



LAB CHRONICLE

OrderID:	P5316	OrderDate:	12/17/2024 3:44:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5316-01	TT-304-IDWSO-20241 217-1	SOIL	PCB Group1	8082A	12/17/24	12/18/24	12/19/24	12/17/24



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.:

P5316

Order ID:

P5316

Client:

Tetra Tech NUS, Inc.

Project ID:

CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				Total Concentration:	0.000				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	TT-304-IDWSO-20241217-1		SDG No.:	P5316	
Lab Sample ID:	P5316-01		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	68.6	Decanted:
Sample Wt/Vol:	30.05	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108648.D	1	12/18/24 08:10	12/19/24 00:02	PB165703

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	12.1	U	4.90	12.1	24.7	ug/kg
11104-28-2	Aroclor-1221	18.9	U	9.30	18.9	24.7	ug/kg
11141-16-5	Aroclor-1232	18.9	U	4.90	18.9	24.7	ug/kg
53469-21-9	Aroclor-1242	12.1	U	4.90	12.1	24.7	ug/kg
12672-29-6	Aroclor-1248	18.9	U	11.5	18.9	24.7	ug/kg
11097-69-1	Aroclor-1254	18.9	U	4.00	18.9	24.7	ug/kg
37324-23-5	Aroclor-1262	12.1	U	6.70	12.1	24.7	ug/kg
11100-14-4	Aroclor-1268	18.9	U	5.00	18.9	24.7	ug/kg
11096-82-5	Aroclor-1260	12.1	U	4.20	12.1	24.7	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.1		44 - 130		90%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.9		60 - 125		89%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit



QC SUMMARY

Surrogate Summary

SDG No.: **P5316**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **8082A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PO108361.D	PIBLK-PO108361.D	Tetrachloro-m-xylene	1	20	23.0	115		60	140
		Decachlorobiphenyl	1	20	23.6	118		60	140
		Tetrachloro-m-xylene	2	20	21.6	108		60	140
		Decachlorobiphenyl	2	20	23.6	118		60	140
I.BLK-PO108624.D	PIBLK-PO108624.D	Tetrachloro-m-xylene	1	20	20.4	102		60	140
		Decachlorobiphenyl	1	20	20.2	101		60	140
		Tetrachloro-m-xylene	2	20	21.3	107		60	140
		Decachlorobiphenyl	2	20	23.4	117		60	140
PB165703BL	PB165703BL	Tetrachloro-m-xylene	1	20	18.9	94		44	130
		Decachlorobiphenyl	1	20	19.2	96		60	125
		Tetrachloro-m-xylene	2	20	19.5	98		44	130
		Decachlorobiphenyl	2	20	22.0	110		60	125
PB165703BS	PB165703BS	Tetrachloro-m-xylene	1	20	17.7	89		44	130
		Decachlorobiphenyl	1	20	19.3	96		60	125
		Tetrachloro-m-xylene	2	20	18.4	92		44	130
		Decachlorobiphenyl	2	20	22.3	112		60	125
P5306-01MS	OU4-VSL-07-121224MS	Tetrachloro-m-xylene	1	20	22.4	112		44	130
		Decachlorobiphenyl	1	20	23.8	119		60	125
		Tetrachloro-m-xylene	2	20	23.1	115		44	130
		Decachlorobiphenyl	2	20	27.4	137	*	60	125
P5306-01MSD	OU4-VSL-07-121224MSD	Tetrachloro-m-xylene	1	20	22.5	112		44	130
		Decachlorobiphenyl	1	20	20.6	103		60	125
		Tetrachloro-m-xylene	2	20	23.3	117		44	130
		Decachlorobiphenyl	2	20	23.9	119		60	125
I.BLK-PO108639.D	PIBLK-PO108639.D	Tetrachloro-m-xylene	1	20	20.5	103		60	140
		Decachlorobiphenyl	1	20	20.3	102		60	140
		Tetrachloro-m-xylene	2	20	21.5	108		60	140
		Decachlorobiphenyl	2	20	24.1	121		60	140
P5316-01	TT-304-IDWSO-20241217-1	Tetrachloro-m-xylene	1	20	17.2	86		44	130
		Decachlorobiphenyl	1	20	15.2	76		60	125
		Tetrachloro-m-xylene	2	20	18.1	90		44	130
		Decachlorobiphenyl	2	20	17.9	89		60	125
I.BLK-PO108653.D	PIBLK-PO108653.D	Tetrachloro-m-xylene	1	20	20.6	103		60	140
		Decachlorobiphenyl	1	20	20.4	102		60	140
		Tetrachloro-m-xylene	2	20	21.5	108		60	140
		Decachlorobiphenyl	2	20	24.0	120		60	140

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

DataFile : PO108632.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: OU4-VSL-07-121224MS												
P5306-01MS	AR1016	183.3	0	239	ug/kg	130				47	134	
	AR1260	183.3	0	242	ug/kg	132				53	140	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

DataFile : PO108633.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: OU4-VSL-07-121224MSD												
P5306-01MSD	AR1016	183.2	0	229	ug/kg	125		4		47	134	20
	AR1260	183.2	0	220	ug/kg	120		10		53	140	20



