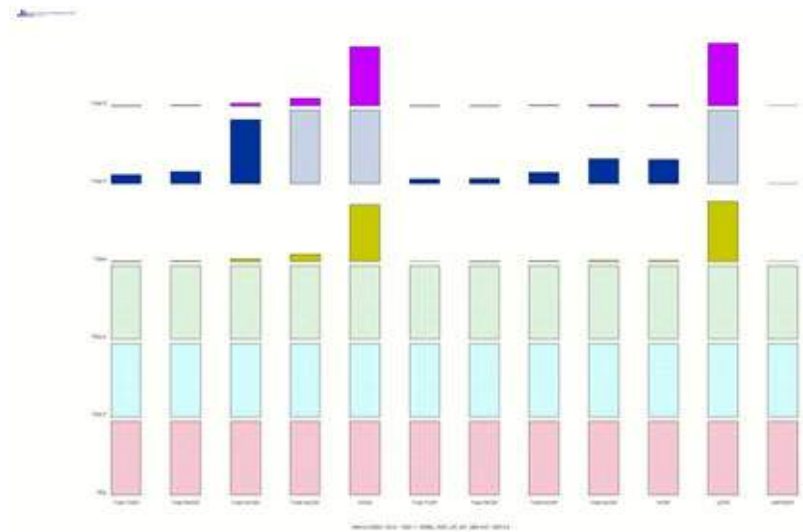
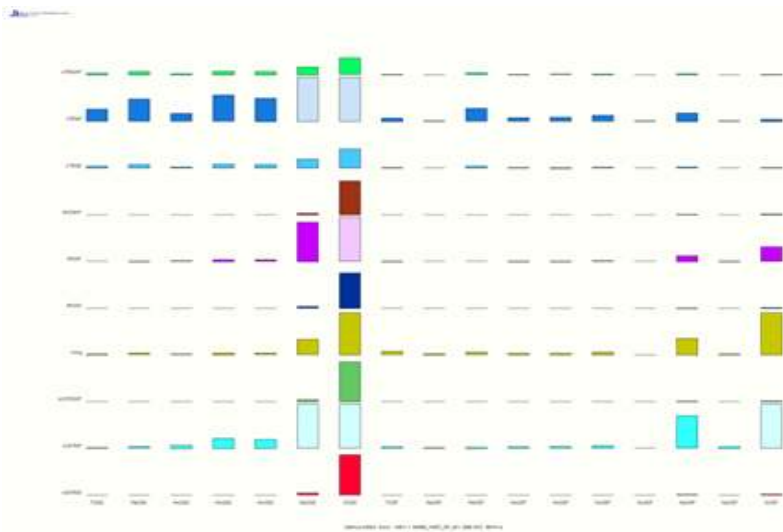
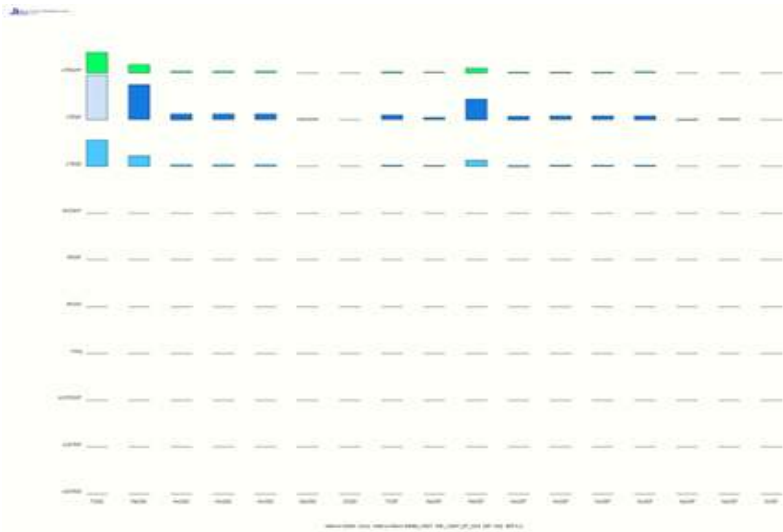
Mean Recoveries of Clean-Up Standards (N=2)

Project ID: Perdido Bay

B4966

Mean Std. Dev.





