



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

B5151 - TEQ
Project ID: Upper Perdido Bay

Sample Summary				Method 8290A
Part 1 (dry weight)				
Analyte	Method Blank B5151_18139	STA 26	STA 29	
	pg/g	pg/g	pg/g	
2,3,7,8-TCDD	(0.387)	1.8	(0.727)	
1,2,3,7,8-PeCDD	(0.265)	2.77	1.73	
1,2,3,4,7,8-HxCDD	(0.12)	5.04	[2.37]	
1,2,3,6,7,8-HxCDD	(0.127)	14.9	6.71	
1,2,3,7,8,9-HxCDD	(0.113)	14.1	8.69	
1,2,3,4,6,7,8-HpCDD	(0.0993)	261	138	
OCDD	(0.21)	2620	1430	
2,3,7,8-TCDF	(0.143)	3.2	[0.831]	
1,2,3,7,8-PeCDF	(0.135)	[0.798]	(0.296)	
2,3,4,7,8-PeCDF	(0.142)	1.53	[0.514]	
1,2,3,4,7,8-HxCDF	(0.124)	1.97	[0.791]	
1,2,3,6,7,8-HxCDF	(0.11)	2.57	[1.1]	
2,3,4,6,7,8-HxCDF	(0.132)	[3.42]	[1.45]	
1,2,3,7,8,9-HxCDF	(0.147)	(0.41)	(0.358)	
1,2,3,4,6,7,8-HpCDF	(0.0584)	35.2	16.3	
1,2,3,4,7,8,9-HpCDF	(0.111)	3.41	[0.704]	
OCDF	(0.247)	62.4	20.8	
ITEF TEQ (ND=0; EMPC=0)	0	13.8	5.41	
ITEF TEQ (ND=0; EMPC=EMPC)	0	14.2	6.32	
ITEF TEQ (ND=DL/2; EMPC=0)	0.351	13.8	5.79	
ITEF TEQ (ND=DL/2; EMPC=EMPC)	0.351	14.2	6.71	
ITEF TEQ (ND=DL; EMPC=EMPC)	0.702	14.2	7.1	
Checkcode	426-776-QVW	861-552-ZPZ	087-363-PVD	
Lab ID	MB1_18139_DF_SDS	B5151_18139_DF_001	B5151_18139_DF_002	


() = DL
 [] = EMPC

B5151 - TEQ
Project ID: Upper Perdido Bay

Sample Summary				Method 8290A
Part 1 (dry weight)				
Analyte	Method Blank B5151_18139	STA 26	STA 29	
	pg/g	pg/g	pg/g	
2,3,7,8-TCDD	(0.387)	1.8	(0.727)	
1,2,3,7,8-PeCDD	(0.265)	2.77	1.73	
1,2,3,4,7,8-HxCDD	(0.12)	5.04	[2.37]	
1,2,3,6,7,8-HxCDD	(0.127)	14.9	6.71	
1,2,3,7,8,9-HxCDD	(0.113)	14.1	8.69	
1,2,3,4,6,7,8-HpCDD	(0.0993)	261	138	
OCDD	(0.21)	2620	1430	
2,3,7,8-TCDF	(0.143)	3.2	[0.831]	
1,2,3,7,8-PeCDF	(0.135)	[0.798]	(0.296)	
2,3,4,7,8-PeCDF	(0.142)	1.53	[0.514]	
1,2,3,4,7,8-HxCDF	(0.124)	1.97	[0.791]	
1,2,3,6,7,8-HxCDF	(0.11)	2.57	[1.1]	
2,3,4,6,7,8-HxCDF	(0.132)	[3.42]	[1.45]	
1,2,3,7,8,9-HxCDF	(0.147)	(0.41)	(0.358)	
1,2,3,4,6,7,8-HpCDF	(0.0584)	35.2	16.3	
1,2,3,4,7,8,9-HpCDF	(0.111)	3.41	[0.704]	
OCDF	(0.247)	62.4	20.8	
WHO-2005 TEQ (ND=0; EMPC=0)	0	13	5.25	
WHO-2005 TEQ (ND=0; EMPC=EMPC)	0	13.4	6.07	
WHO-2005 TEQ (ND=DL/2; EMPC=0)	0.401	13	5.64	
WHO-2005 TEQ (ND=DL/2; EMPC=EMPC)	0.401	13.4	6.45	
WHO-2005 TEQ (ND=DL; EMPC=EMPC)	0.803	13.4	6.84	
Checkcode	426-776-QVW	861-552-ZPZ	087-363-PVD	
Lab ID	MB1_18139_DF_SDS	B5151_18139_DF_001	B5151_18139_DF_002	

() = DL
 [] = EMPC


B5151 - Totals
Project ID: Upper Perdido Bay

Sample Summary				Method 8290A	
Part 2 (dry weight)					
Analyte	Method Blank B5151_18139	STA 26	STA 29	pg/g	pg/g
	pg/g	pg/g		pg/g	
Totals					
TCDDs	0	37.2		21.8	
PeCDDs	0	59.5		24.2	
HxCDDs	0	306		198	
HpCDDs	0	747		420	
OCDD	0	2620		1430	
TCDFs	0	17.2		3.4	
PeCDFs	0	17		8.36	
HxCDFs	0	45.5		13.2	
HpCDFs	0	84.3		31.4	
OCDF	0	62.4		20.8	
Total PCDD/Fs (ND=0; EMPC=0)	0	4000		2170	
Total PCDD/Fs (ND=0; EMPC=EMPC)	0	4030		2210	
Total PCDD/Fs (2378-X ND=DL; EMPC=EMPC)	2.67	4030		2210	
Total 2378s (ND=0; EMPC=0)	0	3030		1630	
Total 2378s (ND=0.5; EMPC=0)	1.34	3030		1630	
Total 2378s (ND=1; EMPC=0)	2.67	3030		1630	
Total 2378s (ND=0; EMPC=1)	0	3030		1630	
Total 2378s (ND=0.5; EMPC=1)	1.34	3030		1630	
Total 2378s (ND=1; EMPC=1)	2.67	3030		1640	
Checkcode	426-776-QVW	861-552-ZPZ		087-363-PVD	
Lab ID	MB1_18139_DF_SDS	B5151_18139_DF_001		B5151_18139_DF_002	

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

() = DL
[] = EMPC

B5151 - Others
Project ID: Upper Perdido Bay

Sample Summary				Method 8290A
Part 3 (dry weight)				
Analyte	Method Blank B5151_18139	STA 26	STA 29	
	pg/g	pg/g	pg/g	
Other PCDD/Fs (ND=0, EMPC=0)				
Other TCDD	0	35.4	21.8	
Other PeCDD	0	56.7	22.5	
Other HxCDD	0	272	183	
Other HpCDD	0	486	281	
Other TCDF	0	14.1	3.4	
Other PeCDF	0	15.5	8.36	
Other HxCDF	0	41	13.2	
Other HpCDF	0	45.7	15.1	
Other PCDD/Fs (ND=0, EMPC=EMPC)				
Other TCDD	0	39.6	22.9	
Other PeCDD	0	57.5	35.1	
Other HxCDD	0	276	188	
Other HpCDD	0	486	281	
Other TCDF	0	24.5	5.76	
Other PeCDF	0	24.2	10.9	
Other HxCDF	0	41.9	15.3	
Other HpCDF	0	45.7	16	
Checkcode	426-776-QVW	861-552-ZPZ	087-363-PVD	
Lab ID	MB1_18139_DF_SDS	B5151_18139_DF_001	B5151_18139_DF_002	

() = DL
 [] = EMPC

B5151 - DLs

Project ID: Upper Perdido Bay

Sample Summary Part 5 (DLs) (dry weight)