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A Datafile : PO108626.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB165703BS	AR1016	166.6	159	ug/kg	95				47	134	
	AR1260	166.6	165	ug/kg	99				53	140	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165703BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5316

SAS No.: P5316 SDG NO.: P5316

Lab Sample ID: PB165703BL

Lab File ID: PO108625.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 12/18/2024

Date Analyzed (1): 12/18/2024

Date Analyzed (2): 12/18/2024

Time Analyzed (1): 16:18

Time Analyzed (2): 16:18

Instrument ID (1): ECD_O

Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm)

GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165703BS	PB165703BS	PO108626.D	12/18/2024	12/18/2024
OU4-VSL-07-121224MS	P5306-01MS	PO108632.D	12/18/2024	12/18/2024
OU4-VSL-07-121224MSD	P5306-01MSD	PO108633.D	12/18/2024	12/18/2024
TT-304-IDWSO-20241217-1	P5316-01	PO108648.D	12/19/2024	12/19/2024

COMMENTS: _____



CALIBRATION SUMMARY

A
B
C
D
E
F
G

GC Column: ZB-MR1 ID: 0.32 (mm)

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene	3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81

A
B
C
D
E
F
G

A
B
C
D
E
F
G

GC Column: ZB-MR2 ID: 0.32 (mm)

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene	3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81

A

B

C

D

E

F

G

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Instrument ID: ECD_O

Calibration Date(s): 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PO108362.D</u>		CF 750 = <u>PO108363.D</u>			
CF 500 = <u>PO108364.D</u>		CF 250 = <u>PO108365.D</u>		CF 050 = <u>PO108366.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	291946997	297743768	310620664	319628964	322276700	4
Aroclor-1016-2	(2)	404548343	410201719	419086158	434302728	418957120	3
Aroclor-1016-3	(3)	276313882	283350735	295214768	305005424	303271420	4
Aroclor-1016-4	(4)	219460370	224028880	231955104	239248200	241192240	4
Aroclor-1016-5	(5)	230837381	238568924	249276722	260302648	279364560	8
Aroclor-1260-1	(1)	430087746	435401064	458150304	486996644	475087940	5
Aroclor-1260-2	(2)	526959551	526383048	555764632	590931960	578558580	5
Aroclor-1260-3	(3)	436965341	443883275	464184392	487588856	485769460	5
Aroclor-1260-4	(4)	403312630	406530869	426472890	444299896	446086500	5
Aroclor-1260-5	(5)	957132439	955503789	984649950	1000570432	961557080	2
Decachlorobiphenyl		7019975940	7102279760	7343195240	7645101200	7409935200	3
Tetrachloro-m-xylene		8754554380	8783699800	8926447760	8858353120	8177601800	3
Aroclor-1242-1	(1)	247125512	244458381	250566506	269052152	275422740	5
Aroclor-1242-2	(2)	337820704	332549081	339649972	356992284	358797680	3
Aroclor-1242-3	(3)	232389462	228960781	237971694	251417972	255318460	5
Aroclor-1242-4	(4)	184244210	179103536	186955244	196540012	206728220	6
Aroclor-1242-5	(5)	194011522	194743607	197474576	218140108	233983940	9
Decachlorobiphenyl		7151632520	7167100640	7259242160	7695082840	7616154000	4
Tetrachloro-m-xylene		8921368150	8691850413	8750108140	8842570400	8500038400	2
Aroclor-1248-1	(1)	180443308	190883876	199902132	213303984	216831760	8
Aroclor-1248-2	(2)	246301061	262357348	276907834	298582396	301778920	9
Aroclor-1248-3	(3)	307776547	326479597	342321706	362333244	366087160	7
Aroclor-1248-4	(4)	437732929	457834677	479474244	502800428	504795820	6
Aroclor-1248-5	(5)	308766537	323271540	339143702	357998428	363873980	7
Decachlorobiphenyl		7041971050	7340001867	7677772660	8334328560	8377267200	8
Tetrachloro-m-xylene		8742483090	9116744787	9342439560	9446963040	8577776400	4
Aroclor-1254-1	(1)	463230517	487037587	512031514	533861324	572040640	8
Aroclor-1254-2	(2)	407035308	429134731	452892530	476390932	511836900	9
Aroclor-1254-3	(3)	665923649	695083201	726473802	743208540	769953480	6
Aroclor-1254-4	(4)	404280854	421077525	444268156	458648100	465789400	6
Aroclor-1254-5	(5)	578915300	604639081	636092894	662542188	693421140	7
Decachlorobiphenyl		7146512650	7451889427	7845842200	8029803560	8289288000	6
Tetrachloro-m-xylene		8916956510	9205112240	9483653100	9313097600	8995829000	3
Aroclor-1268-1	(1)	1246089127	1198545457	1234114434	1276827264	1264498100	2