Sample ID: 10821-1


Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Project ID:	B4966	Date Received:	21-Jan-2021
Project ID:	Perdido Bay	Weight/Volume:	8.31 g	Lab Sample ID:	B4966_18007_DF_001	Date Extracted:	26-Jan-2021
Date Collected:	08-Jan-2021	% Solid:	33.2 %	QC Batch No:	18007	Date Analyzed:	01-Feb-2021
		Split:	-	Dilution:	-	Time Analyzed:	14:17:17

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	EMPC		0.451	J	ES 2378-TCDD	87.1	
12378-PeCDD	EMPC		1.64	J	ES 12378-PeCDD	89.2	
123478-HxCDD	2.87			J	ES 123478-HxCDD	79.4	
123678-HxCDD	9.58				ES 123678-HxCDD	79.9	
123789-HxCDD	8.55				ES 123789-HxCDD	77.3	
1234678-HpCDD	213				ES 1234678-HpCDD	70.8	
OCDD	4,570				ES OCDD	65.1	
2378-TCDF	1.23				ES 2378-TCDF	82.1	
12378-PeCDF	EMPC		0.404	J	ES 12378-PeCDF	80.5	
23478-PeCDF	EMPC		0.955	J	ES 23478-PeCDF	80	
123478-HxCDF	EMPC		1.28	J	ES 123478-HxCDF	78.9	
123678-HxCDF	1.47			J	ES 123678-HxCDF	80.1	
234678-HxCDF	EMPC		2.2	J	ES 234678-HxCDF	78.1	
123789-HxCDF	ND	0.322			ES 123789-HxCDF	74.1	
1234678-HpCDF	31.2				ES 1234678-HpCDF	72.4	
1234789-HpCDF	1.71			J	ES 1234789-HpCDF	65.7	
OCDF	78.9				ES OCDF	61.8	

Totals					Standard	CS Recoveries	
Total TCDD	21.1		29.7		CS 37Cl-2378-TCDD	99.2	
Total PeCDD	35.7		39.4		CS 12347-PeCDD	93.3	
Total HxCDD	208		208		CS 12346-PeCDF	87.5	
Total HpCDD	582		582		CS 123469-HxCDF	87	
Total TCDF	5.08		15.6		CS 1234689-HpCDF	84.6	
Total PeCDF	10.4		16				
Total HxCDF	32.9		36.4				
Total HpCDF	79.9		80.9				
Total PCDD/Fs	5,620		5,650				

ITEF TEQs							
TEQ: ND=0	9.47		11.6				
TEQ: ND=DL/2	9.49	0.343	11.6				
TEQ: ND=DL	9.51	0.686	11.6				



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Sample ID: 10821-1

Method 8290A

Client Data			Sample Data			Laboratory Data						
Name:	Friends of Perdido Bay		Matrix:	Solid		Lab Project ID:	B4966		Date Received:	21-Jan-2021		
Project ID:	Perdido Bay		Weight/Volume:	8.31 g		Lab Sample ID:	B4966_18007_DF_001		Date Extracted:	26-Jan-2021		
Date Collected:	08-Jan-2021		% Solid:	33.2 %		QC Batch No.:	18007		Date Analyzed:	01-Feb-2021		
			Split:	-		Dilution:	-		Time Analyzed:	14:17:17		

Tetra-Dioxins	Conc. (pg/g)	Qualifiers	Penta-Dioxins	Conc. (pg/g)	Qualifiers	Hexa-Dioxins	Conc (pg/g)	Qualifiers	Hepta-Dioxins	Conc (pg/g)	Qualifiers
1368D	[3.93]		12479/12468D	8.05		124679/124689D	122		1234679D	370	
1379D	1.4		12469D	12.3		123468D	4.94		1234678D	213	
1369D	[1.22]		12368D	1.99	J	123679/123689D	52.9				
1469D	14		12478D	2.19	J	123469D	4.7				
1247D...[4]	[1.54]		12379D	1.58	J	123478D	2.87	J			
1378D	(0.173)		12369D...[3]	8.91		123678D	9.58				
1268D	0.435	J	12346/12347D	0.716	J	123467D	2.97	J			
1478D	(0.173)		12378D	[1.64]	J	123789D	8.55		Conc.	582	
1279D	[0.62]		12367D	[0.633]	J				EMPC	582	
1234/1269D	3.41		12389D	[1.41]	J						
1236D	(0.173)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	1.88									(pg/g)	
1239D	(0.173)								OCDD	4570	
2378D	[0.451]	J									
1278D	(0.173)										
1267D	[0.277]	J									
1289D	[0.516]	J									
Conc.	21.1		Conc.	35.7		Conc.	208				
EMPC	29.7		EMPC	39.4		EMPC	208				



