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

LAB CHRONICLE

OrderID:	Q2008	**OrderDate:**	5/9/2025 3:21:23 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger Site Princeton NJ 2025
Contact:	Mary I. Murphy	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2008-01	**IDW-AQ-DRUM-633-05092025**	**Water**			**05/09/25**			**05/09/25**
			VOC-TCLVOA-10	8260D			05/12/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**IDW-AQ-DRUM-633-05092025**								
Q2008-01	IDW-AQ-DRUM-6	Water	Chloromethane		880		32.0	500	ug/L
Q2008-01	IDW-AQ-DRUM-6	Water	Acetone		20100		150	2500	ug/L
Q2008-01	IDW-AQ-DRUM-6	Water	Methylene Chloride		110	J	28.0	500	ug/L
			Total Voc :		21100				
Q2008-01	IDW-AQ-DRUM-6	Water	Sulfur dioxide	*	510	J	0	0	ug/L
			Total Tics :		510				
			Total Concentration:		21600				

SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	05/09/25
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	05/09/25
Client Sample ID:	IDW-AQ-DRUM-633-05092025	SDG No.:	Q2008
Lab Sample ID:	Q2008-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046130.D	100		05/12/25 12:03	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	22.0	U	22.0	500	ug/L
74-87-3	Chloromethane	880		32.0	500	ug/L
75-01-4	Vinyl Chloride	26.0	U	26.0	500	ug/L
74-83-9	Bromomethane	140	U	140	500	ug/L
75-00-3	Chloroethane	47.0	U	47.0	500	ug/L
75-69-4	Trichlorofluoromethane	33.0	U	33.0	500	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	25.0	U	25.0	500	ug/L
75-35-4	1,1-Dichloroethene	23.0	U	23.0	500	ug/L
67-64-1	Acetone	20100		150	2500	ug/L
75-15-0	Carbon Disulfide	21.0	U	21.0	500	ug/L
1634-04-4	Methyl tert-butyl Ether	16.0	U	16.0	500	ug/L
79-20-9	Methyl Acetate	27.0	U	27.0	500	ug/L
75-09-2	Methylene Chloride	110	J	28.0	500	ug/L
156-60-5	trans-1,2-Dichloroethene	23.0	U	23.0	500	ug/L
75-34-3	1,1-Dichloroethane	23.0	U	23.0	500	ug/L
110-82-7	Cyclohexane	150	U	150	500	ug/L
78-93-3	2-Butanone	98.0	U	98.0	2500	ug/L
56-23-5	Carbon Tetrachloride	25.0	U	25.0	500	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0	U	19.0	500	ug/L
74-97-5	Bromochloromethane	22.0	U	22.0	500	ug/L
67-66-3	Chloroform	25.0	U	25.0	500	ug/L
71-55-6	1,1,1-Trichloroethane	20.0	U	20.0	500	ug/L
108-87-2	Methylcyclohexane	16.0	U	16.0	500	ug/L
71-43-2	Benzene	15.0	U	15.0	500	ug/L
107-06-2	1,2-Dichloroethane	22.0	U	22.0	500	ug/L
79-01-6	Trichloroethene	9.30	U	9.30	500	ug/L
78-87-5	1,2-Dichloropropane	20.0	U	20.0	500	ug/L
75-27-4	Bromodichloromethane	22.0	U	22.0	500	ug/L
108-10-1	4-Methyl-2-Pentanone	68.0	U	68.0	2500	ug/L
108-88-3	Toluene	14.0	U	14.0	500	ug/L