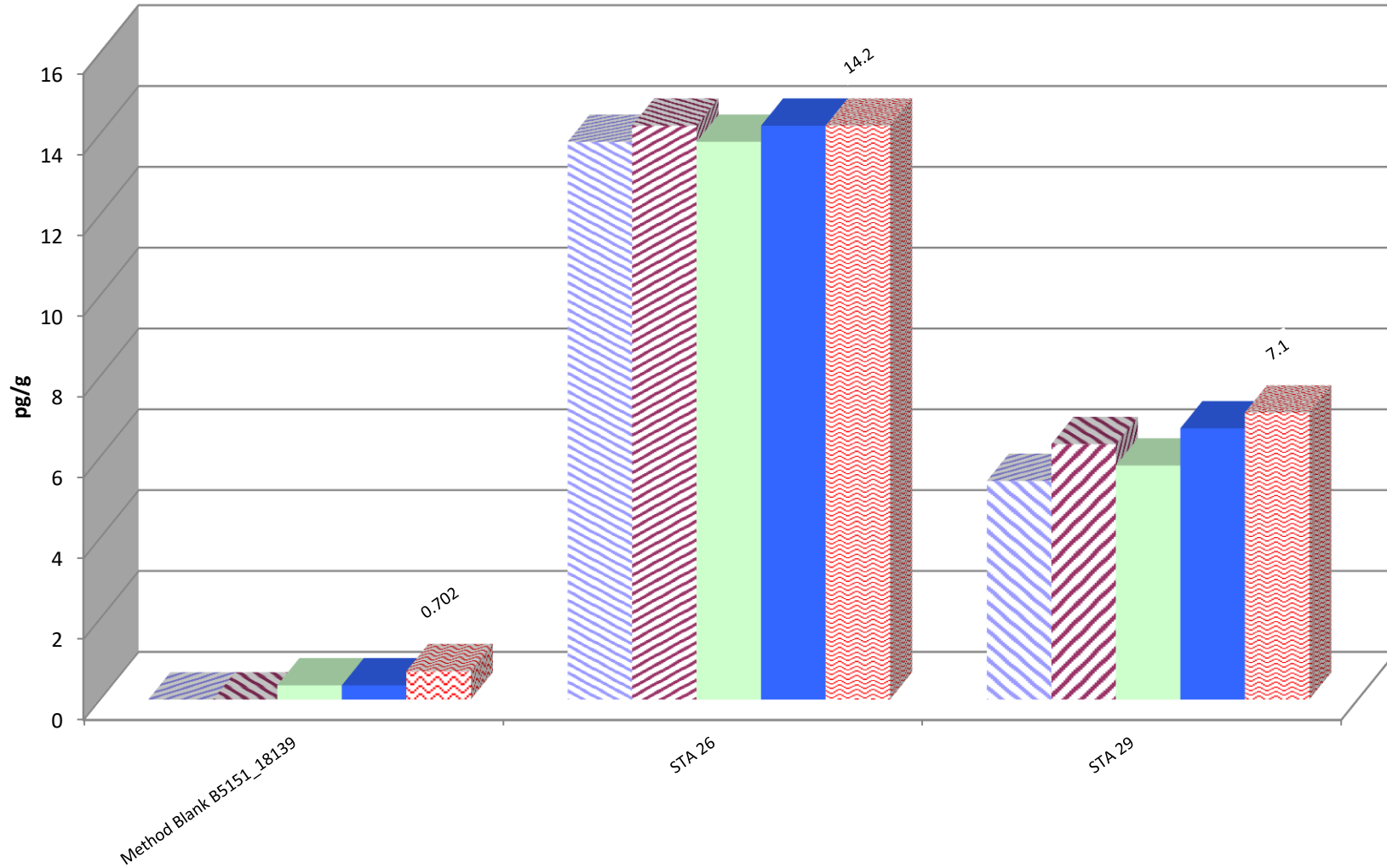


Method 8290A

Analyte	Method Blank B5151_18139	STA 26	STA 29
	pg/g	pg/g	pg/g
2,3,7,8-TCDD	0.387	0.65	0.727
1,2,3,7,8-PeCDD	0.265	0.477	0.634
1,2,3,4,7,8-HxCDD	0.12	0.336	0.602
1,2,3,6,7,8-HxCDD	0.127	0.328	0.525
1,2,3,7,8,9-HxCDD	0.113	0.316	0.549
1,2,3,4,6,7,8-HpCDD	0.0993	0.381	0.342
OCDD	0.21	0.529	0.713
2,3,7,8-TCDF	0.143	0.336	0.331
1,2,3,7,8-PeCDF	0.135	0.339	0.296
2,3,4,7,8-PeCDF	0.142	0.331	0.303
1,2,3,4,7,8-HxCDF	0.124	0.377	0.333
1,2,3,6,7,8-HxCDF	0.11	0.338	0.32
2,3,4,6,7,8-HxCDF	0.132	0.36	0.337
1,2,3,7,8,9-HxCDF	0.147	0.41	0.358
1,2,3,4,6,7,8-HpCDF	0.0584	0.123	0.244
1,2,3,4,7,8,9-HpCDF	0.111	0.172	0.315
OCDF	0.247	0.407	0.62
Total TCDD	0.387	0.65	0.727
Total PeCDD	0.265	0.477	0.634
Total HxCDD	0.119	0.326	0.556
Total HpCDD	0.0993	0.381	0.342
Total TCDF	0.143	0.336	0.331
Total PeCDF	0.138	0.335	0.299
Total HxCDF	0.126	0.368	0.336
Total HpCDF	0.0773	0.144	0.275
Checkcode	426-776-QVW	861-552-ZPZ	087-363-PVD
Lab ID	MB1_18139_DF_SDS	B5151_18139_DF_001	B5151_18139_DF_002

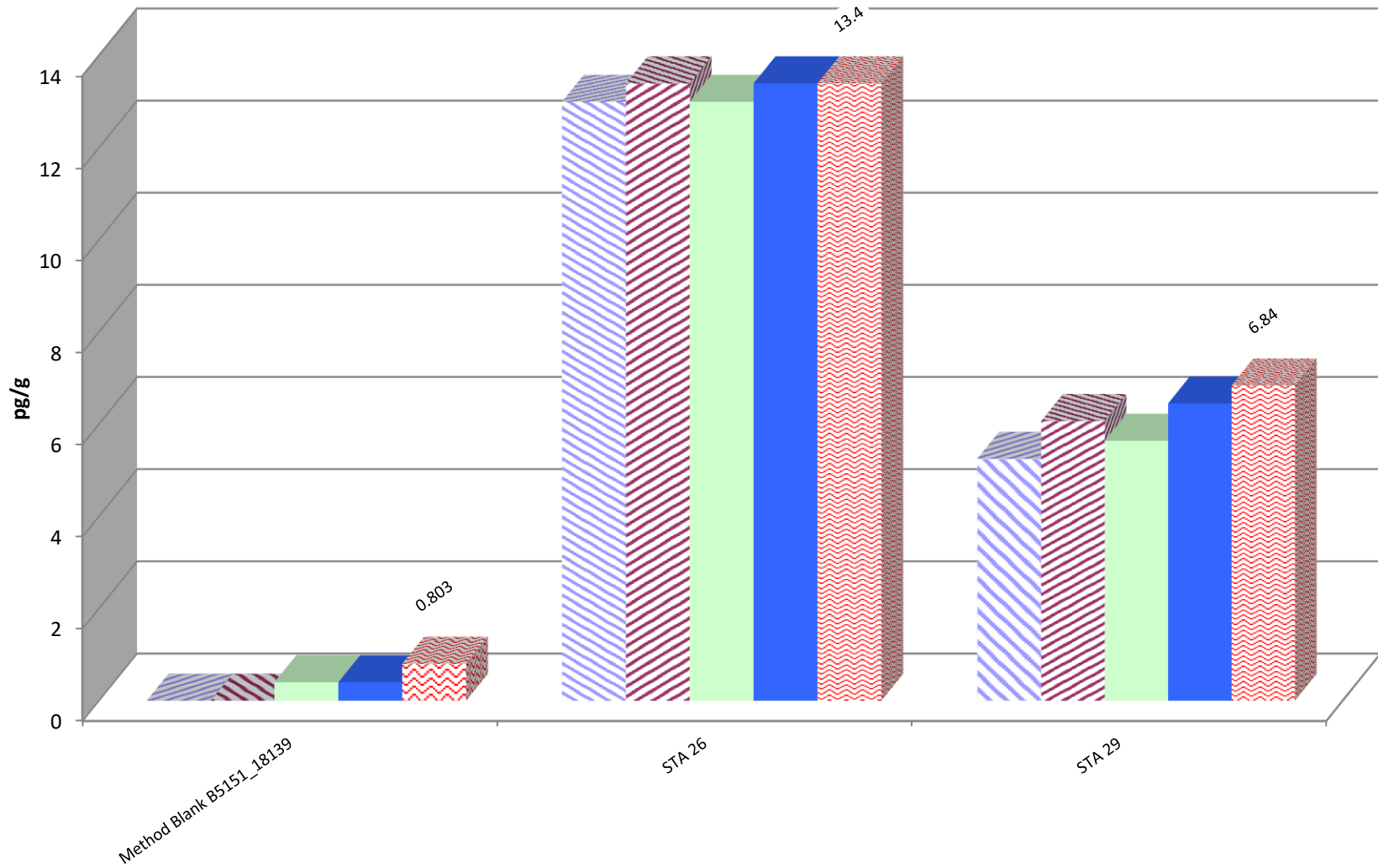
ITEF-TEQ Project ID: Upper Perdido Bay B5151