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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	9.47	11.6
TEQ: ND=DL/2	9.49	11.6
TEQ: ND=DL	9.51	11.6

Total PCDD/Fs	Conc.	EMPC
	5,620	5,650

Checkcode: 959-347-QTL

Report Created: 02-Feb-2021 09:24 Analyst: pw

Sample ID: 10821-1

Method 8290A

Client Data			Sample Data			Laboratory Data			Date Received: 21-Jan-2021		
Name: Friends of Perdido Bay			Matrix:			Lab Project ID: B4966			Date Received: 21-Jan-2021		
Project ID: Perdido Bay			Weight/Volume: 8.31 g			Lab Sample ID: B4966_18007_DF_001			Date Extracted: 26-Jan-2021		
Date Collected: 08-Jan-2021			% Solid: 33.2 %			QC Batch No.: 18007			Date Analyzed: 01-Feb-2021		
			Split: -			Dilution: -			Time Analyzed: 14:17:17		
Tetra-Furans	Conc. (pg/g)	Qualifiers	Penta-Furans	Conc. (pg/g)	Qualifiers	Hexa-Furans	Conc (pg/g)	Qualifiers	Hepta-Furans	Conc (pg/g)	Qualifiers
1368F	[0.54]	J	13468/12468F	7.92		123468F	4.11		1234678F	31.2	
1468F	[0.451]	J	13678F...[3]	1.03	J	124678/134678F	14.4		1234679F	[1.01]	J
2468F	[4.25]		12368F...[3]	[3.17]		134679F	(0.297)		1234689F	47	
1346/1246F	[0.497]	J	14678F	[0.341]	J	124679F	0.601	J	1234789F	1.71	J
1347F...[3]	0.658		13479F	(0.153)		124689F	11.2				
1348F	[0.134]	J	13469/12479F	(0.153)		123467F	0.518	J			
1248F...[3]	0.953		12346F	(0.153)		123478F	[1.28]	J			
1268F	0.447	J	23468/12469F	1.45	J	123678F	1.47	J			
1467F	0.768		12347F	(0.153)		123479F	(0.297)				
1478F	[0.434]	J	12348F	(0.153)		123469F	(0.297)				
1369/1237F	(0.128)		12378F	[0.404]	J	123679F	(0.297)				
2467F	[0.536]	J	12678/12367F	[0.521]	J	234678F	[2.2]	J	Conc.	79.9	
2368F	[0.801]		12379F	(0.153)		234678/123689F	0		EMPC	80.9	
1238F...[5]	[0.67]		12679F	(0.153)		123689F	(0.297)				
1278F	1.02		23467/12369F	[0.247]	J	123789F	(0.322)		Octa-Furan	Conc	Qualifiers
1349F	(0.128)		23478F	[0.955]	J	123789/123489F	0			(pg/g)	
1267F	[0.184]	J	23478/12489F	0		123489F	0.558	J	OCDF	78.9	
2346/1249F	(0.128)		12489F	(0.153)							
2347/1279F	[0.0725]	J	12349F	(0.153)							
2348F	[0.189]	J	12389F	(0.153)							
2378F	1.23										
2367/3467F	[1.11]										
1269F	(0.128)										
1239F	(0.128)										
1289F	[0.637]										
Conc.	5.08		Conc.	10.4		Conc.	32.9				
EMPC	15.6		EMPC	16		EMPC	36.4				