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	05/09/25
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	05/09/25
Client Sample ID:	IDW-AQ-DRUM-633-05092025	SDG No.:	Q2008
Lab Sample ID:	Q2008-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046130.D	100		05/12/25 12:03	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	17.0	U	17.0	500	ug/L
10061-01-5	cis-1,3-Dichloropropene	16.0	U	16.0	500	ug/L
79-00-5	1,1,2-Trichloroethane	21.0	U	21.0	500	ug/L
591-78-6	2-Hexanone	89.0	U	89.0	2500	ug/L
124-48-1	Dibromochloromethane	18.0	U	18.0	500	ug/L
106-93-4	1,2-Dibromoethane	15.0	U	15.0	500	ug/L
127-18-4	Tetrachloroethene	23.0	U	23.0	500	ug/L
108-90-7	Chlorobenzene	12.0	U	12.0	500	ug/L
100-41-4	Ethyl Benzene	13.0	U	13.0	500	ug/L
179601-23-1	m/p-Xylenes	24.0	U	24.0	1000	ug/L
95-47-6	o-Xylene	12.0	U	12.0	500	ug/L
100-42-5	Styrene	15.0	U	15.0	500	ug/L
75-25-2	Bromoform	19.0	U	19.0	500	ug/L
98-82-8	Isopropylbenzene	12.0	U	12.0	500	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	26.0	U	26.0	500	ug/L
541-73-1	1,3-Dichlorobenzene	16.0	U	16.0	500	ug/L
106-46-7	1,4-Dichlorobenzene	19.0	U	19.0	500	ug/L
95-50-1	1,2-Dichlorobenzene	16.0	U	16.0	500	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	53.0	U	53.0	500	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.0	U	20.0	500	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.0	U	20.0	500	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	68800	5.544			
540-36-3	1,4-Difluorobenzene	139000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	57100	12.018			
TENTATIVE IDENTIFIED COMPOUNDS						