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1144198522	1088520925	1112229462	1147435628	1115923840	1121661675	2
Aroclor-1268-3	(3)	940965396	832346444	919340748	953365360	884986220	906200834	5
Aroclor-1268-4	(4)	385949324	370268229	384086808	404665236	389544200	386902759	3
Aroclor-1268-5	(5)	2890019913	2756282528	2773652360	2815336668	2624622080	2771982710	4
Decachlorobiphenyl		13116054520	12684928373	12985206200	13660251040	13550255000	13199339027	3
Tetrachloro-m-xylene		9439924600	8926085107	9366220020	9585299080	8679584000	9199422561	4

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P5316 **SAS No.:** P5316 **SDG NO.:** P5316

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 1000 = <u>PO108362.D</u>		CF 750 = <u>PO108363.D</u>			
CF 500 = <u>PO108364.D</u>		CF 250 = <u>PO108365.D</u>		CF 050 = <u>PO108366.D</u>			
COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	% RSD
Aroclor-1016-1	(1)	153895169	156728372	161981056	169073964	160692820	4
Aroclor-1016-2	(2)	216342839	218481491	224728354	232664856	218246400	3
Aroclor-1016-3	(3)	120117826	122069885	126984464	131660600	128335340	4
Aroclor-1016-4	(4)	96843518	100727947	106065160	112123848	108269060	6
Aroclor-1016-5	(5)	124135109	128707045	133919966	139473364	149819760	7
Aroclor-1260-1	(1)	220557751	224688929	233372252	247245708	244312440	5
Aroclor-1260-2	(2)	265498816	268435476	278836448	291165028	298902840	5
Aroclor-1260-3	(3)	247895049	250737920	258985508	271036448	289186460	6
Aroclor-1260-4	(4)	206205103	207830825	214807128	221847076	213061100	3
Aroclor-1260-5	(5)	485216265	483370987	491130416	498849136	461100640	3
Decachlorobiphenyl		3766442770	3798929547	3925647180	4081005080	3802565400	3
Tetrachloro-m-xylene		5125815400	5157614040	5227779180	5235220160	4600485000	5
Aroclor-1242-1	(1)	129471703	129065633	132661290	141454628	146186400	6
Aroclor-1242-2	(2)	181117644	180316532	183263990	191612732	190980420	3
Aroclor-1242-3	(3)	100948316	100485531	102947708	108518220	114012140	5
Aroclor-1242-4	(4)	100375229	100398940	104407974	111868140	119593080	8
Aroclor-1242-5	(5)	119243844	118999972	122020908	130935164	140800680	7
Decachlorobiphenyl		3837824030	3881889067	3932164520	4142632320	3981873600	3
Tetrachloro-m-xylene		5175637870	5056121747	5062590080	5077379040	4694060200	4
Aroclor-1248-1	(1)	96151235	101173276	106208356	111512520	110549280	6
Aroclor-1248-2	(2)	134456241	142517627	150226096	159660040	159777460	7
Aroclor-1248-3	(3)	143332101	151082947	159714030	169070604	168858280	7
Aroclor-1248-4	(4)	168393487	177299203	184813874	193701216	188544620	5
Aroclor-1248-5	(5)	162171392	168228800	176144562	182809080	188663420	6
Decachlorobiphenyl		3812249930	3973614533	4145380680	4445118560	4295672800	6
Tetrachloro-m-xylene		4965646150	5143987440	5236574340	5255843080	4633325600	5
Aroclor-1254-1	(1)	245816740	256457156	269229946	279215328	303441080	8
Aroclor-1254-2	(2)	215464605	225390397	238770420	248817564	271658880	9
Aroclor-1254-3	(3)	351887512	364509791	380441060	386791796	393925500	5
Aroclor-1254-4	(4)	202983022	209924784	220508360	226093392	228876240	5
Aroclor-1254-5	(5)	301571990	312619885	327015726	332817532	339773740	5
Decachlorobiphenyl		3941299730	4071714027	4258931580	4374402200	4331619600	4
Tetrachloro-m-xylene		5092418740	5228867107	5367266300	5227916200	4998387200	3
Aroclor-1268-1	(1)	656711077	629047555	645909990	662020976	635929760	2

CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	598855523	573599667	581583226	594062960	559533920	581527059	3
Aroclor-1268-3	(3)	514109640	473779721	502419092	515326152	488714860	498869893	4
Aroclor-1268-4	(4)	204541613	194882907	202546298	212150808	201074520	203039229	3
Aroclor-1268-5	(5)	1554458685	1488724905	1492118486	1500575756	1388253260	1484826218	4
Decachlorobiphenyl		7216327300	6964723040	7142803680	7406390760	7194775600	7185004076	2
Tetrachloro-m-xylene		5353757740	5060175947	5259788400	5326606440	4764065600	5152878825	5

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Instrument ID: ECD_O Date(s) Analyzed: 12/06/2024 12/06/2024

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.93	3.83	4.03	113144000
		2	4.01	3.91	4.11	86720400
		3	4.09	3.99	4.19	254206000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.09	3.99	4.19	204770000
		2	4.59	4.49	4.69	114353000
		3	4.83	4.73	4.93	197477000
		4	5.01	4.91	5.11	108380000
		5	5.05	4.95	5.15	78329400
Aroclor-1262	500	1	6.87	6.77	6.97	658396000
		2	7.37	7.27	7.47	1111710000
		3	7.65	7.55	7.75	436856000
		4	7.72	7.62	7.82	806298000
		5	8.22	8.12	8.32	354936000