Checkcode: 959-347-QTL

Report Created: 02-Feb-2021 09:24 Analyst: pw

Sample ID: 10821-1 **TEQ Summary** **Method 8290A**

Client Project Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Sample ID:	B4966_18007_DF_001
Client Project ID:	Perdido Bay	Weight/Volume:	8.31 g	QC Batch No.:	18007
Date Collected:	08-Jan-2021	Split:	-	Date Extracted:	26-Jan-2021
Date Received:	21-Jan-2021	Dilution:	-	Date Analyzed:	01-Feb-2021 14:17
Lab Project No:	B4966	Units	pg/g		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	[0.451]	J	0.173	[0.451]	[0.451]	[0.451]
12378-PeCDD	[1.64]	J	0.303	[0.82]	[1.64]	[1.64]
123478-HxCDD	2.87	J	0.44	0.287	0.287	0.287
123678-HxCDD	9.58		0.44	0.958	0.958	0.958
123789-HxCDD	8.55		0.467	0.855	0.855	0.855
1234678-HpCDD	213		0.417	2.13	2.13	2.13
OCDD	4570		0.264	4.57	0.457	1.37
2378-TCDF	1.23		0.128	0.123	0.123	0.123
12378-PeCDF	[0.404]	J	0.153	[0.0202]	[0.0202]	[0.0121]
23478-PeCDF	[0.955]	J	0.154	[0.477]	[0.477]	[0.286]
123478-HxCDF	[1.28]	J	0.293	[0.128]	[0.128]	[0.128]
123678-HxCDF	1.47	J	0.286	0.147	0.147	0.147
234678-HxCDF	[2.2]	J	0.292	[0.22]	[0.22]	[0.22]
123789-HxCDF	(0.322)		0.322	(0.0322)	(0.0322)	(0.0322)
1234678-HpCDF	31.2		0.23	0.312	0.312	0.312
1234789-HpCDF	1.71	J	0.27	0.0171	0.0171	0.0171
OCDF	78.9		0.39	0.0789	0.00789	0.0237

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	EMPC = 0, ND = 0	9.47	5.29	6.22
	EMPC = 0, ND = DL / 2	9.49	5.31	6.24
	EMPC = 0, ND = DL	9.51	5.32	6.25
	EMPC = 0, < J-level = 0	9.02	4.84	5.77
	EMPC = EMPC, ND = 0	11.6	8.23	8.96
	EMPC = EMPC, ND = DL / 2	11.6	8.25	8.98
	EMPC = EMPC, ND = DL	11.6	8.26	8.99
	EMPC = EMPC, < J-level = 0	9.02	4.84	5.77

Checkcode: 959-347-QTL

SGS North America - DF v0.7

Sample ID: Method Blank B4966_18007

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Project ID:	B4966	Date Received:	n/a
Project ID:	Perdido Bay	Weight/Volume:	10.00 g	Lab Sample ID:	MB1_18007_DF_SDS	Date Extracted:	26-Jan-2021
Date Collected:	n/a	% Solid:	n/a	QC Batch No.:	18007	Date Analyzed:	01-Feb-2021
		Split:	-	Dilution:	-	Time Analyzed:	13:29:42

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.182			ES 2378-TCDD	90.9	
12378-PeCDD	ND	0.146			ES 12378-PeCDD	92.8	
123478-HxCDD	ND	0.121			ES 123478-HxCDD	87	
123678-HxCDD	ND	0.117			ES 123678-HxCDD	88.7	
123789-HxCDD	ND	0.118			ES 123789-HxCDD	86.1	
1234678-HpCDD	ND	0.0888			ES 1234678-HpCDD	76	
OCDD	ND	0.227			ES OCDD	54.8	
2378-TCDF	ND	0.0898			ES 2378-TCDF	86.3	
12378-PeCDF	ND	0.0887			ES 12378-PeCDF	89.9	
23478-PeCDF	ND	0.0857			ES 23478-PeCDF	84.5	
123478-HxCDF	ND	0.07			ES 123478-HxCDF	83.9	
123678-HxCDF	ND	0.0746			ES 123678-HxCDF	91	
234678-HxCDF	ND	0.0727			ES 234678-HxCDF	86.4	
123789-HxCDF	ND	0.0796			ES 123789-HxCDF	80.4	
1234678-HpCDF	ND	0.067			ES 1234678-HpCDF	89.3	
1234789-HpCDF	ND	0.103			ES 1234789-HpCDF	64.7	
OCDF	ND	0.199			ES OCDF	51.9	