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	05/09/25
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	05/09/25
Client Sample ID:	IDW-AQ-DRUM-633-05092025	SDG No.:	Q2008
Lab Sample ID:	Q2008-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046130.D	100		05/12/25 12:03	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
007446-09-5	Sulfur dioxide	510	J		1.24	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2008-01	IDW-AQ-DRUM-633-05092025	1,2-Dichloroethane-d4	50	53.2	106	70 (74)	130 (125)
		Dibromofluoromethane	50	50.1	100	70 (75)	130 (124)
		Toluene-d8	50	48.8	98	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.3	103	70 (77)	130 (121)
VX0512WBL01	VX0512WBL01	1,2-Dichloroethane-d4	50	54.2	108	70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102	70 (75)	130 (124)
		Toluene-d8	50	50.1	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.6	99	70 (77)	130 (121)
VX0512WBS01	VX0512WBS01	1,2-Dichloroethane-d4	50	55.1	110	70 (74)	130 (125)
		Dibromofluoromethane	50	56.2	112	70 (75)	130 (124)
		Toluene-d8	50	54.8	110	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.9	110	70 (77)	130 (121)
VX0512WBSD0	VX0512WBSD01	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	55.9	112	70 (75)	130 (124)
		Toluene-d8	50	55.4	111	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.4	111	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VX046128.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0512WBS01	Dichlorodifluoromethane	20	21.8	ug/L	109			40 (69)	160 (116)	
	Chloromethane	20	20.3	ug/L	102			40 (65)	160 (116)	
	Vinyl chloride	20	19.8	ug/L	99			70 (65)	130 (117)	
	Bromomethane	20	19.2	ug/L	96			40 (58)	160 (125)	
	Chloroethane	20	20.7	ug/L	104			40 (56)	160 (128)	
	Trichlorofluoromethane	20	21.8	ug/L	109			40 (73)	160 (115)	
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/L	106			70 (80)	130 (112)	
	1,1-Dichloroethene	20	20.4	ug/L	102			70 (74)	130 (110)	
	Acetone	100	100	ug/L	100			40 (60)	160 (125)	
	Carbon disulfide	20	18.7	ug/L	94			40 (64)	160 (112)	
	Methyl tert-butyl Ether	20	20.9	ug/L	104			70 (78)	130 (114)	
	Methyl Acetate	20	21.6	ug/L	108			70 (67)	130 (125)	
	Methylene Chloride	20	19.4	ug/L	97			70 (72)	130 (114)	
	trans-1,2-Dichloroethene	20	20.2	ug/L	101			70 (75)	130 (108)	
	1,1-Dichloroethane	20	21.1	ug/L	106			70 (78)	130 (112)	
	Cyclohexane	20	20.3	ug/L	102			70 (75)	130 (110)	
	2-Butanone	100	100	ug/L	100			40 (65)	160 (122)	
	Carbon Tetrachloride	20	21.2	ug/L	106			70 (77)	130 (113)	
	cis-1,2-Dichloroethene	20	20.8	ug/L	104			70 (77)	130 (110)	
	Bromochloromethane	20	23.2	ug/L	116			70 (70)	130 (124)	
	Chloroform	20	21.8	ug/L	109			70 (79)	130 (113)	
	1,1,1-Trichloroethane	20	21.0	ug/L	105			70 (80)	130 (108)	
	Methylcyclohexane	20	20.3	ug/L	102			70 (72)	130 (115)	
	Benzene	20	21.2	ug/L	106			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.3	ug/L	106			70 (80)	130 (115)	
	Trichloroethene	20	21.0	ug/L	105			70 (77)	130 (113)	
	1,2-Dichloropropane	20	21.7	ug/L	109			70 (83)	130 (111)	
	Bromodichloromethane	20	21.6	ug/L	108			70 (83)	130 (110)	
	4-Methyl-2-Pentanone	100	100	ug/L	100			40 (74)	160 (118)	
	Toluene	20	21.1	ug/L	106			70 (82)	130 (110)	
	t-1,3-Dichloropropene	20	20.0	ug/L	100			70 (79)	130 (110)	
	cis-1,3-Dichloropropene	20	20.6	ug/L	103			70 (82)	130 (110)	
	1,1,2-Trichloroethane	20	21.4	ug/L	107			70 (83)	130 (112)	
	2-Hexanone	100	110	ug/L	110			40 (73)	160 (117)	
	Dibromochloromethane	20	21.1	ug/L	106			70 (82)	130 (110)	
	1,2-Dibromoethane	20	21.3	ug/L	106			70 (81)	130 (110)	
	Tetrachloroethene	20	19.8	ug/L	99			70 (67)	130 (123)	
	Chlorobenzene	20	20.6	ug/L	103			70 (82)	130 (109)	
	Ethyl Benzene	20	21.0	ug/L	105			70 (83)	130 (109)	
	m/p-Xylenes	40	41.9	ug/L	105			70 (82)	130 (110)	
	o-Xylene	20	21.3	ug/L	106			70 (83)	130 (109)	
	Styrene	20	21.4	ug/L	107			70 (80)	130 (111)	
	Bromoform	20	20.1	ug/L	101			70 (79)	130 (109)	
	Isopropylbenzene	20	21.7	ug/L	109			70 (83)	130 (112)	
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106			70 (76)	130 (118)	
	1,3-Dichlorobenzene	20	21.3	ug/L	106			70 (82)	130 (108)	
	1,4-Dichlorobenzene	20	20.7	ug/L	104			70 (82)	130 (107)	
	1,2-Dichlorobenzene	20	21.3	ug/L	106			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VX046128.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0512WBS01	1,2-Dibromo-3-Chloropropane	20	20.8	ug/L	104			40 (68)	160 (112)	
	1,2,4-Trichlorobenzene	20	20.1	ug/L	101			70 (75)	130 (113)	
	1,2,3-Trichlorobenzene	20	20.5	ug/L	103			70 (76)	130 (114)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VX046129.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0512WBSD01	Dichlorodifluoromethane	20	20.9	ug/L	104	5		40 (69)	160 (116)	20 (20)
	Chloromethane	20	19.6	ug/L	98	4		40 (65)	160 (116)	20 (20)
	Vinyl chloride	20	19.5	ug/L	98	1		70 (65)	130 (117)	20 (20)
	Bromomethane	20	18.3	ug/L	92	4		40 (58)	160 (125)	20 (20)
	Chloroethane	20	20.4	ug/L	102	2		40 (56)	160 (128)	20 (20)
	Trichlorofluoromethane	20	21.0	ug/L	105	4		40 (73)	160 (115)	20 (20)
	1,1,2-Trichlorotrifluoroethane	20	20.7	ug/L	104	2		70 (80)	130 (112)	20 (20)
	1,1-Dichloroethene	20	19.8	ug/L	99	3		70 (74)	130 (110)	20 (20)
	Acetone	100	100	ug/L	100	0		40 (60)	160 (125)	20 (20)
	Carbon disulfide	20	18.6	ug/L	93	1		40 (64)	160 (112)	20 (20)
	Methyl tert-butyl Ether	20	21.2	ug/L	106	2		70 (78)	130 (114)	20 (20)
	Methyl Acetate	20	22.8	ug/L	114	5		70 (67)	130 (125)	20 (20)
	Methylene Chloride	20	19.4	ug/L	97	0		70 (72)	130 (114)	20 (20)
	trans-1,2-Dichloroethene	20	19.9	ug/L	100	1		70 (75)	130 (108)	20 (20)
	1,1-Dichloroethane	20	20.6	ug/L	103	3		70 (78)	130 (112)	20 (20)
	Cyclohexane	20	19.9	ug/L	100	2		70 (75)	130 (110)	20 (20)
	2-Butanone	100	110	ug/L	110	10		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	20.8	ug/L	104	2		70 (77)	130 (113)	20 (20)
	cis-1,2-Dichloroethene	20	20.7	ug/L	104	0		70 (77)	130 (110)	20 (20)
	Bromochloromethane	20	22.6	ug/L	113	3		70 (70)	130 (124)	20 (20)
	Chloroform	20	21.2	ug/L	106	3		70 (79)	130 (113)	20 (20)
	1,1,1-Trichloroethane	20	21.0	ug/L	105	0		70 (80)	130 (108)	20 (20)
	Methylcyclohexane	20	19.8	ug/L	99	3		70 (72)	130 (115)	20 (20)
	Benzene	20	21.3	ug/L	106	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	21.9	ug/L	110	4		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	20.9	ug/L	104	1		70 (77)	130 (113)	20 (20)
	1,2-Dichloropropane	20	22.1	ug/L	111	2		70 (83)	130 (111)	20 (20)
	Bromodichloromethane	20	21.6	ug/L	108	0		70 (83)	130 (110)	20 (20)
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		40 (74)	160 (118)	20 (20)
	Toluene	20	21.4	ug/L	107	1		70 (82)	130 (110)	20 (20)
	t-1,3-Dichloropropene	20	20.6	ug/L	103	3		70 (79)	130 (110)	20 (20)
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	3		70 (82)	130 (110)	20 (20)
	1,1,2-Trichloroethane	20	22.2	ug/L	111	4		70 (83)	130 (112)	20 (20)
	2-Hexanone	100	110	ug/L	110	0		40 (73)	160 (117)	20 (20)
	Dibromochloromethane	20	22.4	ug/L	112	6		70 (82)	130 (110)	20 (20)
	1,2-Dibromoethane	20	21.6	ug/L	108	2		70 (81)	130 (110)	20 (20)
	Tetrachloroethene	20	19.8	ug/L	99	0		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	20.3	ug/L	102	1		70 (82)	130 (109)	20 (20)
	Ethyl Benzene	20	20.8	ug/L	104	1		70 (83)	130 (109)	20 (20)
	m/p-Xylenes	40	41.8	ug/L	104	1		70 (82)	130 (110)	20 (20)
	o-Xylene	20	20.9	ug/L	104	2		70 (83)	130 (109)	20 (20)
	Styrene	20	21.9	ug/L	110	3		70 (80)	130 (111)	20 (20)
	Bromoform	20	20.4	ug/L	102	1		70 (79)	130 (109)	20 (20)
	Isopropylbenzene	20	21.4	ug/L	107	2		70 (83)	130 (112)	20 (20)
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107	1		70 (76)	130 (118)	20 (20)
	1,3-Dichlorobenzene	20	20.9	ug/L	104	2		70 (82)	130 (108)	20 (20)
	1,4-Dichlorobenzene	20	20.4	ug/L	102	2		70 (82)	130 (107)	20 (20)
	1,2-Dichlorobenzene	20	21.5	ug/L	108	2		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2008