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Instrument ID: ECD_O Date(s) Analyzed: 12/06/2024 12/06/2024

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW		CALIBRATION FACTOR
				FROM	TO	
Aroclor-1221	500	1	3.92	3.82	4.02	62122600
		2	4.01	3.91	4.11	47445000
		3	4.08	3.98	4.18	140587000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.08	3.98	4.18	112052000
		2	4.82	4.72	4.92	105754000
		3	4.99	4.89	5.09	60347200
		4	5.08	4.98	5.18	55556400
		5	5.25	5.15	5.35	57576200
Aroclor-1262	500	1	6.84	6.74	6.94	337974000
		2	7.34	7.24	7.44	571854000
		3	7.62	7.52	7.72	224428000
		4	7.69	7.59	7.79	409588000
		5	8.18	8.08	8.28	184828000

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Continuing Calib Date: 12/18/2024 Initial Calibration Date(s): 12/06/2024 12/06/2024

Continuing Calib Time: 14:46 Initial Calibration Time(s): 14:19 22:34

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.78	8.79	8.69	8.89	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Continuing Calib Date: 12/18/2024 Initial Calibration Date(s): 12/06/2024 12/06/2024

Continuing Calib Time: 14:46 Initial Calibration Time(s): 14:19 22:34

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.28	6.29	6.19	6.39	0.01
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.70	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.72	8.74	8.64	8.84	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 12/06/2024 12/06/2024

Client Sample No.: CCAL01 Date Analyzed: 12/18/2024

Lab Sample No.: AR1660CCC500 Data File : PO108620.D Time Analyzed: 14:46

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.802	4.709	4.909	474.580	500.000	-5.1
Aroclor-1016-2	4.822	4.729	4.929	475.440	500.000	-4.9
Aroclor-1016-3	4.878	4.785	4.985	475.580	500.000	-4.9
Aroclor-1016-4	4.999	4.907	5.107	474.750	500.000	-5.1
Aroclor-1016-5	5.257	5.165	5.365	473.130	500.000	-5.4
Aroclor-1260-1	6.300	6.210	6.410	455.930	500.000	-8.8
Aroclor-1260-2	6.489	6.398	6.598	462.940	500.000	-7.4
Aroclor-1260-3	6.859	6.769	6.969	466.590	500.000	-6.7
Aroclor-1260-4	7.119	7.029	7.229	461.520	500.000	-7.7
Aroclor-1260-5	7.360	7.270	7.470	462.190	500.000	-7.6
Decachlorobiphenyl	8.775	8.691	8.891	44.110	50.000	-11.8
Tetrachloro-m-xylene	3.706	3.610	3.810	48.140	50.000	-3.7

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/06/2024 12/06/2024

Client Sample No.: CCAL01 Date Analyzed: 12/18/2024

Lab Sample No.: AR1660CCC500 Data File : PO108620.D Time Analyzed: 14:46

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.790	4.698	4.898	530.530	500.000	6.1
Aroclor-1016-2	4.810	4.718	4.918	527.700	500.000	5.5
Aroclor-1016-3	4.986	4.894	5.094	521.780	500.000	4.4
Aroclor-1016-4	5.027	4.935	5.135	514.400	500.000	2.9
Aroclor-1016-5	5.241	5.150	5.350	524.590	500.000	4.9
Aroclor-1260-1	6.276	6.186	6.386	524.770	500.000	5.0
Aroclor-1260-2	6.462	6.373	6.573	525.150	500.000	5.0
Aroclor-1260-3	6.616	6.527	6.727	523.700	500.000	4.7
Aroclor-1260-4	7.089	7.000	7.200	541.420	500.000	8.3
Aroclor-1260-5	7.328	7.239	7.439	546.360	500.000	9.3
Decachlorobiphenyl	8.724	8.641	8.841	50.970	50.000	1.9
Tetrachloro-m-xylene	3.703	3.608	3.808	52.590	50.000	5.2

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Continuing Calib Date: 12/18/2024 Initial Calibration Date(s): 12/06/2024 12/06/2024

Continuing Calib Time: 20:04 Initial Calibration Time(s): 14:19 22:34

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.78	8.79	8.69	8.89	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Continuing Calib Date: 12/18/2024 Initial Calibration Date(s): 12/06/2024 12/06/2024

Continuing Calib Time: 20:04 Initial Calibration Time(s): 14:19 22:34

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.28	6.29	6.19	6.39	0.01
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.70	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.73	8.74	8.64	8.84	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 12/06/2024 12/06/2024