- 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: Upper Perdido Bay B5151

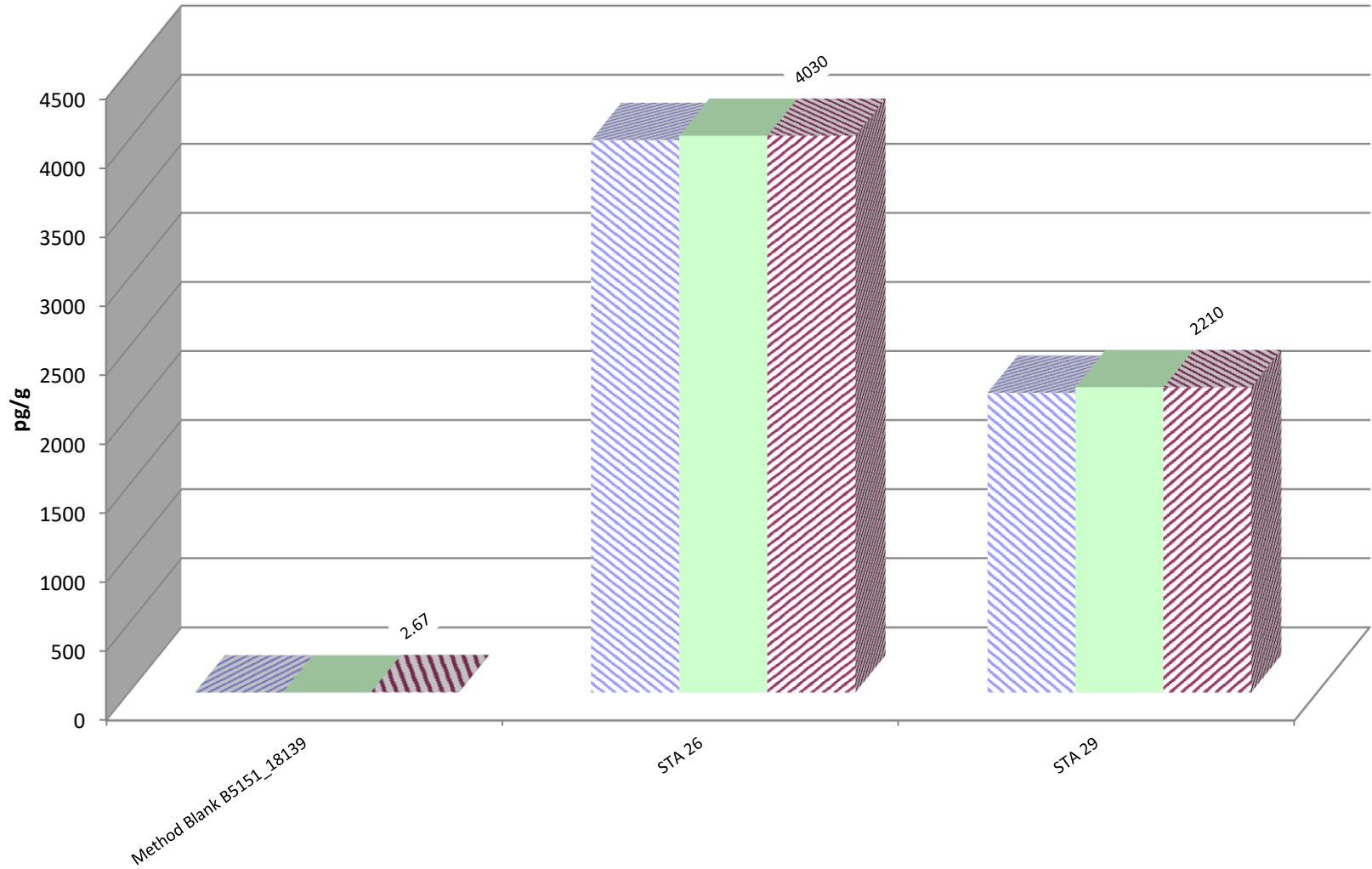
- ND=0; EMPC=0
- ND=0; EMPC=EMPC
- ND=DL/2; EMPC=0
- ND=DL/2; EMPC=EMPC
- ND=DL; EMPC=EMPC



Totals

Project ID: Upper Perdido Bay B5151

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

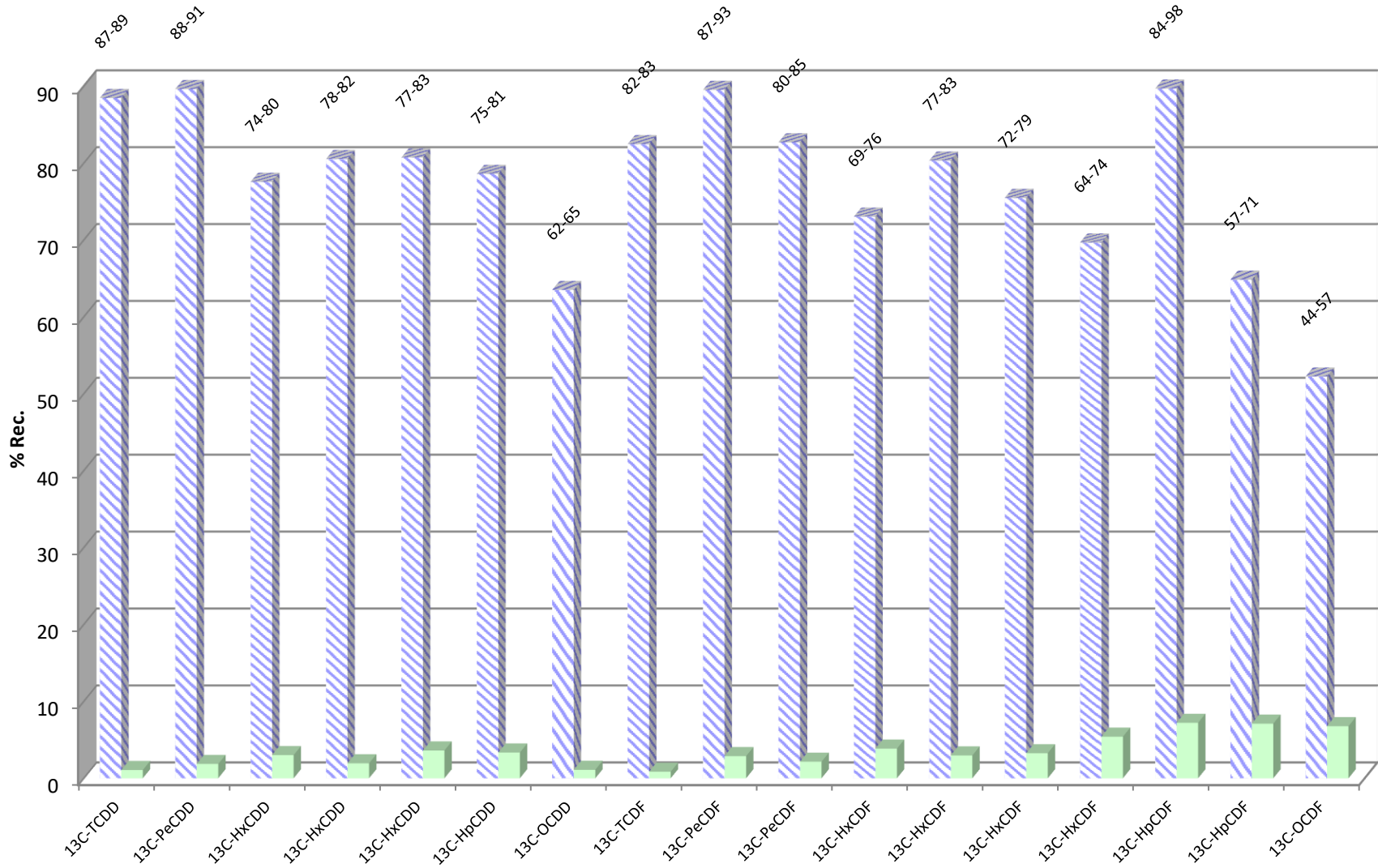


Mean Recoveries of Extraction Standards (N=3)

Project ID: Upper Perdido Bay

B5151

Mean Std. Dev.