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260D **Datafile :** VX046129.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0512WBSD01	1,2-Dibromo-3-Chloropropane	20	21.2	ug/L	106	2		40 (68)	160 (112)	20 (20)
	1,2,4-Trichlorobenzene	20	20.8	ug/L	104	3		70 (75)	130 (113)	20 (20)
	1,2,3-Trichlorobenzene	20	20.4	ug/L	102	1		70 (76)	130 (114)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0512WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG NO.: Q2008

Lab File ID: VX046127.D Lab Sample ID: VX0512WBL01

Date Analyzed: 05/12/2025 Time Analyzed: 10:50

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0512WBS01	VX0512WBS01	VX046128.D	05/12/2025
VX0512WBSD01	VX0512WBSD01	VX046129.D	05/12/2025
IDW-AQ-DRUM-633-05092025	Q2008-01	VX046130.D	05/12/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG NO.: Q2008

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC020	VSTDICC020	VX046041.D	05/05/2025	11:35
VSTDICCC050	VSTDICCC050	VX046042.D	05/05/2025	11:58
VSTDICC100	VSTDICC100	VX046043.D	05/05/2025	12:21
VSTDICC150	VSTDICC150	VX046044.D	05/05/2025	12:45
VSTDICC005	VSTDICC005	VX046046.D	05/05/2025	16:04
VSTDICC001	VSTDICC001	VX046047.D	05/05/2025	16:27

