

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-633-0 5092025	Water			05/09/25			05/09/25
			Diesel Range Organics	8015D		05/13/25	05/13/25	
			Gasoline Range Organics	8015D			05/12/25	



SAMPLE DATA

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:	8015D GRO	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Gasoline Range Organics
GPC Factor :		Injection Volume :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031697.D	1	05/12/25 11:44	FB051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	75.0		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	23.7		50 - 150	118%	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



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

WATER GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: JACOBS Engineering Group, Inc.
Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008

EPA SAMPLE NO.	S1 AAA-TFT	S2	S3	S4	TOT OUT
VB0512W1	88				0
BSF0512W1	92				0
IDW-AQ-DRUM-633-05092025	118				0
BSF0512W2	94				0

QC LIMITS

AAA-TFT

For Water : 50-150
For Soil : 50-150

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate Diluted Out

WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.
Lab Code: CHEM **Cas No:** Q2008 **SAS No :** Q2008 **SDG No:** Q2008
Matrix Spike - EPA Sample No : BSF0512W1 **Datafile:** FB031696.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
GRO	180	0	163	91	50-150

WATER GASOLINE RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATION

Lab Name: Chemtech **Client:** JACOBS Engineering Group, Inc.
Lab Code: CHEM **Cas No:** Q2008 **SAS No :** Q2008 **SDG No:** Q2008
Matrix Spike - EPA Sample No : BSF0512W2 **Datafile:** FB031698.D

COMPOUND	SPIKE ADDED ug/L	CONCENTRATION ug/L	LCS/LCSD CONCENTRATION ug/L	% REC	QC LIMITS
GRO	180	0	185	103	50-150

LCS/LCSD % Recovery RPD : 12.6

METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBF0512W1

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2008

SAS No.: Q2008 SDG NO.: Q2008

Lab File ID: FB031695.D

Lab Sample ID: VBF0512W1

Date Analyzed: 05/12/25

Time Analyzed: 10:20

GC Column: RTX-502.2 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: FB

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0512W1	BSF0512W1	FB031696.D	05/12/25
IDW-AQ-DRUM-633-05092025	Q2008-01	FB031697.D	05/12/25
BSF0512W2	BSF0512W2	FB031698.D	05/12/25

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	VBF0512W1	SDG No.:	Q2008
Lab Sample ID:	VBF0512W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031695.D	1	05/12/25 10:20	FB051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	6.00	U	6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	88%	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:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	BSF0512W1	SDG No.:	Q2008
Lab Sample ID:	BSF0512W1	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031696.D	1	05/12/25 11:16	FB051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	163		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.4		50 - 150	92%	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:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	
Client Sample ID:	BSF0512W2	SDG No.:	Q2008
Lab Sample ID:	BSF0512W2	Matrix:	Water
Analytical Method:	8015D GRO	% Solid:	0 Decanted:
Sample Wt/Vol:	5 Units: mL	Final Vol:	5 mL
Soil Aliquot Vol:	uL	Test:	Gasoline Range Organics
Extraction Type:		Injection Volume :	
GPC Factor :	PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB031698.D	1	05/12/25 12:55	FB051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
GRO	GRO	185		6.00	45.0	ug/L
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.7		50 - 150	94%	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



CALIBRATION SUMMARY

GASOLINE RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech Contract: JACO05
 ProjectID: Former Schlumberger Site Princeton NJ 2025
 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008

Calibration Sequence : FB042325			Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID	
45	1404536	31212	FB031638.D	
90	2828773	31431	FB031639.D	
180	5982574	33237	FB031640.D	
450	16361923	36360	FB031641.D	
900	31441842	34935	FB031642.D	
AVG RF : 33435		% RSD : 6.655		AVG RT : 8.7924

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: JACO05
ProjectID: Former Schlumberger Site Princeton NJ 2025
Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008
DataFile: FB031694.D Analyst Name: YP/AJ Analyst Date: 05-12-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	6211245	34507	33435	3.206

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Chemtech Contract: JACO05
ProjectID: Former Schlumberger Site Princeton NJ 2025
Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008 SDG No.: Q2008
DataFile: FB031699.D Analyst Name: YP/AJ Analyst Date: 05-12-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	5654010	31411	33435	6.054

Analytical Sequence

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Project: Former Schlumberger Site Princeton NJ 2025

Instrument ID: FID_B

GC Column: RTX-502.2 ID: 0.53 (mm)

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

MEAN SUROGATE RT FROM INITIAL CALIBRATION 8.7924					
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	12 May 2025 9:40	FB031694.D	8.787	
VBF0512W1	VBF0512W1	12 May 2025 10:20	FB031695.D	8.790	
BSF0512W1	BSF0512W1	12 May 2025 11:16	FB031696.D	8.792	
IDW-AQ-DRUM-633-05092025	Q2008-01	12 May 2025 11:44	FB031697.D	8.792	
BSF0512W2	BSF0512W2	12 May 2025 12:55	FB031698.D	8.791	
20 PPB GRO STD	20 PPB GRO STD	12 May 2025 13:53	FB031699.D	8.791	