Client Sample No.: CCAL02 Date Analyzed: 12/18/2024

Lab Sample No.: AR1660CCC500 Data File : PO108635.D Time Analyzed: 20:04

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.803	4.709	4.909	498.640	500.000	-0.3
Aroclor-1016-2	4.823	4.729	4.929	505.570	500.000	1.1
Aroclor-1016-3	4.879	4.785	4.985	503.330	500.000	0.7
Aroclor-1016-4	5.000	4.907	5.107	503.810	500.000	0.8
Aroclor-1016-5	5.258	5.165	5.365	505.700	500.000	1.1
Aroclor-1260-1	6.301	6.210	6.410	488.870	500.000	-2.2
Aroclor-1260-2	6.490	6.398	6.598	489.350	500.000	-2.1
Aroclor-1260-3	6.859	6.769	6.969	496.430	500.000	-0.7
Aroclor-1260-4	7.119	7.029	7.229	491.890	500.000	-1.6
Aroclor-1260-5	7.360	7.270	7.470	495.310	500.000	-0.9
Decachlorobiphenyl	8.775	8.691	8.891	46.280	50.000	-7.4
Tetrachloro-m-xylene	3.706	3.610	3.810	50.760	50.000	1.5

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/06/2024 12/06/2024

Client Sample No.: CCAL02 Date Analyzed: 12/18/2024

Lab Sample No.: AR1660CCC500 Data File : PO108635.D Time Analyzed: 20:04

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.791	4.698	4.898	552.620	500.000	10.5
Aroclor-1016-2	4.811	4.718	4.918	552.950	500.000	10.6
Aroclor-1016-3	4.986	4.894	5.094	541.900	500.000	8.4
Aroclor-1016-4	5.028	4.935	5.135	532.940	500.000	6.6
Aroclor-1016-5	5.242	5.150	5.350	555.680	500.000	11.1
Aroclor-1260-1	6.277	6.186	6.386	553.460	500.000	10.7
Aroclor-1260-2	6.463	6.373	6.573	552.480	500.000	10.5
Aroclor-1260-3	6.617	6.527	6.727	553.540	500.000	10.7
Aroclor-1260-4	7.089	7.000	7.200	574.670	500.000	14.9
Aroclor-1260-5	7.329	7.239	7.439	580.680	500.000	16.1
Decachlorobiphenyl	8.725	8.641	8.841	54.120	50.000	8.2
Tetrachloro-m-xylene	3.704	3.608	3.808	55.170	50.000	10.3

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Continuing Calib Date: 12/19/2024 Initial Calibration Date(s): 12/06/2024 12/06/2024

Continuing Calib Time: 01:03 Initial Calibration Time(s): 14:19 22:34

GC Column: ZB-MR1 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.77	8.79	8.69	8.89	0.02

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Continuing Calib Date: 12/19/2024 Initial Calibration Date(s): 12/06/2024 12/06/2024

Continuing Calib Time: 01:03 Initial Calibration Time(s): 14:19 22:34

GC Column: ZB-MR2 ID: 0.32 (mm)

COMPOUND		CCAL RT	AVG RT	RT WINDOW		DIFF RT
				FROM	TO	
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.28	6.29	6.19	6.39	0.01
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.70	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.73	8.74	8.64	8.84	0.01

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 12/06/2024 12/06/2024

Client Sample No.: CCAL03 Date Analyzed: 12/19/2024

Lab Sample No.: AR1660CCC500 Data File : PO108649.D Time Analyzed: 01:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.803	4.709	4.909	506.530	500.000	1.3
Aroclor-1016-2	4.822	4.729	4.929	505.100	500.000	1.0
Aroclor-1016-3	4.878	4.785	4.985	509.000	500.000	1.8
Aroclor-1016-4	4.999	4.907	5.107	508.070	500.000	1.6
Aroclor-1016-5	5.257	5.165	5.365	507.310	500.000	1.5
Aroclor-1260-1	6.300	6.210	6.410	493.950	500.000	-1.2
Aroclor-1260-2	6.489	6.398	6.598	493.160	500.000	-1.4
Aroclor-1260-3	6.858	6.769	6.969	500.940	500.000	0.2
Aroclor-1260-4	7.118	7.029	7.229	498.360	500.000	-0.3
Aroclor-1260-5	7.359	7.270	7.470	503.010	500.000	0.6
Decachlorobiphenyl	8.773	8.691	8.891	46.710	50.000	-6.6
Tetrachloro-m-xylene	3.706	3.610	3.810	51.090	50.000	2.2

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 12/06/2024 12/06/2024

Client Sample No.: CCAL03 Date Analyzed: 12/19/2024

Lab Sample No.: AR1660CCC500 Data File : PO108649.D Time Analyzed: 01:03

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
Aroclor-1016-1	4.791	4.698	4.898	562.100	500.000	12.4
Aroclor-1016-2	4.810	4.718	4.918	562.390	500.000	12.5
Aroclor-1016-3	4.986	4.894	5.094	555.600	500.000	11.1
Aroclor-1016-4	5.028	4.935	5.135	547.020	500.000	9.4
Aroclor-1016-5	5.241	5.150	5.350	566.660	500.000	13.3
Aroclor-1260-1	6.276	6.186	6.386	562.810	500.000	12.6
Aroclor-1260-2	6.462	6.373	6.573	562.140	500.000	12.4
Aroclor-1260-3	6.617	6.527	6.727	563.250	500.000	12.7
Aroclor-1260-4	7.089	7.000	7.200	582.400	500.000	16.5
Aroclor-1260-5	7.328	7.239	7.439	587.540	500.000	17.5
Decachlorobiphenyl	8.725	8.641	8.841	55.060	50.000	10.1
Tetrachloro-m-xylene	3.704	3.608	3.808	55.980	50.000	12.0

Analytical Sequence

Client: Tetra Tech NUS, Inc.