Totals					Standard	CS Recoveries	
Total TCDD	ND	0.182	ND		CS 37Cl-2378-TCDD	104	
Total PeCDD	ND	0.146	ND		CS 12347-PeCDD	104	
Total HxCDD	ND	0.118	ND		CS 12346-PeCDF	95.3	
Total HpCDD	ND	0.0888	ND		CS 123469-HxCDF	89.8	
Total TCDF	ND	0.0898	ND		CS 1234689-HpCDF	82.9	
Total PeCDF	ND	0.0873	ND				
Total HxCDF	ND	0.0739	ND				
Total HpCDF	ND	0.0818	ND				
Total PCDD/Fs	ND		ND				

ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.19	0.19	0.19				
TEQ: ND=DL	0.379	0.379	0.379				



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Sample ID: Method Blank B4966_18007

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Project ID:	B4966	Date Received:	n/a
Project ID:	Perdido Bay	Weight/Volume:	10.00 g	Lab Sample ID:	MB1_18007_DF_SDS	Date Extracted:	26-Jan-2021
Date Collected:	n/a	% Solid:	n/a	QC Batch No.:	18007	Date Analyzed:	01-Feb-2021
		Split:	-	Dilution:	-	Time Analyzed:	13:29:42

Tetra-Dioxins	Conc. (pg/g)	Qualifiers	Penta-Dioxins	Conc. (pg/g)	Qualifiers	Hexa-Dioxins	Conc. (pg/g)	Qualifiers	Hepta-Dioxins	Conc. (pg/g)	Qualifiers
1368D	(0.182)		12479/12468D	(0.146)		124679/124689D	(0.118)		1234679D	(0.0888)	
1379D	(0.182)		12469D	(0.146)		123468D	(0.118)		1234678D	(0.0888)	
1369D	(0.182)		12368D	(0.146)		123679/123689D	(0.118)				
1469D	(0.182)		12478D	(0.146)		123469D	(0.118)				
1247D...[4]	(0.182)		12379D	(0.146)		123478D	(0.121)				
1378D	(0.182)		12369D...[3]	(0.146)		123678D	(0.117)				
1268D	(0.182)		12346/12347D	(0.146)		123467D	(0.118)				
1478D	(0.182)		12378D	(0.146)		123789D	(0.118)		Conc.	0	
1279D	(0.182)		12367D	(0.146)					EMPC	0	
1234/1269D	(0.182)		12389D	(0.146)							
1236D	(0.182)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(0.182)									(pg/g)	
1239D	(0.182)								OCDD	(0.227)	
2378D	(0.182)										
1278D	(0.182)										
1267D	(0.182)										
1289D	(0.182)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	0		EMPC	0		EMPC	0				



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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	0	0
TEQ: ND=DL/2	0.19	0.19
TEQ: ND=DL	0.379	0.379
Total PCDD/Fs	Conc.	EMPC
	0	0