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG NO.: Q2008

Lab File ID: VX046124.D BFB Injection Date: 05/12/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:30

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	57.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	65.9 (95.4) 1
177	5.0 - 9.0% of mass 176	4.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046125.D	05/12/2025	09:59
VX0512WBL01	VX0512WBL01	VX046127.D	05/12/2025	10:50
VX0512WBS01	VX0512WBS01	VX046128.D	05/12/2025	11:13
VX0512WBSD01	VX0512WBSD01	VX046129.D	05/12/2025	11:40
IDW-AQ-DRUM-633-05092025	Q2008-01	VX046130.D	05/12/2025	12:03

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG NO.: Q2008

Lab File ID: VX046125.D Date Analyzed: 05/12/2025

Instrument ID: MSVOA_X Time Analyzed: 09:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	99352	5.54	165662	6.75	144793	10.05
UPPER LIMIT	198704	6.038	331324	7.251	289586	10.549
LOWER LIMIT	49676	5.038	82831	6.251	72396.5	9.549
EPA SAMPLE NO.						
IDW-AQ-DRUM-633-05092025	68762	5.54	138646	6.76	129122	10.05
VX0512WBL01	69374	5.54	138547	6.76	131027	10.05
VX0512WBS01	93419	5.54	162432	6.76	143385	10.05
VX0512WBSD01	90547	5.54	155274	6.76	138103	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG NO.: Q2008

Lab File ID: VX046125.D Date Analyzed: 05/12/2025

Instrument ID: MSVOA_X Time Analyzed: 09:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	69015	12.018				
UPPER LIMIT	138030	12.518				
LOWER LIMIT	34507.5	11.518				
EPA SAMPLE NO.						
IDW-AQ-DRUM-633-05092025	57082	12.02				
VX0512WBL01	55247	12.02				
VX0512WBS01	66250	12.02				
VX0512WBSD01	65121	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBL01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046127.D	1		05/12/25 10:50	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	5.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	5.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
67-64-1	Acetone	1.50	U	1.50	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	5.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	5.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	5.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	5.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	5.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	5.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	25.0	ug/L
108-88-3	Toluene	0.14	U	0.14	5.00	ug/L

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBL01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046127.D	1		05/12/25 10:50	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	5.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	25.0	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	10.0	ug/L
95-47-6	o-Xylene	0.12	U	0.12	5.00	ug/L
100-42-5	Styrene	0.15	U	0.15	5.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	5.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	69400	5.544			
540-36-3	1,4-Difluorobenzene	139000	6.757			
3114-55-4	Chlorobenzene-d5	131000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	55200	12.018			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBL01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046127.D	1		05/12/25 10:50	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBS01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046128.D	1		05/12/25 11:13	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.8		0.22	5.00	ug/L
74-87-3	Chloromethane	20.3		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	19.8		0.26	5.00	ug/L
74-83-9	Bromomethane	19.2		1.40	5.00	ug/L
75-00-3	Chloroethane	20.7		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	21.8		0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		0.23	5.00	ug/L
67-64-1	Acetone	100		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	18.7		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.9		0.16	5.00	ug/L
79-20-9	Methyl Acetate	21.6		0.27	5.00	ug/L
75-09-2	Methylene Chloride	19.4		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.2		0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	21.1		0.23	5.00	ug/L
110-82-7	Cyclohexane	20.3		1.50	5.00	ug/L
78-93-3	2-Butanone	100		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.8		0.19	5.00	ug/L
74-97-5	Bromochloromethane	23.2		0.22	5.00	ug/L
67-66-3	Chloroform	21.8		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.0		0.20	5.00	ug/L
108-87-2	Methylcyclohexane	20.3		0.16	5.00	ug/L
71-43-2	Benzene	21.2		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.22	5.00	ug/L
79-01-6	Trichloroethene	21.0		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	21.7		0.20	5.00	ug/L
75-27-4	Bromodichloromethane	21.6		0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	25.0	ug/L
108-88-3	Toluene	21.1		0.14	5.00	ug/L

