

LAB CHRONICLE

OrderID: Q2436

Client: CDM Smith

Contact: Marcie Ann Encinas

OrderDate: 6/26/2025 3:41:00 PM

Project: South River WM Replacement

Location: D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2436-01	TP-70	SOIL			06/25/25			06/26/25
Q2+30-01	11-70	3012	Diesel Range Organics	8015D	00/25/25	06/30/25	06/30/25	00/20/25
			Gasoline Range Organics	8015D		00/30/23	06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
						23, 21, 25	55, 25, 25	
Q2436-02	TP-69	SOIL			06/25/25			06/26/25
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-03	TP-85	SOIL			06/25/25			06/26/25
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-04	TP-86	SOIL			06/25/25			06/26/25
_			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D		, ,	06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-05	TP-84	SOIL			06/25/25			06/26/25
•			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D		00,50,25	06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
02426.06	TD 02	COT			06 (25 (25	, , -		06/26/25
Q2436-06	TP-83	SOIL	Discal Banna Oussais	00155	06/25/25	06/20/25	06/20/25	06/26/25
			Diesel Range Organics	8015D		06/30/25	06/30/25	



LAB CHRONICLE

			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-07	TP-87	SOIL			06/26/25			06/26/25
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-08	TP-100	SOIL			06/26/25			06/26/25
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-09	TP-99	SOIL			06/26/25			06/26/25
			Diesel Range Organics	8015D		06/30/25	06/30/25	
			Gasoline Range Organics	8015D			06/27/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	
Q2436-10	TP-82	SOIL			06/26/25			06/26/25
			Diesel Range Organics	8015D		06/30/25	07/01/25	
			Gasoline Range Organics	8015D			06/30/25	
			PCB	8082A		06/27/25	06/27/25	
			Pesticide-TCL	8081B		06/27/25	06/28/25	



SAMPLE DATA





Client: CDM Smith

Date Collected: 06/25/25

Project: South River WM Replacement

06/26/25

SOIL

Client Sample ID: TP-70

00/20/23

Lab Sample ID: Q2436-01

SDG No.: Q2436

Analytical Method: 8015D DRO

Matrix:

Date Received:

82.1 Decanted:

Analytical Method: 8015D DRO

% Solid:

Decamed.

Sample Wt/Vol: 30.01

Final Vol: Test:

Injection Volume:

l mL

Soil Aliquot Vol:

Diesel Range Organics

Extraction Type: GPC Factor:

SW3541

Dilution:

Units:

PH:

g

uL

Prep Method:

Prep Date

Date Analyzed

Prep Batch ID

FG016178.D

File ID/Qc Batch:

06/30/25 08:00

06/30/25 15:09

PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	2220		206	2030	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	SPK: 20

Comments:

U = Not Detected

LOO = 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.





Client Sample ID:

Report of Analysis

Client: CDM Smith

nith Date Collected: 06/25/25

Date Received:

06/26/25

Project: South River WM Replacement

TP-69 SDG No.: Q2436

Lab Sample ID: Q2436-02 Matrix: SOIL

Analytical Method: 8015D DRO % Solid: 82 Decanted:

Sample Wt/Vol: 30.06 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3541

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

FG016179.D 1 06/30/25 08:00 06/30/25 15:39 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	2420		206	2030	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	10.0		37 - 130	50%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



Date Received:

Matrix:

06/26/25

SOIL



Report of Analysis

Client: CDM Smith

CDM Smith Date Collected: 06/25/25

Project: South River WM Replacement

Client Sample ID: TP-85 SDG No.: Q2436

Lab Sample ID: Q2436-03

Analytical Method: 8015D DRO % Solid: 85.1 Decanted:

Sample Wt/Vol: 30.08 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3541

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 FG016180.D
 1
 06/30/25 08:00
 06/30/25 16:09
 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	1770	J	198	1950	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	10.2		37 - 130	51%	SPK: 20

Comments:

U = Not Detected

LOO = 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.