Checkcode: 457-163-LMT

Report Created: 02-Feb-2021 09:24 Analyst: pw

Sample ID: Method Blank B4966_18007

Method 8290A

Client Data			Sample Data			Laboratory Data			Date Received: n/a		
Name: Friends of Perdido Bay			Matrix:			Lab Project ID: B4966			Date Received: n/a		
Project ID: Perdido Bay			Weight/Volume: 10.00 g			Lab Sample ID: MB1_18007_DF_SDS			Date Extracted: 26-Jan-2021		
Date Collected: n/a			% Solid: n/a			QC Batch No.: 18007			Date Analyzed: 01-Feb-2021		
			Split: -			Dilution: -			Time Analyzed: 13:29:42		
Tetra-Furans	Conc. (pg/g)	Qualifiers	Penta-Furans	Conc. (pg/g)	Qualifiers	Hexa-Furans	Conc (pg/g)	Qualifiers	Hepta-Furans	Conc (pg/g)	Qualifiers
1368F	(0.0898)		13468/12468F	(0.104)		123468F	(0.0739)		1234678F	(0.067)	
1468F	(0.0898)		13678F...[3]	(0.0873)		124678/134678F	(0.0739)		1234679F	(0.0818)	
2468F	(0.0898)		12368F...[3]	(0.0873)		134679F	(0.0739)		1234689F	(0.0818)	
1346/1246F	(0.0898)		14678F	(0.0873)		124679F	(0.0739)		1234789F	(0.103)	
1347F...[3]	(0.0898)		13479F	(0.0873)		124689F	(0.0739)				
1348F	(0.0898)		13469/12479F	(0.0873)		123467F	(0.0739)				
1248F...[3]	(0.0898)		12346F	(0.0873)		123478F	(0.07)				
1268F	(0.0898)		23468/12469F	(0.0873)		123678F	(0.0746)				
1467F	(0.0898)		12347F	(0.0873)		123479F	(0.0739)				
1478F	(0.0898)		12348F	(0.0873)		123469F	(0.0739)				
1369/1237F	(0.0898)		12378F	(0.0887)		123679F	(0.0739)				
2467F	(0.0898)		12678/12367F	(0.0873)		234678F	(0.0727)		Conc.	0	
2368F	(0.0898)		12379F	(0.0873)		234678/123689F	0		EMPC	0	
1238F...[5]	(0.0898)		12679F	(0.0873)		123689F	(0.0739)				
1278F	(0.0898)		23467/12369F	(0.0873)		123789F	(0.0796)		Octa-Furan	Conc	Qualifiers
1349F	(0.0898)		23478F	(0.0857)		123789/123489F	0			(pg/g)	
1267F	(0.0898)		23478/12489F	0		123489F	(0.0739)		OCDF	(0.199)	
2346/1249F	(0.0898)		12489F	(0.0873)							
2347/1279F	(0.0898)		12349F	(0.0873)							
2348F	(0.0898)		12389F	(0.0873)							
2378F	(0.0898)										
2367/3467F	(0.0898)										
1269F	(0.0898)										
1239F	(0.0898)										
1289F	(0.0898)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	0		EMPC	0		EMPC	0				


Checkcode: 457-163-LMT

Report Created: 02-Feb-2021 09:24 Analyst: pw

Sample ID: Method Blank B4966_18007 **TEQ Summary** **Method 8290A**

Client Project Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Sample ID:	MB1_18007_DF_SDS
Client Project ID:	Perdido Bay	Weight/Volume:	10.00 g	QC Batch No.:	18007
Date Collected:	n/a	Split:	-	Date Extracted:	26-Jan-2021
Date Received:	n/a	Dilution:	-	Date Analyzed:	01-Feb-2021 13:29
Lab Project No:	B4966	Units	pg/g		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(0.182)		0.182	(0.182)	(0.182)	(0.182)
12378-PeCDD	(0.146)		0.146	(0.0729)	(0.146)	(0.146)
123478-HxCDD	(0.121)		0.121	(0.0121)	(0.0121)	(0.0121)
123678-HxCDD	(0.117)		0.117	(0.0117)	(0.0117)	(0.0117)
123789-HxCDD	(0.118)		0.118	(0.0118)	(0.0118)	(0.0118)
1234678-HpCDD	(0.0888)		0.0888	(0.000888)	(0.000888)	(0.000888)
OCDD	(0.227)		0.227	(0.000227)	(0.0000227)	(0.0000681)
2378-TCDF	(0.0898)		0.0898	(0.00898)	(0.00898)	(0.00898)
12378-PeCDF	(0.0887)		0.0887	(0.00444)	(0.00444)	(0.00266)
23478-PeCDF	(0.0857)		0.0857	(0.0429)	(0.0429)	(0.0257)
123478-HxCDF	(0.07)		0.07	(0.007)	(0.007)	(0.007)
123678-HxCDF	(0.0746)		0.0746	(0.00746)	(0.00746)	(0.00746)
234678-HxCDF	(0.0727)		0.0727	(0.00727)	(0.00727)	(0.00727)
123789-HxCDF	(0.0796)		0.0796	(0.00796)	(0.00796)	(0.00796)
1234678-HpCDF	(0.067)		0.067	(0.00067)	(0.00067)	(0.00067)
1234789-HpCDF	(0.103)		0.103	(0.00103)	(0.00103)	(0.00103)
OCDF	(0.199)		0.199	(0.000199)	(0.0000199)	(0.0000596)