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBS01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046128.D	1		05/12/25 11:13	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.0		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.6		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.4		0.21	5.00	ug/L
591-78-6	2-Hexanone	110		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.23	5.00	ug/L
108-90-7	Chlorobenzene	20.6		0.12	5.00	ug/L
100-41-4	Ethyl Benzene	21.0		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	41.9		0.24	10.0	ug/L
95-47-6	o-Xylene	21.3		0.12	5.00	ug/L
100-42-5	Styrene	21.4		0.15	5.00	ug/L
75-25-2	Bromoform	20.1		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	21.7		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.3		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.7		0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.3		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.8		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.1		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.5		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.1		70 (74) - 130 (125)	110%	SPK: 50
1868-53-7	Dibromofluoromethane	56.2		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	54.8		70 (86) - 130 (113)	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		70 (77) - 130 (121)	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93400	5.544			
540-36-3	1,4-Difluorobenzene	162000	6.757			
3114-55-4	Chlorobenzene-d5	143000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	66300	12.018			

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Fax : 908 789 8922

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBS01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046128.D	1		05/12/25 11:13	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBSD01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046129.D	1		05/12/25 11:40	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.9		0.22	5.00	ug/L
74-87-3	Chloromethane	19.6		0.32	5.00	ug/L
75-01-4	Vinyl Chloride	19.5		0.26	5.00	ug/L
74-83-9	Bromomethane	18.3		1.40	5.00	ug/L
75-00-3	Chloroethane	20.4		0.47	5.00	ug/L
75-69-4	Trichlorofluoromethane	21.0		0.33	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.7		0.25	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.8		0.23	5.00	ug/L
67-64-1	Acetone	100		1.50	25.0	ug/L
75-15-0	Carbon Disulfide	18.6		0.21	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.2		0.16	5.00	ug/L
79-20-9	Methyl Acetate	22.8		0.27	5.00	ug/L
75-09-2	Methylene Chloride	19.4		0.28	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.9		0.23	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.6		0.23	5.00	ug/L
110-82-7	Cyclohexane	19.9		1.50	5.00	ug/L
78-93-3	2-Butanone	110		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.8		0.25	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.7		0.19	5.00	ug/L
74-97-5	Bromochloromethane	22.6		0.22	5.00	ug/L
67-66-3	Chloroform	21.2		0.25	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.0		0.20	5.00	ug/L
108-87-2	Methylcyclohexane	19.8		0.16	5.00	ug/L
71-43-2	Benzene	21.3		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	21.9		0.22	5.00	ug/L
79-01-6	Trichloroethene	20.9		0.090	5.00	ug/L
78-87-5	1,2-Dichloropropane	22.1		0.20	5.00	ug/L
75-27-4	Bromodichloromethane	21.6		0.22	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	25.0	ug/L
108-88-3	Toluene	21.4		0.14	5.00	ug/L

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBSD01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046129.D	1		05/12/25 11:40	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.6		0.17	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.16	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	5.00	ug/L
591-78-6	2-Hexanone	110		0.89	25.0	ug/L
124-48-1	Dibromochloromethane	22.4		0.18	5.00	ug/L
106-93-4	1,2-Dibromoethane	21.6		0.15	5.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.23	5.00	ug/L
108-90-7	Chlorobenzene	20.3		0.12	5.00	ug/L
100-41-4	Ethyl Benzene	20.8		0.13	5.00	ug/L
179601-23-1	m/p-Xylenes	41.8		0.24	10.0	ug/L
95-47-6	o-Xylene	20.9		0.12	5.00	ug/L
100-42-5	Styrene	21.9		0.15	5.00	ug/L
75-25-2	Bromoform	20.4		0.19	5.00	ug/L
98-82-8	Isopropylbenzene	21.4		0.12	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.26	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.9		0.16	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.4		0.19	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.5		0.16	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.2		0.53	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.8		0.20	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.4		0.20	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	55.9		70 (75) - 130 (124)	112%	SPK: 50
2037-26-5	Toluene-d8	55.4		70 (86) - 130 (113)	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.4		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	90500	5.543			
540-36-3	1,4-Difluorobenzene	155000	6.757			
3114-55-4	Chlorobenzene-d5	138000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	65100	12.018			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VX0512WBSD01	SDG No.:	Q2008
Lab Sample ID:	VX0512WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046129.D	1		05/12/25 11:40	VX051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.697	0.864	0.859	0.875	0.639	0.658	0.765	14.6
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methyl Acetate	0.814	0.848	0.845	0.875	0.816	1.006	0.867	8.3
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
Cyclohexane	1.090	1.128	1.128	1.150	1.059		1.111	3.3
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Bromochloromethane	0.628	0.578	0.595	0.590	0.553	0.576	0.587	4.3
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3
1,2-Dibromoethane	0.359	0.373	0.368	0.381	0.333	0.322	0.356	6.5
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3
1,2-Dibromo-3-Chloropropane	0.299	0.322	0.329	0.356	0.248	0.259	0.302	13.9
1,2,4-Trichlorobenzene	0.861	0.981	1.035	1.123	0.842	0.862	0.951	12
1,2,3-Trichlorobenzene	0.921	1.019	1.051	1.107	0.846	0.941	0.981	9.7
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008