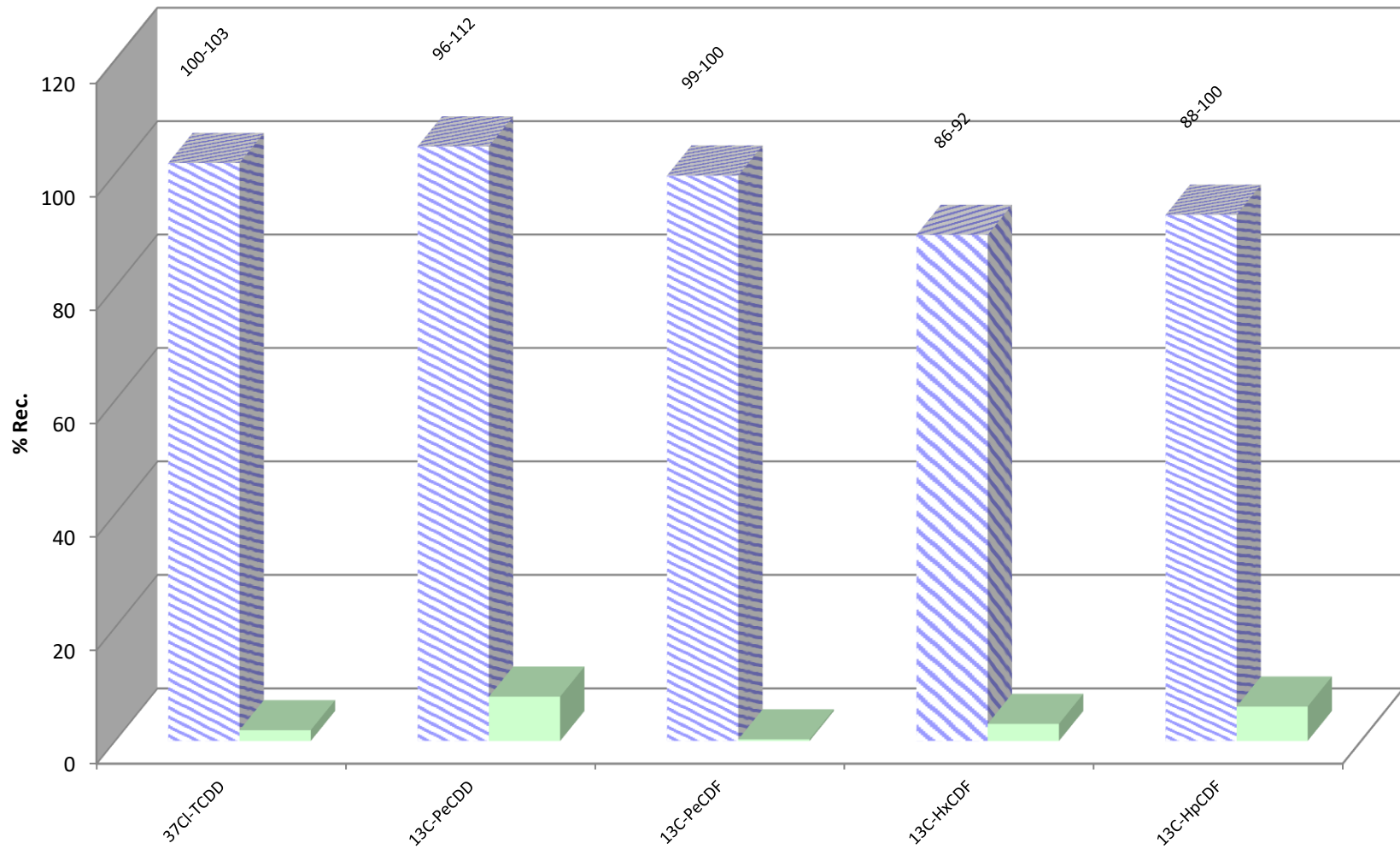


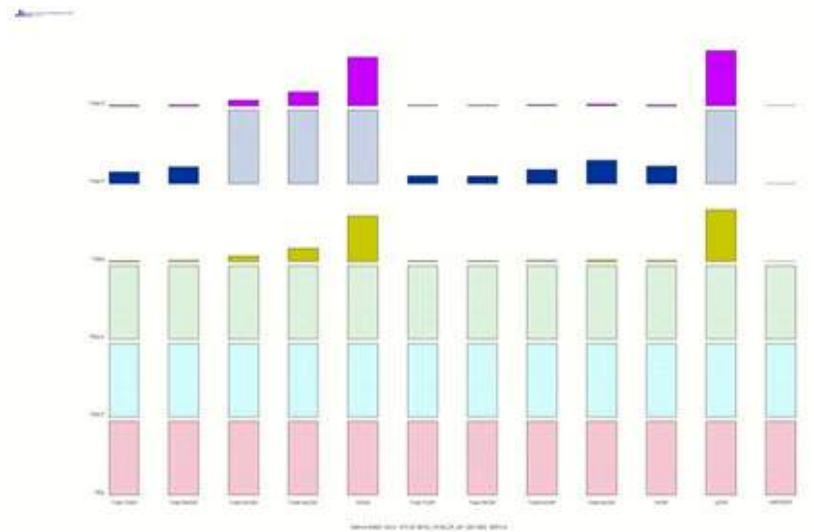
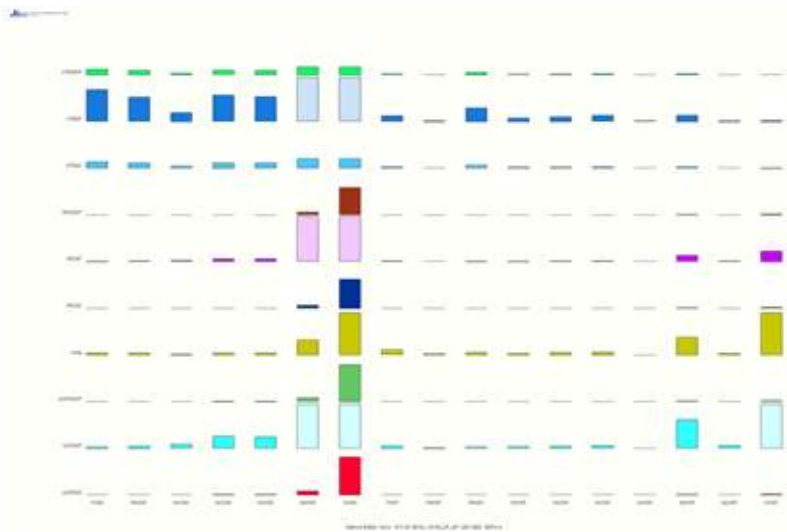
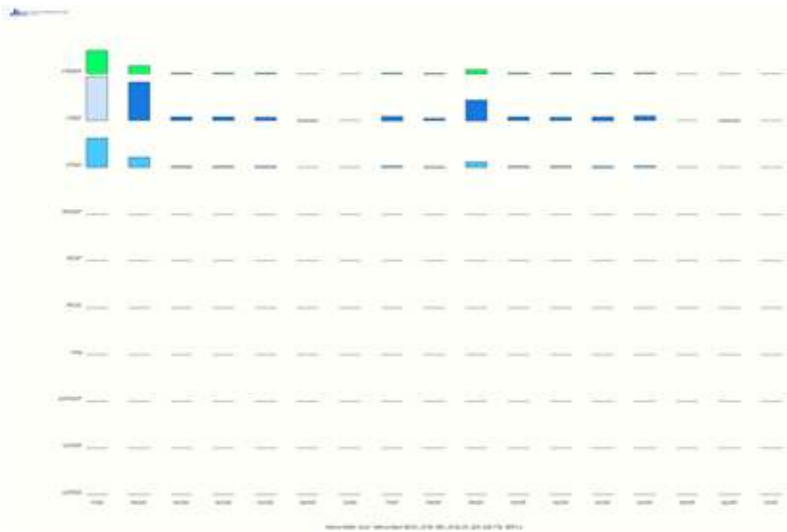
Mean Recoveries of Clean-Up Standards (N=3)

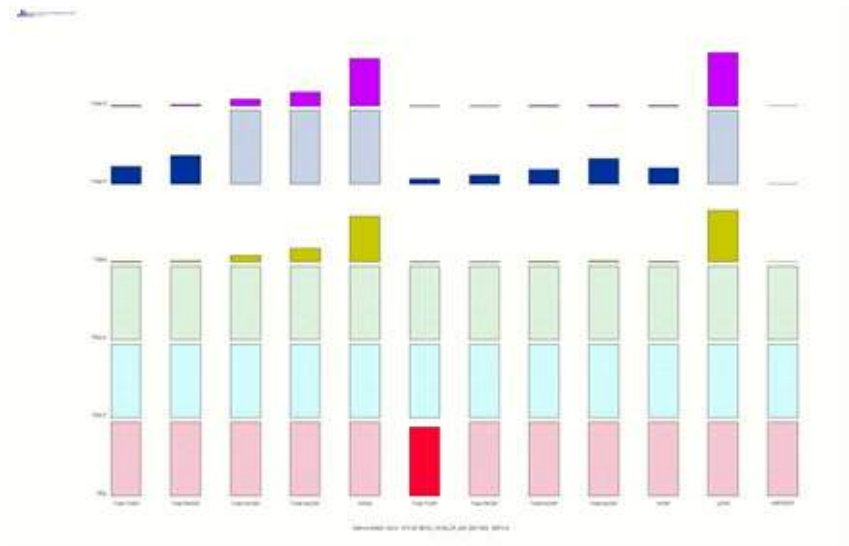
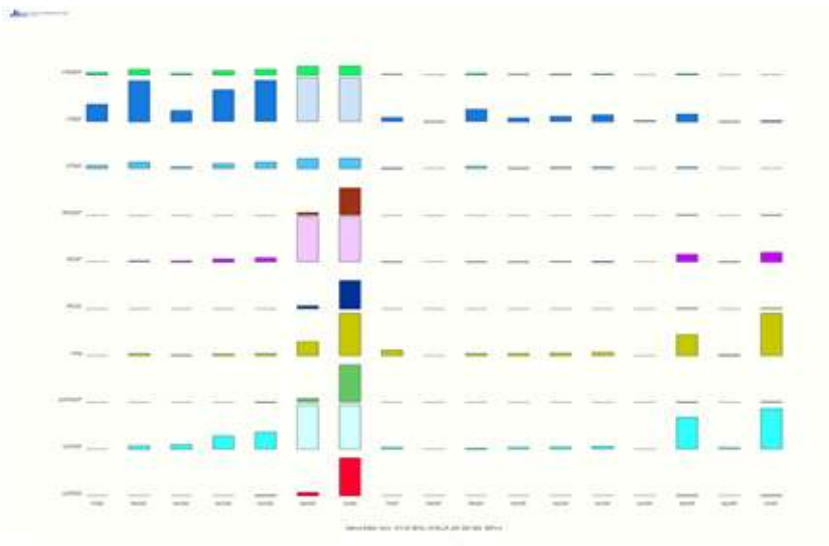
Project ID: Upper Perdido Bay

B5151

Mean Std. Dev.