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	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	0.19	0.226	0.217
	EMPC = 0, ND = DL	0.379	0.452	0.433
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	0.19	0.226	0.217
	EMPC = EMPC, ND = DL	0.379	0.452	0.433
	EMPC = EMPC, < J-level = 0	0	0	0

Checkcode: 457-163-LMT

SGS North America - DF v0.7

METHOD 8290A

PCDD/F ONGOING PRECISION AND RECOVERY (OPR)

FORM 8A

Lab Name: SGS North America
 Initial Calibration: ICAL: MM3_DF_10272021_30NOV2020
 Instrument ID: MM3 GC Column ID: ZB-5ms
 VER Data Filename: 210201R02 Analysis Date: 01-FEB-2021 11:46:46
 Lab ID: OPR1_18007_DF

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
2,3,7,8-TCDD	10	11.3	6.7	-	15.8	Y
1,2,3,7,8-PeCDD	50	50.4	35	-	71	Y
1,2,3,4,7,8-HxCDD	50	57	35	-	82	Y
1,2,3,6,7,8-HxCDD	50	56	38	-	67	Y
1,2,3,7,8,9-HxCDD	50	50.7	32	-	81	Y
1,2,3,4,6,7,8-HpCDD	50	53.6	35	-	70	Y
OCDD	100	115	78	-	144	Y
2,3,7,8-TCDF	10	11.3	7.5	-	15.8	Y
1,2,3,7,8-PeCDF	50	53.7	40	-	67	Y
2,3,4,7,8-PeCDF	50	57.9	34	-	80	Y
1,2,3,4,7,8-HxCDF	50	55.8	36	-	67	Y
1,2,3,6,7,8-HxCDF	50	58.4	42	-	65	Y
2,3,4,6,7,8-HxCDF	50	56.8	35	-	78	Y
1,2,3,7,8,9-HxCDF	50	52.9	39	-	65	Y
1,2,3,4,6,7,8-HpCDF	50	56.6	41	-	61	Y
1,2,3,4,7,8,9-HpCDF	50	58	39	-	69	Y
OCDF	100	108	63	-	170	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 02 Feb 2021 09:24 Analyst: pw

METHOD 8290A

PCDD/F ONGOING PRECISION AND RECOVERY (OPR)

FORM 8B

Lab Name: SGS North America
 Initial Calibration: ICAL: MM3_DF_10272021_30NOV2020
 Instrument ID: MM3 GC Column ID: ZB-5ms
 VER Data Filename: 210201R02 Analysis Date: 01-FEB-2021 11:46:46
 Lab ID: OPR1_18007_DF

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
13C-2,3,7,8-TCDD	100	88.6	20	-	175	Y
13C-1,2,3,7,8-PeCDD	100	91	21	-	227	Y
13C-1,2,3,4,7,8-HxCDD	100	78.3	21	-	193	Y
13C-1,2,3,6,7,8-HxCDD	100	83.1	25	-	163	Y
13C-1,2,3,7,8,9-HxCDD	100	81.4	26	-	166	Y
13C-1,2,3,4,6,7,8-HpCDD	100	71.3	26	-	166	Y
13C-OCDD	200	107	26	-	397	Y
13C-2,3,7,8-TCDF	100	84.6	22	-	152	Y
13C-1,2,3,7,8-PeCDF	100	87.7	21	-	192	Y
13C-2,3,4,7,8-PeCDF	100	86.4	13	-	328	Y
13C-1,2,3,4,7,8-HxCDF	100	78.9	19	-	202	Y
13C-1,2,3,6,7,8-HxCDF	100	86.1	21	-	159	Y
13C-2,3,4,6,7,8-HxCDF	100	83.6	22	-	176	Y
13C-1,2,3,7,8,9-HxCDF	100	76.1	17	-	205	Y
13C-1,2,3,4,6,7,8-HpCDF	100	82.9	21	-	158	Y
13C-1,2,3,4,7,8,9-HpCDF	100	62.7	20	-	186	Y
13C-OCDF	200	105	26	-	397	Y
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD	40	40.8	12.4	-	76.4	Y