Instrument ID: MSVOA_X Calibration Date/Time: 05/12/2025 09:59

Lab File ID: VX046125.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.765	0.819		7.06	20
Chloromethane	0.742	0.738	0.1	-0.54	20
Vinyl Chloride	0.691	0.666		-3.62	20
Bromomethane	0.320	0.303		-5.31	20
Chloroethane	0.369	0.371		0.54	20
Trichlorofluoromethane	1.021	1.041		1.96	20
1,1,2-Trichlorotrifluoroethane	0.632	0.622		-1.58	20
1,1-Dichloroethene	0.593	0.562		-5.23	20
Acetone	0.374	0.357		-4.55	20
Carbon Disulfide	1.406	1.418		0.85	20
Methyl tert-butyl Ether	2.079	2.008		-3.41	20
Methyl Acetate	0.867	0.843		-2.77	20
Methylene Chloride	0.716	0.643		-10.2	20
trans-1,2-Dichloroethene	0.596	0.570		-4.36	20
1,1-Dichloroethane	1.219	1.174	0.1	-3.69	20
Cyclohexane	1.111	1.042		-6.21	20
2-Butanone	0.543	0.506		-6.81	20
Carbon Tetrachloride	0.544	0.557		2.39	20
cis-1,2-Dichloroethene	0.718	0.686		-4.46	20
Bromochloromethane	0.587	0.557		-5.11	20
Chloroform	1.271	1.225		-3.62	20
1,1,1-Trichloroethane	1.101	1.086		-1.36	20
Methylcyclohexane	0.623	0.612		-1.77	20
Benzene	1.417	1.405		-0.85	20
1,2-Dichloroethane	0.612	0.610		-0.33	20
Trichloroethene	0.341	0.339		-0.59	20
1,2-Dichloropropane	0.352	0.360		2.27	20
Bromodichloromethane	0.547	0.578		5.67	20
4-Methyl-2-Pentanone	0.605	0.596		-1.49	20
Toluene	0.869	0.853		-1.84	20
t-1,3-Dichloropropene	0.487	0.519		6.57	20
cis-1,3-Dichloropropene	0.538	0.555		3.16	20
1,1,2-Trichloroethane	0.343	0.346		0.88	20
2-Hexanone	0.448	0.439		-2.01	20
Dibromochloromethane	0.376	0.412		9.57	20
1,2-Dibromoethane	0.356	0.351		-1.4	20
Tetrachloroethene	0.354	0.352		-0.56	20
Chlorobenzene	1.094	1.063	0.3	-2.83	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008

Instrument ID: MSVOA_X Calibration Date/Time: 05/12/2025 09:59

Lab File ID: VX046125.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.929	1.941		0.62	20
m/p-Xylenes	0.706	0.710		0.57	20
o-Xylene	0.688	0.691		0.44	20
Styrene	1.127	1.178		4.53	20
Bromoform	0.281	0.302	0.1	7.47	20
Isopropylbenzene	3.893	3.916		0.59	20
1,1,2,2-Tetrachloroethane	1.364	1.243	0.3	-8.87	20
1,3-Dichlorobenzene	1.649	1.648		-0.06	20
1,4-Dichlorobenzene	1.684	1.688		0.24	20
1,2-Dichlorobenzene	1.655	1.616		-2.36	20
1,2-Dibromo-3-Chloropropane	0.302	0.298		-1.33	20
1,2,4-Trichlorobenzene	0.951	0.964		1.37	20
1,2,3-Trichlorobenzene	0.981	0.982		0.1	20
1,2-Dichloroethane-d4	0.932	0.830		-10.94	20
Dibromofluoromethane	0.360	0.350		-2.78	20
Toluene-d8	1.246	1.176		-5.62	20
4-Bromofluorobenzene	0.478	0.462		-3.35	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.