Sample ID: STA 26

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Project ID:	B5151	Date Received:	08-Apr-2021
Project ID:	Upper Perdido Bay	Weight/Volume:	5.09 g	Lab Sample ID:	B5151_18139_DF_001	Date Extracted:	15-Apr-2021
Date Collected:	06-Apr-2021	% Solid:	25.8%	QC Batch No:	18139	Date Analyzed:	22-Apr-2021
		Split:	-	Dilution:	-	Time Analyzed:	11:32:21

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	1.8				ES 2378-TCDD	88.7	
12378-PeCDD	2.77			J	ES 12378-PeCDD	90.9	
123478-HxCDD	5.04				ES 123478-HxCDD	78.5	
123678-HxCDD	14.9				ES 123678-HxCDD	81	
123789-HxCDD	14.1				ES 123789-HxCDD	82.3	
1234678-HpCDD	261				ES 1234678-HpCDD	81.4	
OCDD	2,620				ES OCDD	64.6	
2378-TCDF	3.2				ES 2378-TCDF	82.5	
12378-PeCDF	EMPC		0.798	J	ES 12378-PeCDF	86.9	
23478-PeCDF	1.53			J	ES 23478-PeCDF	84.8	
123478-HxCDF	1.97			J	ES 123478-HxCDF	75.5	
123678-HxCDF	2.57			J	ES 123678-HxCDF	80.7	
234678-HxCDF	EMPC		3.42	J	ES 234678-HxCDF	78.7	
123789-HxCDF	ND	0.41			ES 123789-HxCDF	73.6	
1234678-HpCDF	35.2				ES 1234678-HpCDF	87.3	
1234789-HpCDF	3.41			J	ES 1234789-HpCDF	70.6	
OCDF	62.4				ES OCDF	57.1	
Totals					Standard	CS Recoveries	
Total TCDD	37.2		41.4		CS 37Cl-2378-TCDD	103	
Total PeCDD	59.5		60.2		CS 12347-PeCDD	112	
Total HxCDD	306		310		CS 123469-HxCDF	91.5	
Total HpCDD	747		747		CS 1234689-HpCDF	99.7	
Total TCDF	17.2		27.7				
Total PeCDF	17		26.6				
Total HxCDF	45.5		49.8				
Total HpCDF	84.3		84.3				
Total PCDD/Fs	4,000		4,030				
ITEF TEQs							
TEQ: ND=0	13.8		14.2				
TEQ: ND=DL/2	13.8	0.679	14.2				
TEQ: ND=DL	13.8	1.36	14.2				



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Sample ID: STA 26

Method 8290A

Client Data			Sample Data			Laboratory Data						
Name:	Friends of Perdido Bay		Matrix:	Solid		Lab Project ID:	B5151		Date Received:	08-Apr-2021		
Project ID:	Upper Perdido Bay		Weight/Volume:	5.09 g		Lab Sample ID:	B5151_18139_DF_001		Date Extracted:	15-Apr-2021		
Date Collected:	06-Apr-2021		% Solid:	25.8%		QC Batch No.:	18139		Date Analyzed:	22-Apr-2021		
			Split:	-		Dilution:	-		Time Analyzed:	11:32:21		

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	7.68		12479/12468D	13.2		124679/124689D	169		1234679D	486	
1379D	1.78		12469D	16.4		123468D	9.09		1234678D	261	
1369D	1.84		12368D	4.58	J	123679/123689D	89.7				
1469D	15		12478D	4.41	J	123469D	[4.28]	J			
1247D...[4]	[1.93]		12379D	3.02	J	123478D	5.04				
1378D	[1.17]		12369D...[3]	11.3		123678D	14.9				
1268D	(0.65)		12346/12347D	[0.739]	J	123467D	4.37	J			
1478D	(0.65)		12378D	2.77	J	123789D	14.1		Conc.	747	
1279D	[1.1]		12367D	1.14	J				EMPC	747	
1234/1269D	4.18		12389D	2.74	J						
1236D	(0.65)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	3.13									(pg/g)	
1239D	(0.65)								OCDD	2620	
2378D	1.8										
1278D	(0.65)										
1267D	0.822	J									
1289D	0.98	J									
Conc.	37.2		Conc.	59.5		Conc.	306				
EMPC	41.4		EMPC	60.2		EMPC	310				



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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	13.8	14.2
TEQ: ND=DL/2	13.8	14.2
TEQ: ND=DL	13.8	14.2
Total PCDD/Fs	Conc.	EMPC
	4,000	4,030

Checkcode: 861-552-ZPZ

Report Created: 23-Apr-2021 08:57 Analyst: gd

Sample ID: STA 26

Method 8290A

Client Data			Sample Data			Laboratory Data					
Name: Friends of Perdido Bay			Matrix: Solid			Lab Project ID: B5151			Date Received: 08-Apr-2021		
Project ID: Upper Perdido Bay			Weight/Volume: 5.09 g			Lab Sample ID: B5151_18139_DF_001			Date Extracted: 15-Apr-2021		
Date Collected: 06-Apr-2021			% Solid: 25.8%			QC Batch No.: 18139			Date Analyzed: 22-Apr-2021		
			Split: -			Dilution: -			Time Analyzed: 11:32:21		
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	1.07		13468/12468F	12.2		123468F	6.36		1234678F	35.2	
1468F	1.37		13678F...[3]	1.62	J	124678/134678F	20.6		1234679F	1.74	J
2468F	6.65		12368F...[3]	[4.79]	J	134679F	(0.368)		1234689F	44	
1346/1246F	[0.702]	J	14678F	[0.529]	J	124679F	[0.896]	J	1234789F	3.41	J
1347F...[3]	[0.693]	J	13479F	(0.335)		124689F	13.6				
1348F	0.393	J	13469/12479F	[0.352]	J	123467F	0.424	J			
1248F...[3]	1.61		12346F	(0.335)		123478F	1.97	J			
1268F	0.85	J	23468/12469F	[2.73]	J	123678F	2.57	J			
1467F	[1.45]		12347F	(0.335)		123479F	(0.368)				
1478F	[0.903]	J	12348F	0.839	J	123469F	(0.368)				
1369/1237F	(0.336)		12378F	[0.798]	J	123679F	(0.368)				
2467F	[0.704]	J	12678/12367F	0.836	J	234678F	[3.42]	J	Conc.	84.3	
2368F	[1.14]		12379F	(0.335)		234678/123689F	0		EMPC	84.3	
1238F...[5]	[1.28]		12679F	(0.335)		123689F	(0.368)				
1278F	2.1		23467/12369F	[0.384]	J	123789F	(0.41)		Octa-Furan	Conc	Qualifiers
1349F	(0.336)		23478F	1.53	J	123789/123489F	0			(pg/g)	
1267F	[0.554]	J	23478/12489F	0		123489F	(0.368)		OCDF	62.4	
2346/1249F	(0.336)		12489F	(0.335)							
2347/1279F	(0.336)		12349F	(0.335)							
2348F	[0.328]	J	12389F	(0.335)							
2378F	3.2										
2367/3467F	[2.17]										
1269F	(0.336)										
1239F	(0.336)										
1289F	[0.544]	J									
Conc.	17.2		Conc.	17		Conc.	45.5				
EMPC	27.7		EMPC	26.6		EMPC	49.8				

Checkcode: 861-552-ZPZ

Report Created: 23-Apr-2021 08:57 Analyst: gd


Sample ID: STA 26

TEQ Summary

Method 8290A

Client Project Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Sample ID:	B5151_18139_DF_001
Client Project ID:	Upper Perdido Bay	Weight/Volume:	5.09 g	QC Batch No.:	18139
Date Collected:	06-Apr-2021	Split:	-	Date Extracted:	15-Apr-2021
Date Received:	08-Apr-2021	Dilution:	-	Date Analyzed:	22-Apr-2021 11:32
Lab Project No:	B5151	Units	pg/g		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	1.8		0.65	1.8	1.8	1.8
12378-PeCDD	2.77	J	0.477	1.38	2.77	2.77
123478-HxCDD	5.04		0.336	0.504	0.504	0.504
123678-HxCDD	14.9		0.328	1.49	1.49	1.49
123789-HxCDD	14.1		0.316	1.41	1.41	1.41
1234678-HpCDD	261		0.381	2.61	2.61	2.61
OCDD	2620		0.529	2.62	0.262	0.786
2378-TCDF	3.2		0.336	0.32	0.32	0.32
12378-PeCDF	[0.798]	J	0.339	[0.0399]	[0.0399]	[0.0239]
23478-PeCDF	1.53	J	0.331	0.767	0.767	0.46
123478-HxCDF	1.97	J	0.377	0.197	0.197	0.197
123678-HxCDF	2.57	J	0.338	0.257	0.257	0.257
234678-HxCDF	[3.42]	J	0.36	[0.342]	[0.342]	[0.342]
123789-HxCDF	(0.41)		0.41	(0.041)	(0.041)	(0.041)
1234678-HpCDF	35.2		0.123	0.352	0.352	0.352
1234789-HpCDF	3.41	J	0.172	0.0341	0.0341	0.0341
OCDF	62.4		0.407	0.0624	0.00624	0.0187