SDG No.: P5316

Project: CTO WE13

Instrument ID: ECD_O

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 12/06/2024 12/06/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	12/06/2024	14:01	PO108361.D	8.79	3.71
AR1660ICC1000	AR1660ICC1000	12/06/2024	14:19	PO108362.D	8.79	3.71
AR1660ICC750	AR1660ICC750	12/06/2024	14:38	PO108363.D	8.79	3.71
AR1660ICC500	AR1660ICC500	12/06/2024	14:56	PO108364.D	8.79	3.71
AR1660ICC250	AR1660ICC250	12/06/2024	15:14	PO108365.D	8.79	3.71
AR1660ICC050	AR1660ICC050	12/06/2024	15:33	PO108366.D	8.79	3.71
AR1221ICC500	AR1221ICC500	12/06/2024	15:51	PO108367.D	8.79	3.71
AR1232ICC500	AR1232ICC500	12/06/2024	16:09	PO108368.D	8.79	3.71
AR1242ICC1000	AR1242ICC1000	12/06/2024	16:28	PO108369.D	8.79	3.71
AR1242ICC750	AR1242ICC750	12/06/2024	16:46	PO108370.D	8.79	3.71
AR1242ICC500	AR1242ICC500	12/06/2024	17:04	PO108371.D	8.79	3.71
AR1242ICC250	AR1242ICC250	12/06/2024	17:23	PO108372.D	8.79	3.71
AR1242ICC050	AR1242ICC050	12/06/2024	17:41	PO108373.D	8.79	3.71
AR1248ICC1000	AR1248ICC1000	12/06/2024	17:59	PO108374.D	8.79	3.71
AR1248ICC750	AR1248ICC750	12/06/2024	18:18	PO108375.D	8.79	3.71
AR1248ICC500	AR1248ICC500	12/06/2024	18:36	PO108376.D	8.79	3.71
AR1248ICC250	AR1248ICC250	12/06/2024	18:54	PO108377.D	8.79	3.71
AR1248ICC050	AR1248ICC050	12/06/2024	19:13	PO108378.D	8.79	3.71
AR1254ICC1000	AR1254ICC1000	12/06/2024	19:31	PO108379.D	8.79	3.71
AR1254ICC750	AR1254ICC750	12/06/2024	19:49	PO108380.D	8.79	3.71
AR1254ICC500	AR1254ICC500	12/06/2024	20:08	PO108381.D	8.79	3.71
AR1254ICC250	AR1254ICC250	12/06/2024	20:26	PO108382.D	8.79	3.71
AR1254ICC050	AR1254ICC050	12/06/2024	20:44	PO108383.D	8.79	3.71
AR1262ICC500	AR1262ICC500	12/06/2024	21:03	PO108384.D	8.79	3.71
AR1268ICC1000	AR1268ICC1000	12/06/2024	21:21	PO108385.D	8.79	3.71
AR1268ICC750	AR1268ICC750	12/06/2024	21:39	PO108386.D	8.79	3.71
AR1268ICC500	AR1268ICC500	12/06/2024	21:58	PO108387.D	8.79	3.71
AR1268ICC250	AR1268ICC250	12/06/2024	22:16	PO108388.D	8.79	3.71
AR1268ICC050	AR1268ICC050	12/06/2024	22:34	PO108389.D	8.79	3.71
AR1660CCC500	AR1660CCC500	12/18/2024	14:46	PO108620.D	8.78	3.71
IBLK	IBLK	12/18/2024	15:59	PO108624.D	8.78	3.71
PB165703BL	PB165703BL	12/18/2024	16:18	PO108625.D	8.78	3.71
PB165703BS	PB165703BS	12/18/2024	16:36	PO108626.D	8.78	3.71
OU4-VSL-07-121224MS	P5306-01MS	12/18/2024	18:26	PO108632.D	8.78	3.71
OU4-VSL-07-121224MSD	P5306-01MSD	12/18/2024	18:44	PO108633.D	8.78	3.71
AR1660CCC500	AR1660CCC500	12/18/2024	20:04	PO108635.D	8.78	3.71
IBLK	IBLK	12/18/2024	21:17	PO108639.D	8.78	3.71
TT-304-IDWSO-20241217-1	P5316-01	12/19/2024	00:02	PO108648.D	8.78	3.71
AR1660CCC500	AR1660CCC500	12/19/2024	01:03	PO108649.D	8.77	3.71
IBLK	IBLK	12/19/2024	02:16	PO108653.D	8.77	3.71

Analytical Sequence

Client: Tetra Tech NUS, Inc.