Client: CDM Smith

Date Collected: 06/25/25

Date Received:

Matrix:

06/26/25

SOIL

Project: South River WM Replacement

TP-86 SDG No.: Q2436

Lab Sample ID: Q2436-04

Client Sample ID:

Analytical Method: 8015D DRO % Solid: 88.7 Decanted:

Sample Wt/Vol: 30.01 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3541

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 FG016181.D
 1
 06/30/25 08:00
 06/30/25 18:11
 PB168658

Conc. Qualifier MDL LOQ / CRQL Units(Dry Weight) **CAS Number Parameter TARGETS** DRO DRO 2310 190 1880 ug/kg **SURROGATES** 16416-32-3 Tetracosane-d50 10.1 37 - 13051% 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.





Client: CDM Smith

Project: South River WM Replacement

30.02

Units:

g

Client Sample ID: TP-84

Lab Sample ID: Q2436-05

Analytical Method: 8015D DRO

· ·

Soil Aliquot Vol: uL

Extraction Type:

FG016182.D

Sample Wt/Vol:

GPC Factor: PH:

Prep Method: SW3541

File ID/Qc Batch: Dilution:

Prep Date

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/25/25

06/26/25

Q2436

SOIL

92.3

Prep Batch ID

Diesel Range Organics

Decanted:

mL

06/30/25 08:00 06/30/25 18:41 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	1790	J	183	1810	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	10.0		37 - 130	50%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

06/30/25 19:11

Injection Volume:

Test:

06/25/25

06/26/25

Q2436

SOIL

90.6

Decanted:

mL

Diesel Range Organics

PB168658

51%

SPK: 20



Report of Analysis

Client: CDM Smith

South River WM Replacement

Client Sample ID: TP-83

Lab Sample ID: Q2436-06

Analytical Method: 8015D DRO

Sample Wt/Vol: 30.06 Units:

Soil Aliquot Vol: uL

Extraction Type:

FG016183.D

SURROGATES 16416-32-3

Project:

GPC Factor: PH:

Tetracosane-d50

Prep Method: SW3541

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

10.3

06/30/25 08:00

g

CAS Number Parameter Conc. Qualifier MDL LOQ/CRQL Units(Dry Weight)

TARGETS
DRO DRO 2030 186 1840 ug/kg

37 - 130

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.



Date Received:

Matrix:

06/26/25

SOIL



Report of Analysis

Client: CDM Smith

DM Smith Date Collected: 06/26/25

Project: South River WM Replacement

Client Sample ID: TP-87 SDG No.: Q2436

Lab Sample ID: Q2436-07

Analytical Method: 8015D DRO % Solid: 89.9 Decanted:

Sample Wt/Vol: 30.07 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3541

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 FG016184.D
 1
 06/30/25 08:00
 06/30/25 19:41
 PB168658

Qualifier MDL LOQ / CRQL Units(Dry Weight) **CAS Number Parameter** Conc. **TARGETS** DRO DRO 1580 J 188 1850 ug/kg **SURROGATES** 16416-32-3 Tetracosane-d50 8.42 37 - 13042% 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.





Client: CDM Smith

South River WM Replacement

Client Sample ID: TP-100

Lab Sample ID: Q2436-08

Analytical Method: 8015D DRO

Sample Wt/Vol: 30.04 Units:

Soil Aliquot Vol: uL

Extraction Type:

FG016185.D

Project:

GPC Factor: PH:

Prep Method: SW3541

File ID/Qc Batch: Dilution:

tion: Prep Date 06/30/25 08:00

g

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/26/25

06/26/25

Q2436

SOIL

85.6

Prep Batch ID

Diesel Range Organics

Decanted:

mL

06/30/25 20:11 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	3810		197	1940	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	9.03		37 - 130	45%	SPK: 20

Comments:

U = Not Detected

LOO = 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.