Contract-required concentration limits for OPR as specified in Table 6,
 Method 1613. 10/94

Processed: 02 Feb 2021 09:24 Analyst: pw



Sample Receipt Notification

5500 Business Drive
 Wilmington, NC 28405 USA
 Tel: 910 794-1613
 Toll Free: 866 846-8290
 Fax: 910 794-3919

Project Manager:	<i>Amy Boehm</i>
Receipt Date & Time:	<i>21-Jan-21 at 11:27</i>
AP Project name:	<i>B4966</i>
Requested TAT:	<i>10 business days</i>
Projected due date:	<i>4-Feb-21</i>
Matrix:	<i>Soil</i>
Phone#:	<i>910-794-1613</i>
Email Address:	<i>Amy.Boehm@sgs.com</i>

Company Contact:	<i>Jacqueline Lane</i>
Company:	<i>Friends of Perdido Bay</i>
Project Name & Site:	<i>Perdido Bay</i>
Project PO#:	<i>n/a</i>
QAAP/Contract #:	<i>n/a</i>
Requested Analysis:	<i>M8290A</i>
Phone#:	<i>(850) 453-5488</i>
Email Address:	<i>perdidoresident@gmail.com</i>

Client Smp ID	AP Smp ID	Sample Condition & Notes	Quantity	Size	Sampling Date	Sampling Time	Received Temp (°C)	Container #	Shipping #
10821-1	B4966_001	soil	1	4 oz Amber	08-Jan-21	10:00	1.4	1	782787914870

Preservation Type:	Sample Seals:	No
Notes/Comments:		Any un-extracted sample will be stored for 90 days from reporting date. Additional storage fees may apply for any samples stored longer than 90 days.
Samples received intact		

Received by: *Amy Boehm* Logged in by: *Amy Boehm* QC'ed by: AK 21 Jan 21

All services are rendered in accordance with the applicable SGS General Conditions of Service accessible via: http://www.sgs.com/terms_and_conditions.htm



CHAIN OF CUSTODY

B4966 1/1

PROJECT INFO

PROJECT:

P.O. #:

QUOTE #:

SITE REF: Perdido Bay

TURN AROUND TIME:

REPORT LEVEL: Level I Level II Level IV

SPECIAL DELIVERABLES:

DoD EDD/Version:

State of Origin:

SPECIAL INSTRUCTIONS / COMMENTS

PRESERVATIVE

ANALYSIS & METHOD

A0628

SEND DOCUMENTATION / RESULTS TO

COMPANY: Friends of Perdido Bay

CONTACT: Jacqueline Lane

ADDRESS: 10738 Lillian Hwy Pensacola, FL 32506

PHONE: 750-453-5488

EMAIL: Perdidoresident@gmail.com

INVOICE TO (CHECK IF SAME)

COMPANY:

CONTACT:

ADDRESS:

PHONE:

EMAIL:

SAMPLE ID / DESCRIPTION	DATE	TIME	QTY	MATRIX							MS	MS/	REMARKS			
											MSD	DUP				
10821-7	1/21/21	10:00 AM	1	Soil												
COLLECTED/RELINQUISHED BY (1):						DATE:	TIME:	RECEIVED BY:			RECEIVED BY LABORATORY:			DATE:	TIME:	
RELINQUISHED BY (2):						DATE:	TIME:	RECEIVED BY:			COOLER SEAL: <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT			CONTAINER SEALS: <input type="checkbox"/> INTACT <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> ABSENT		
RELINQUISHED BY (3):						DATE:	TIME:	RECEIVED BY:			CARRIER: FedEx			TEMP: °C 1.4 °C		
TRACKING #:													IR-4			