SDG No.: P5316

Project: CTO WE13

Instrument ID: ECD_O

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 12/06/2024 12/06/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	12/06/2024	14:01	PO108361.D	8.74	3.71
AR1660ICC1000	AR1660ICC1000	12/06/2024	14:19	PO108362.D	8.74	3.71
AR1660ICC750	AR1660ICC750	12/06/2024	14:38	PO108363.D	8.74	3.71
AR1660ICC500	AR1660ICC500	12/06/2024	14:56	PO108364.D	8.74	3.71
AR1660ICC250	AR1660ICC250	12/06/2024	15:14	PO108365.D	8.74	3.71
AR1660ICC050	AR1660ICC050	12/06/2024	15:33	PO108366.D	8.74	3.71
AR1221ICC500	AR1221ICC500	12/06/2024	15:51	PO108367.D	8.74	3.71
AR1232ICC500	AR1232ICC500	12/06/2024	16:09	PO108368.D	8.74	3.71
AR1242ICC1000	AR1242ICC1000	12/06/2024	16:28	PO108369.D	8.74	3.71
AR1242ICC750	AR1242ICC750	12/06/2024	16:46	PO108370.D	8.74	3.71
AR1242ICC500	AR1242ICC500	12/06/2024	17:04	PO108371.D	8.74	3.71
AR1242ICC250	AR1242ICC250	12/06/2024	17:23	PO108372.D	8.74	3.71
AR1242ICC050	AR1242ICC050	12/06/2024	17:41	PO108373.D	8.74	3.71
AR1248ICC1000	AR1248ICC1000	12/06/2024	17:59	PO108374.D	8.74	3.71
AR1248ICC750	AR1248ICC750	12/06/2024	18:18	PO108375.D	8.74	3.71
AR1248ICC500	AR1248ICC500	12/06/2024	18:36	PO108376.D	8.74	3.71
AR1248ICC250	AR1248ICC250	12/06/2024	18:54	PO108377.D	8.74	3.71
AR1248ICC050	AR1248ICC050	12/06/2024	19:13	PO108378.D	8.74	3.71
AR1254ICC1000	AR1254ICC1000	12/06/2024	19:31	PO108379.D	8.74	3.71
AR1254ICC750	AR1254ICC750	12/06/2024	19:49	PO108380.D	8.74	3.71
AR1254ICC500	AR1254ICC500	12/06/2024	20:08	PO108381.D	8.74	3.71
AR1254ICC250	AR1254ICC250	12/06/2024	20:26	PO108382.D	8.74	3.71
AR1254ICC050	AR1254ICC050	12/06/2024	20:44	PO108383.D	8.74	3.71
AR1262ICC500	AR1262ICC500	12/06/2024	21:03	PO108384.D	8.74	3.71
AR1268ICC1000	AR1268ICC1000	12/06/2024	21:21	PO108385.D	8.74	3.71
AR1268ICC750	AR1268ICC750	12/06/2024	21:39	PO108386.D	8.74	3.71
AR1268ICC500	AR1268ICC500	12/06/2024	21:58	PO108387.D	8.74	3.71
AR1268ICC250	AR1268ICC250	12/06/2024	22:16	PO108388.D	8.74	3.71
AR1268ICC050	AR1268ICC050	12/06/2024	22:34	PO108389.D	8.74	3.71
AR1660CCC500	AR1660CCC500	12/18/2024	14:46	PO108620.D	8.72	3.70
IBLK	IBLK	12/18/2024	15:59	PO108624.D	8.73	3.70
PB165703BL	PB165703BL	12/18/2024	16:18	PO108625.D	8.73	3.70
PB165703BS	PB165703BS	12/18/2024	16:36	PO108626.D	8.73	3.70
OU4-VSL-07-121224MS	P5306-01MS	12/18/2024	18:26	PO108632.D	8.73	3.70
OU4-VSL-07-121224MSD	P5306-01MSD	12/18/2024	18:44	PO108633.D	8.73	3.70
AR1660CCC500	AR1660CCC500	12/18/2024	20:04	PO108635.D	8.73	3.70
IBLK	IBLK	12/18/2024	21:17	PO108639.D	8.73	3.70
TT-304-IDWSO-20241217-1	P5316-01	12/19/2024	00:02	PO108648.D	8.72	3.70
AR1660CCC500	AR1660CCC500	12/19/2024	01:03	PO108649.D	8.73	3.70
IBLK	IBLK	12/19/2024	02:16	PO108653.D	8.73	3.70



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	CTO WE13		Date Received:		
Client Sample ID:	PB165703BL		SDG No.:	P5316	
Lab Sample ID:	PB165703BL		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.03	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108625.D	1	12/18/24 08:10	12/18/24 16:18	PB165703

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	8.30	U	3.40	8.30	17.0	ug/kg
11104-28-2	Aroclor-1221	13.0	U	6.40	13.0	17.0	ug/kg
11141-16-5	Aroclor-1232	13.0	U	3.40	13.0	17.0	ug/kg
53469-21-9	Aroclor-1242	8.30	U	3.40	8.30	17.0	ug/kg
12672-29-6	Aroclor-1248	13.0	U	7.90	13.0	17.0	ug/kg
11097-69-1	Aroclor-1254	13.0	U	2.70	13.0	17.0	ug/kg
37324-23-5	Aroclor-1262	8.30	U	4.60	8.30	17.0	ug/kg
11100-14-4	Aroclor-1268	13.0	U	3.40	13.0	17.0	ug/kg
11096-82-5	Aroclor-1260	8.30	U	2.90	8.30	17.0	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.5		44 - 130		98%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.0		60 - 125		110%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/06/24	
Project:	CTO WE13		Date Received:	12/06/24	
Client Sample ID:	PIBLK-PO108361.D		SDG No.:	P5316	
Lab Sample ID:	I.BLK-PO108361.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108361.D	1		12/06/24	PO120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.6		60 - 140		108%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.6		60 - 140		118%	SPK: 20