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	EMPC = 0, ND = 0	13.8	12.8	13
	EMPC = 0, ND = DL / 2	13.8	12.8	13
	EMPC = 0, ND = DL	13.8	12.8	13
	EMPC = 0, < J-level = 0	11.2	8.74	9.28
	EMPC = EMPC, ND = 0	14.2	13.1	13.4
	EMPC = EMPC, ND = DL / 2	14.2	13.2	13.4
	EMPC = EMPC, ND = DL	14.2	13.2	13.4
	EMPC = EMPC, < J-level = 0	11.2	8.74	9.28

Sample ID: STA 29

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Project ID:	B5151	Date Received:	08-Apr-2021
Project ID:	Upper Perdido Bay	Weight/Volume:	5.50 g	Lab Sample ID:	B5151_18139_DF_002	Date Extracted:	15-Apr-2021
Date Collected:	06-Apr-2021	% Solid:	27.1%	QC Batch No:	18139	Date Analyzed:	22-Apr-2021
		Split:	-	Dilution:	-	Time Analyzed:	12:19:47

Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.727			ES 2378-TCDD	87.3	
12378-PeCDD	1.73			J	ES 12378-PeCDD	87.5	
123478-HxCDD	EMPC		2.37	J	ES 123478-HxCDD	74.2	
123678-HxCDD	6.71				ES 123678-HxCDD	78.4	
123789-HxCDD	8.69				ES 123789-HxCDD	76.6	
1234678-HpCDD	138				ES 1234678-HpCDD	74.9	
OCDD	1,430				ES OCDD	63.5	
2378-TCDF	EMPC		0.831	J	ES 2378-TCDF	83.3	
12378-PeCDF	ND	0.296			ES 12378-PeCDF	89.1	
23478-PeCDF	EMPC		0.514	J	ES 23478-PeCDF	82.8	
123478-HxCDF	EMPC		0.791	J	ES 123478-HxCDF	75	
123678-HxCDF	EMPC		1.1	J	ES 123678-HxCDF	77.2	
234678-HxCDF	EMPC		1.45	J	ES 234678-HxCDF	75.5	
123789-HxCDF	ND	0.358			ES 123789-HxCDF	71.9	
1234678-HpCDF	16.3				ES 1234678-HpCDF	84	
1234789-HpCDF	EMPC		0.704	J	ES 1234789-HpCDF	67	
OCDF	20.8				ES OCDF	55.1	
Totals					Standard	CS Recoveries	
Total TCDD	21.8		22.9		CS 37Cl-2378-TCDD	103	
Total PeCDD	24.2		36.8		CS 12347-PeCDD	96.5	
Total HxCDD	198		206		CS 12346-PeCDF	99.4	
Total HpCDD	420		420		CS 123469-HxCDF	90.4	
					CS 1234689-HpCDF	90.2	
Total TCDF	3.4		6.59				
Total PeCDF	8.36		11.5				
Total HxCDF	13.2		18.6				
Total HpCDF	31.4		33				
Total PCDD/Fs	2,170		2,210				
ITEF TEQs							
TEQ: ND=0	5.41		6.32				
TEQ: ND=DL/2	5.79	0.778	6.71				
TEQ: ND=DL	6.18	1.56	7.1				



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Sample ID: STA 29

Method 8290A

Client Data			Sample Data			Laboratory Data						
Name:	Friends of Perdido Bay		Matrix:	Solid		Lab Project ID:	B5151		Date Received:	08-Apr-2021		
Project ID:	Upper Perdido Bay		Weight/Volume:	5.50 g		Lab Sample ID:	B5151_18139_DF_002		Date Extracted:	15-Apr-2021		
Date Collected:	06-Apr-2021		% Solid:	27.1%		QC Batch No.:	18139		Date Analyzed:	22-Apr-2021		
			Split:	-		Dilution:	-		Time Analyzed:	12:19:47		

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	3.33		12479/12468D	7.91		124679/124689D	124		1234679D	281	
1379D	[1.01]		12469D	12.5		123468D	5.16		1234678D	138	
1369D	(0.727)		12368D	[1.67]	J	123679/123689D	54.3				
1469D	12.2		12478D	2.05	J	123469D	[2.5]	J			
1247D...[4]	2.13		12379D	[1.4]	J	123478D	[2.37]	J			
1378D	(0.727)		12369D...[3]	[7.63]		123678D	6.71				
1268D	(0.727)		12346/12347D	(0.634)		123467D	[2.43]	J			
1478D	(0.727)		12378D	1.73	J	123789D	8.69		Conc.	420	
1279D	(0.727)		12367D	[0.603]	J				EMPC	420	
1234/1269D	3.04		12389D	[1.31]	J						
1236D	(0.727)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	1.18									(pg/g)	
1239D	(0.727)								OCDD	1430	
2378D	(0.727)										
1278D	(0.727)										
1267D	(0.727)										
1289D	(0.727)										
Conc.	21.8		Conc.	24.2		Conc.	198				
EMPC	22.9		EMPC	36.8		EMPC	206				



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ITEF TEQs	Conc.	EMPC
TEQ: ND=0	5.41	6.32
TEQ: ND=DL/2	5.79	6.71
TEQ: ND=DL	6.18	7.1
Total PCDD/Fs	Conc.	EMPC
	2,170	2,210

Checkcode: 087-363-PVD

Report Created: 23-Apr-2021 08:58 Analyst: gd

Sample ID: STA 29

Method 8290A

Client Data			Sample Data			Laboratory Data					
Name: Friends of Perdido Bay			Matrix:			Lab Project ID: B5151			Date Received: 08-Apr-2021		
Project ID: Upper Perdido Bay			Weight/Volume: 5.50 g			Lab Sample ID: B5151_18139_DF_002			Date Extracted: 15-Apr-2021		
Date Collected: 06-Apr-2021			% Solid: 27.1%			QC Batch No.: 18139			Date Analyzed: 22-Apr-2021		
			Split: -			Dilution: -			Time Analyzed: 12:19:47		
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	(0.331)		13468/12468F	5.71		123468F	[2.07]	J	1234678F	16.3	
1468F	0.449	J	13678F...[3]	0.99	J	124678/134678F	8.41		1234679F	[0.971]	J
2468F	2.96		12368F...[3]	[2.3]	J	134679F	(0.336)		1234689F	15.1	
1346/1246F	(0.331)		14678F	(0.299)		124679F	(0.336)		1234789F	[0.704]	J
1347F...[3]	(0.331)		13479F	(0.299)		124689F	4.8				
1348F	(0.331)		13469/12479F	(0.299)		123467F	(0.336)				
1248F...[3]	(0.331)		12346F	(0.299)		123478F	[0.791]	J			
1268F	(0.331)		23468/12469F	1.14	J	123678F	[1.1]	J			
1467F	(0.331)		12347F	(0.299)		123479F	(0.336)				
1478F	(0.331)		12348F	(0.299)		123469F	(0.336)				
1369/1237F	(0.331)		12378F	(0.296)		123679F	(0.336)				
2467F	(0.331)		12678/12367F	[0.283]	J	234678F	[1.45]	J	Conc.	31.4	
2368F	[0.478]	J	12379F	(0.299)		234678/123689F	0		EMPC	33	
1238F...[5]	(0.331)		12679F	(0.299)		123689F	(0.336)				
1278F	[0.469]	J	23467/12369F	0.516	J	123789F	(0.358)		Octa-Furan	Conc	Qualifiers
1349F	(0.331)		23478F	[0.514]	J	123789/123489F	0			(pg/g)	
1267F	[0.291]	J	23478/12489F	0		123489F	(0.336)		OCDF	20.8	
2346/1249F	(0.331)		12489F	(0.299)							
2347/1279F	(0.331)		12349F	(0.299)							
2348F	(0.331)		12389F	(0.299)							
2378F	[0.831]	J									
2367/3467F	[1.12]										
1269F	(0.331)										
1239F	(0.331)										
1289F	(0.331)										
Conc.	3.4		Conc.	8.36		Conc.	13.2				
EMPC	6.59		EMPC	11.5		EMPC	18.6				


Checkcode: 087-363-PVD

Report Created: 23-Apr-2021 08:58 Analyst: gd

Sample ID: STA 29 **TEQ Summary** **Method 8290A**

Client Project Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Sample ID:	B5151_18139_DF_002
Client Project ID:	Upper Perdido Bay	Weight/Volume:	5.50 g	QC Batch No.:	18139
Date Collected:	06-Apr-2021	Split:	-	Date Extracted:	15-Apr-2021
Date Received:	08-Apr-2021	Dilution:	-	Date Analyzed:	22-Apr-2021 12:19
Lab Project No:	B5151	Units	pg/g		


Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(0.727)		0.727	(0.727)	(0.727)	(0.727)
12378-PeCDD	1.73	J	0.634	0.865	1.73	1.73
123478-HxCDD	[2.37]	J	0.602	[0.237]	[0.237]	[0.237]
123678-HxCDD	6.71		0.525	0.671	0.671	0.671
123789-HxCDD	8.69		0.549	0.869	0.869	0.869
1234678-HpCDD	138		0.342	1.38	1.38	1.38
OCDD	1430		0.713	1.43	0.143	0.43
2378-TCDF	[0.831]	J	0.331	[0.0831]	[0.0831]	[0.0831]
12378-PeCDF	(0.296)		0.296	(0.0148)	(0.0148)	(0.00887)
23478-PeCDF	[0.514]	J	0.303	[0.257]	[0.257]	[0.154]
123478-HxCDF	[0.791]	J	0.333	[0.0791]	[0.0791]	[0.0791]
123678-HxCDF	[1.1]	J	0.32	[0.11]	[0.11]	[0.11]
234678-HxCDF	[1.45]	J	0.337	[0.145]	[0.145]	[0.145]
123789-HxCDF	(0.358)		0.358	(0.0358)	(0.0358)	(0.0358)
1234678-HpCDF	16.3		0.244	0.163	0.163	0.163
1234789-HpCDF	[0.704]	J	0.315	[0.00704]	[0.00704]	[0.00704]
OCDF	20.8		0.62	0.0208	0.00208	0.00624

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	EMPC = 0, ND = 0	5.41	4.96	5.25
	EMPC = 0, ND = DL / 2	5.79	5.35	5.64
	EMPC = 0, ND = DL	6.18	5.74	6.02
	EMPC = 0, < J-level = 0	4.54	3.23	3.52
	EMPC = EMPC, ND = 0	6.32	5.88	6.07
	EMPC = EMPC, ND = DL / 2	6.71	6.27	6.45
	EMPC = EMPC, ND = DL	7.1	6.66	6.84
EMPC = EMPC, < J-level = 0	4.54	3.23	3.52	

Sample ID: Method Blank B5151_18139

Method 8290A

Client Data		Sample Data		Laboratory Data			
Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Project ID:	B5151	Date Received:	n/a
Project ID:	Upper Perdido Bay	Weight/Volume:	10.00 g	Lab Sample ID:	MB1_18139_DF_SDS	Date Extracted:	15-Apr-2021
Date Collected:	n/a	% Solid:	n/a	QC Batch No:	18139	Date Analyzed:	22-Apr-2021
		Split:	-	Dilution:	-	Time Analyzed:	10:44:53
Analyte	Conc. (pg/g)	DL (pg/g)	EMPC (pg/g)	Qualifiers	Standard	ES Recoveries	Qualifiers
2378-TCDD	ND	0.387			ES 2378-TCDD	89.4	
12378-PeCDD	ND	0.265			ES 12378-PeCDD	90.5	
123478-HxCDD	ND	0.12			ES 123478-HxCDD	80	
123678-HxCDD	ND	0.127			ES 123678-HxCDD	82.2	
123789-HxCDD	ND	0.113			ES 123789-HxCDD	83.3	
1234678-HpCDD	ND	0.0993			ES 1234678-HpCDD	79.5	
OCDD	ND	0.21			ES OCDD	62.4	
2378-TCDF	ND	0.143			ES 2378-TCDF	81.6	
12378-PeCDF	ND	0.135			ES 12378-PeCDF	92.6	
23478-PeCDF	ND	0.142			ES 23478-PeCDF	80.5	
123478-HxCDF	ND	0.124			ES 123478-HxCDF	68.6	
123678-HxCDF	ND	0.11			ES 123678-HxCDF	83.1	
234678-HxCDF	ND	0.132			ES 234678-HxCDF	72.2	
123789-HxCDF	ND	0.147			ES 123789-HxCDF	63.5	
1234678-HpCDF	ND	0.0584			ES 1234678-HpCDF	97.8	
1234789-HpCDF	ND	0.111			ES 1234789-HpCDF	56.9	
OCDF	ND	0.247			ES OCDF	44.5	
Totals					Standard	CS Recoveries	
Total TCDD	ND	0.387	ND		CS 37Cl-2378-TCDD	99.7	
Total PeCDD	ND	0.265	ND		CS 12347-PeCDD	106	
Total HxCDD	ND	0.119	ND		CS 12346-PeCDF	99.7	
Total HpCDD	ND	0.0993	ND		CS 123469-HxCDF	85.8	
					CS 1234689-HpCDF	88.4	
Total TCDF	ND	0.143	ND				
Total PeCDF	ND	0.138	ND				
Total HxCDF	ND	0.126	ND				
Total HpCDF	ND	0.0773	ND				
Total PCDD/Fs	ND		ND				
ITEF TEQs							
TEQ: ND=0	0		0				
TEQ: ND=DL/2	0.351	0.351	0.351				
TEQ: ND=DL	0.702	0.702	0.702				



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Sample ID: Method Blank B5151_18139

Method 8290A

Client Data			Sample Data			Laboratory Data						
Name:	Friends of Perdido Bay		Matrix:	Solid		Lab Project ID:	B5151		Date Received:	n/a		
Project ID:	Upper Perdido Bay		Weight/Volume:	10.00 g		Lab Sample ID:	MB1_18139_DF_SDS		Date Extracted:	15-Apr-2021		
Date Collected:	n/a		% Solid:	n/a		QC Batch No.:	18139		Date Analyzed:	22-Apr-2021		
			Split:	-		Dilution:	-		Time Analyzed:	10:44:53		

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	(0.387)		12479/12468D	(0.265)		124679/124689D	(0.119)		1234679D	(0.0993)	
1379D	(0.387)		12469D	(0.265)		123468D	(0.119)		1234678D	(0.0993)	
1369D	(0.387)		12368D	(0.265)		123679/123689D	(0.119)				
1469D	(0.387)		12478D	(0.265)		123469D	(0.119)				
1247D...[4]	(0.387)		12379D	(0.265)		123478D	(0.12)				
1378D	(0.387)		12369D...[3]	(0.265)		123678D	(0.127)				
1268D	(0.387)		12346/12347D	(0.265)		123467D	(0.119)				
1478D	(0.387)		12378D	(0.265)		123789D	(0.113)		Conc.	0	
1279D	(0.387)		12367D	(0.265)					EMPC	0	
1234/1269D	(0.387)		12389D	(0.265)							
1236D	(0.387)								Octa-Dioxin	Conc	Qualifiers
1237/1238D	(0.387)									(pg/g)	
1239D	(0.387)								OCDD	(0.21)	
2378D	(0.387)										
1278D	(0.387)										
1267D	(0.387)										
1289D	(0.387)										
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	0.351	0.351
TEQ: ND=DL	0.702	0.702
Total PCDD/Fs	Conc.	EMPC
	0	0

Checkcode: 426-776-QVW

Report Created: 23-Apr-2021 08:57 Analyst: gd

Sample ID: Method Blank B5151_18139

Method 8290A

Client Data			Sample Data			Laboratory Data			Date Received: n/a		
Name: Friends of Perdido Bay			Matrix:			Lab Project ID: B5151			Date Received: n/a		
Project ID: Upper Perdido Bay			Weight/Volume: 10.00 g			Lab Sample ID: MB1_18139_DF_SDS			Date Extracted: 15-Apr-2021		
Date Collected: n/a			% Solid: n/a			QC Batch No.: 18139			Date Analyzed: 22-Apr-2021		
			Split: -			Dilution: -			Time Analyzed: 10:44:53		
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	(0.143)		13468/12468F	(0.137)		123468F	(0.126)		1234678F	(0.0584)	
1468F	(0.143)		13678F...[3]	(0.138)		124678/134678F	(0.126)		1234679F	(0.0773)	
2468F	(0.143)		12368F...[3]	(0.138)		134679F	(0.126)		1234689F	(0.0773)	
1346/1246F	(0.143)		14678F	(0.138)		124679F	(0.126)		1234789F	(0.111)	
1347F...[3]	(0.143)		13479F	(0.138)		124689F	(0.126)				
1348F	(0.143)		13469/12479F	(0.138)		123467F	(0.126)				
1248F...[3]	(0.143)		12346F	(0.138)		123478F	(0.124)				
1268F	(0.143)		23468/12469F	(0.138)		123678F	(0.11)				
1467F	(0.143)		12347F	(0.138)		123479F	(0.126)				
1478F	(0.143)		12348F	(0.138)		123469F	(0.126)				
1369/1237F	(0.143)		12378F	(0.135)		123679F	(0.126)				
2467F	(0.143)		12678/12367F	(0.138)		234678F	(0.132)		Conc.	0	
2368F	(0.143)		12379F	(0.138)		234678/123689F	0		EMPC	0	
1238F...[5]	(0.143)		12679F	(0.138)		123689F	(0.126)				
1278F	(0.143)		23467/12369F	(0.138)		123789F	(0.147)		Octa-Furan	Conc	Qualifiers
1349F	(0.143)		23478F	(0.142)		123789/123489F	0			(pg/g)	
1267F	(0.143)		23478/12489F	0		123489F	(0.126)		OCDF	(0.247)	
2346/1249F	(0.143)		12489F	(0.138)							
2347/1279F	(0.143)		12349F	(0.138)							
2348F	(0.143)		12389F	(0.138)							
2378F	(0.143)										
2367/3467F	(0.143)										
1269F	(0.143)										
1239F	(0.143)										
1289F	(0.143)										
Conc.	0		Conc.	0		Conc.	0				
EMPC	0		EMPC	0		EMPC	0				