Comments:

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B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/18/24	
Client Sample ID:	PIBLK-PO108624.D		SDG No.:	P5316	
Lab Sample ID:	I.BLK-PO108624.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108624.D	1		12/18/24	PO121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.4		60 - 140		102%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		60 - 140		101%	SPK: 20

Comments:

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/18/24	
Client Sample ID:	PIBLK-PO108639.D		SDG No.:	P5316	
Lab Sample ID:	I.BLK-PO108639.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108639.D	1		12/18/24	PO121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.5		60 - 140		103%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.3		60 - 140		102%	SPK: 20

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/19/24	
Project:	CTO WE13		Date Received:	12/19/24	
Client Sample ID:	PIBLK-PO108653.D		SDG No.:	P5316	
Lab Sample ID:	I.BLK-PO108653.D		Matrix:	WATER	
Analytical Method:	SW8082A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	5030				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108653.D	1		12/19/24	PO121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.6		60 - 140		103%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140		102%	SPK: 20

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	CTO WE13		Date Received:		
Client Sample ID:	PB165703BS		SDG No.:	P5316	
Lab Sample ID:	PB165703BS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	100	Decanted:
Sample Wt/Vol:	30.02	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108626.D	1	12/18/24 08:10	12/18/24 16:36	PB165703

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	159		3.40	8.30	17.0	ug/kg
11104-28-2	Aroclor-1221	13.0	U	6.40	13.0	17.0	ug/kg
11141-16-5	Aroclor-1232	13.0	U	3.40	13.0	17.0	ug/kg
53469-21-9	Aroclor-1242	8.30	U	3.40	8.30	17.0	ug/kg
12672-29-6	Aroclor-1248	13.0	U	7.90	13.0	17.0	ug/kg
11097-69-1	Aroclor-1254	13.0	U	2.70	13.0	17.0	ug/kg
37324-23-5	Aroclor-1262	8.30	U	4.60	8.30	17.0	ug/kg
11100-14-4	Aroclor-1268	13.0	U	3.40	13.0	17.0	ug/kg
11096-82-5	Aroclor-1260	165		2.90	8.30	17.0	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.4		44 - 130		92%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.3		60 - 125		112%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/12/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	OU4-VSL-07-121224MS		SDG No.:	P5316	
Lab Sample ID:	P5306-01MS		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	90.8	Decanted:
Sample Wt/Vol:	30.04	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108632.D	1	12/18/24 08:10	12/18/24 18:26	PB165703

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	239		3.70	9.10	18.7	ug/kg
11104-28-2	Aroclor-1221	14.3	U	7.10	14.3	18.7	ug/kg
11141-16-5	Aroclor-1232	14.3	U	3.70	14.3	18.7	ug/kg
53469-21-9	Aroclor-1242	9.10	U	3.70	9.10	18.7	ug/kg
12672-29-6	Aroclor-1248	14.3	U	8.70	14.3	18.7	ug/kg
11097-69-1	Aroclor-1254	14.3	U	3.00	14.3	18.7	ug/kg
37324-23-5	Aroclor-1262	9.10	U	5.00	9.10	18.7	ug/kg
11100-14-4	Aroclor-1268	14.3	U	3.80	14.3	18.7	ug/kg
11096-82-5	Aroclor-1260	242		3.20	9.10	18.7	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	23.1		44 - 130		115%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.4	*	60 - 125		137%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/12/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	OU4-VSL-07-121224MSD		SDG No.:	P5316	
Lab Sample ID:	P5306-01MSD		Matrix:	SOIL	
Analytical Method:	SW8082A		% Solid:	90.8	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PCB Group1	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3541B				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108633.D	1	12/18/24 08:10	12/18/24 18:44	PB165703

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	229		3.70	9.10	18.7	ug/kg
11104-28-2	Aroclor-1221	14.3	U	7.00	14.3	18.7	ug/kg
11141-16-5	Aroclor-1232	14.3	U	3.70	14.3	18.7	ug/kg
53469-21-9	Aroclor-1242	9.10	U	3.70	9.10	18.7	ug/kg
12672-29-6	Aroclor-1248	14.3	U	8.70	14.3	18.7	ug/kg
11097-69-1	Aroclor-1254	14.3	U	3.00	14.3	18.7	ug/kg
37324-23-5	Aroclor-1262	9.10	U	5.00	9.10	18.7	ug/kg
11100-14-4	Aroclor-1268	14.3	U	3.80	14.3	18.7	ug/kg
11096-82-5	Aroclor-1260	220		3.20	9.10	18.7	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	23.3		44 - 130		117%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.9		60 - 125		119%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

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