Checkcode: 426-776-QVW

Report Created: 23-Apr-2021 08:57 Analyst: gd

Sample ID: Method Blank B5151_18139 **TEQ Summary** **Method 8290A**

Client Project Name:	Friends of Perdido Bay	Matrix:	Solid	Lab Sample ID:	MB1_18139_DF_SDS
Client Project ID:	Upper Perdido Bay	Weight/Volume:	10.00 g	QC Batch No.:	18139
Date Collected:	n/a	Split:	-	Date Extracted:	15-Apr-2021
Date Received:	n/a	Dilution:	-	Date Analyzed:	22-Apr-2021 10:44
Lab Project No:	B5151	Units	pg/g		

Analyte	Result	Qualifiers	DLs	I-TEQ	WHO-1998	WHO-2005
2378-TCDD	(0.387)		0.387	(0.387)	(0.387)	(0.387)
12378-PeCDD	(0.265)		0.265	(0.133)	(0.265)	(0.265)
123478-HxCDD	(0.12)		0.12	(0.012)	(0.012)	(0.012)
123678-HxCDD	(0.127)		0.127	(0.0127)	(0.0127)	(0.0127)
123789-HxCDD	(0.113)		0.113	(0.0113)	(0.0113)	(0.0113)
1234678-HpCDD	(0.0993)		0.0993	(0.000993)	(0.000993)	(0.000993)
OCDD	(0.21)		0.21	(0.00021)	(0.000021)	(0.0000631)
2378-TCDF	(0.143)		0.143	(0.0143)	(0.0143)	(0.0143)
12378-PeCDF	(0.135)		0.135	(0.00677)	(0.00677)	(0.00406)
23478-PeCDF	(0.142)		0.142	(0.071)	(0.071)	(0.0426)
123478-HxCDF	(0.124)		0.124	(0.0124)	(0.0124)	(0.0124)
123678-HxCDF	(0.11)		0.11	(0.011)	(0.011)	(0.011)
234678-HxCDF	(0.132)		0.132	(0.0132)	(0.0132)	(0.0132)
123789-HxCDF	(0.147)		0.147	(0.0147)	(0.0147)	(0.0147)
1234678-HpCDF	(0.0584)		0.0584	(0.000584)	(0.000584)	(0.000584)
1234789-HpCDF	(0.111)		0.111	(0.00111)	(0.00111)	(0.00111)
OCDF	(0.247)		0.247	(0.000247)	(0.0000247)	(0.000074)

5500 Business Drive Wilmington, NC 28405, USA Tel: +1 910 794-1613; Toll-Free 866 846-8290 www.us.sgs.com 	TEQ Summaries			
	EMPC = 0, ND = 0	0	0	0
	EMPC = 0, ND = DL / 2	0.351	0.417	0.401
	EMPC = 0, ND = DL	0.702	0.834	0.803
	EMPC = 0, < J-level = 0	0	0	0
	EMPC = EMPC, ND = 0	0	0	0
	EMPC = EMPC, ND = DL / 2	0.351	0.417	0.401
	EMPC = EMPC, ND = DL	0.702	0.834	0.803
EMPC = EMPC, < J-level = 0	0	0	0	

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: 210422R02 Analysis Date: 22-APR-2021 09:09:45
 Lab ID: OPR1_18139_DF

NATIVE ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
2,3,7,8-TCDD	10	11.2	6.7	-	15.8	Y
1,2,3,7,8-PeCDD	50	49.9	35	-	71	Y
1,2,3,4,7,8-HxCDD	50	53.1	35	-	82	Y
1,2,3,6,7,8-HxCDD	50	56	38	-	67	Y
1,2,3,7,8,9-HxCDD	50	50.2	32	-	81	Y
1,2,3,4,6,7,8-HpCDD	50	52.2	35	-	70	Y
OCDD	100	107	78	-	144	Y
2,3,7,8-TCDF	10	11.5	7.5	-	15.8	Y
1,2,3,7,8-PeCDF	50	51.9	40	-	67	Y
2,3,4,7,8-PeCDF	50	58.4	34	-	80	Y
1,2,3,4,7,8-HxCDF	50	52.9	36	-	67	Y
1,2,3,6,7,8-HxCDF	50	54.9	42	-	65	Y
2,3,4,6,7,8-HxCDF	50	55.8	35	-	78	Y
1,2,3,7,8,9-HxCDF	50	50.1	39	-	65	Y
1,2,3,4,6,7,8-HpCDF	50	56.2	41	-	61	Y
1,2,3,4,7,8,9-HpCDF	50	52.7	39	-	69	Y
OCDF	100	99.7	63	-	170	Y

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

Processed: 23 Apr 2021 08:57 Analyst: gd

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: 210422R02 Analysis Date: 22-APR-2021 09:09:45
 Lab ID: OPR1_18139_DF

LABELED ANALYTES	SPIKE CONC.	CONC. FOUND	RANGE (ng/mL)			OK
13C-2,3,7,8-TCDD	100	91.6	20	-	175	Y
13C-1,2,3,7,8-PeCDD	100	94.2	21	-	227	Y
13C-1,2,3,4,7,8-HxCDD	100	82.2	21	-	193	Y
13C-1,2,3,6,7,8-HxCDD	100	82.5	25	-	163	Y
13C-1,2,3,7,8,9-HxCDD	100	83.6	26	-	166	Y
13C-1,2,3,4,6,7,8-HpCDD	100	76.4	26	-	166	Y
13C-OCDD	200	109	26	-	397	Y
13C-2,3,7,8-TCDF	100	83.6	22	-	152	Y
13C-1,2,3,7,8-PeCDF	100	99.2	21	-	192	Y
13C-2,3,4,7,8-PeCDF	100	84.3	13	-	328	Y
13C-1,2,3,4,7,8-HxCDF	100	73.4	19	-	202	Y
13C-1,2,3,6,7,8-HxCDF	100	87.7	21	-	159	Y
13C-2,3,4,6,7,8-HxCDF	100	75.5	22	-	176	Y
13C-1,2,3,7,8,9-HxCDF	100	65.7	17	-	205	Y
13C-1,2,3,4,6,7,8-HpCDF	100	101	21	-	158	Y
13C-1,2,3,4,7,8,9-HpCDF	100	55.9	20	-	186	Y
13C-OCDF	200	81.1	26	-	397	Y
CLEANUP STANDARD						
37Cl-2,3,7,8-TCDD	40	40.2	12.4	-	76.4	Y

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

Processed: 23 Apr 2021 08:57 Analyst: gd



CHAIN OF CUSTODY

B5151

SEND DOCUMENTATION / RESULTS TO

PROJECT INFO

PROJECT: *upper Perdido Bay*

P.O. #:

QUOTE #:

SITE REF:

TURN AROUND TIME:

REPORT LEVEL: Level I Level II Level IV

SPECIAL DELIVERABLES:

D+D EDD/Version:

State of Origin:

SPECIAL INSTRUCTIONS / COMMENTS

PRESERVATIVE									

ANALYSIS & METHOD									

COMPANY:

CONTACT:

ADDRESS:

PHONE:

EMAIL:

INVOICE TO CHECK IF SAME

COMPANY:

CONTACT:

ADDRESS:

PHONE:

EMAIL:

SAMPLE ID / DESCRIPTION	DATE	TIME	QTY	MATRIX	Dioxin															MS MSD	MS/ DUP	REMARKS	
STA 26	4/16/21	935	1	sed	1																		
STA 29	4/16/21	1130	1	sed	1																		

COLLECTED/RELINQUISHED BY (1):	DATE:	TIME:	RECEIVED BY:	RECEIVED BY LABORATORY:	DATE:	TIME:	
				<i>Carlynn Orsini</i>	4/8/2021	11:38	
RELINQUISHED BY (2):	DATE:	TIME:	RECEIVED BY:	COOLER SEAL:	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> BROKEN	<input type="checkbox"/> ABSENT
<i>[Signature]</i>	4/17/21	1500		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	3.8°
				TRACKING #:	7733 8043 2614		

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RIVERVIEW, FL 33578
UNITED STATES US

SHIP DATE: 07APR21
ACTWGHT: 3.00 LB
CAD: 2502398801NET4340
BILL SENDER

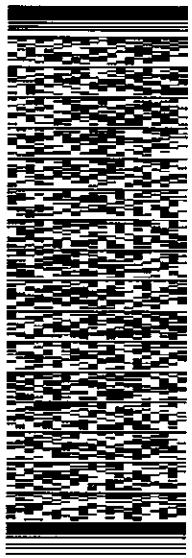
TO AMY BOEHM
SGS - SAMPLE RECEIPT
5500 BUSINESS DRIVE

4/8/2021
11:38
3.8°

56D126E2FE4A

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(910) 794-1613
NW 0010
PO E221000300

REF: 4009002
DEPT: 20145

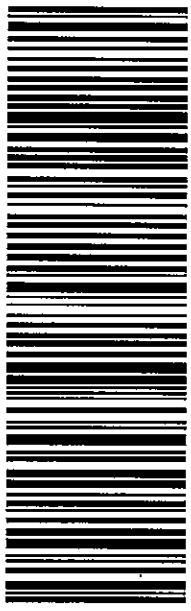


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