Client: CDM Smith

Project: South River WM Replacement

Client Sample ID: TP-99

Lab Sample ID: Q2436-09

Analytical Method: 8015D DRO

Sample Wt/Vol: 30.05 Units:

Soil Aliquot Vol: uL

Extraction Type:

FG016186.D

GPC Factor: PH:

Prep Method: SW3541

File ID/Qc Batch: Dilution:

Prep Date

g

Date Analyzed

Prep Batch ID

Diesel Range Organics

Decanted:

mL

06/30/25 08:00 06/30/25 20:41 PB168658

Injection Volume:

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Test:

06/26/25

06/26/25

Q2436

SOIL

92.2

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	1590	J	183	1810	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	9.15		37 - 130	46%	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.



Date Received:

06/26/25



Report of Analysis

Client: CDM Smith

DM Smith Date Collected: 06/26/25

Project: South River WM Replacement

Client Sample ID: TP-82 SDG No.: Q2436

Lab Sample ID: Q2436-10 Matrix: SOIL

Analytical Method: 8015D DRO % Solid: 92 Decanted:

Sample Wt/Vol: 30.09 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor : PH :

SW3541

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

FG016195.D 1 06/30/25 09:50 07/01/25 10:04 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	1160	J	183	1810	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	8.04		37 - 130	40%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



QC SUMMARY



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

SOIL DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Chemtech Client: CDM Smith

Lab Code: CHEM Case No.: O2436 SAS No.: O2436 SDG No.: O2436

Lab Code: CHEM	Case No.:	Q2436	SAS No.:	<u>Q243</u>	<u> </u>	G No.: $Q24$	30
EPA		S1		S2	S3	S4	ТОТ
SAMPLE NO.		TETRACOSANE-d	50				OUT
PIBLK-FF016042.D		84					0
PIBLK-FF016055.D		79					0
PIBLK-FG016175.D		81					0
PIBLK-FG016188.D		83					0
PIBLK-FG016192.D		101					0
PIBLK-FG016196.D		84					0
PB168658BL		114					0
PB168658BS		72					0
TP-35MS		74					0
TP-35MSD		74					0
TP-70		51					0
TP-69		50					0
TP-85		51					0
TP-86		51					0
TP-84		50					0
TP-83		51					0
TP-87		42					0
TP-100		45					0
TP-99		46					0
TP-82		40					0

QC LIMITS

TETRACOSANE-d50

For Water : 29-130 For Soil : 37-130

[#] Column to be used to flag recovery values

^{*} Values outside of contract required QC limits



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

Fax: 908 789 8922

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	Chemtech			Client:	CDM Smi	th		
Lab Code:	CHEM	Cas No:	Q2436	SAS No:	Q2436	SDG No:	Q2436	
Client Sample	ID:	TP-35MS			Datafile:	FF016048.D	_	
						 		

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7493	30100	33011	38%	*	68-131

Fax: 908 789 8922

SOIL DIESEL RANGE ORGANICS MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

 Lab Name:
 Chemtech
 Client:
 CDM Smith

 Lab Code:
 CHEM
 Cas No:
 Q2436
 SAS No:
 Q2436
 SDG No:
 Q2436

Client SampleID: TP-35MSD Datafile: FF016049.D

COMPOUND	SPIKE ADDED ug/kg	SAMPLE CONCENTRATION ug/kg	MS/MSD CONCENTRATION ug/kg	% REC	Qual	QC LIMITS
DRO	7488	30100	32647	34%	*	68-131

MS/MSD % Recovery RPD : 13.3



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

Fax: 908 789 8922

SOIL DIESEL RANGE ORGANICS LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RI

Lab Name:	Chemtech			Client:	CDM Smith		
Lab Code:	СНЕМ	Cas No:	Q2436	SAS No:	Q2436	SDG No:	Q2436

Matrix Spike - EPA Sample No: PB168658BS Datafile: FF016046.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS
DRO	6662	0	4925	74	68-131



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

4B
METHOD BLANK SUMMARY

EPA	SAMPLE	NO.

PB168658BL

Lab Name: CHEMTECH Contract: CAMP02

Lab File ID: FF016045.D Lab Sample ID: PB168658BL

Instrument ID: FF Date Extracted: 06/30/2025

Matrix: (soil/water) Soil Date Analyzed: 06/30/25

Level: (low/med) low Time Analyzed: 20:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168658BS	PB168658BS	FF016046.D	06/30/25
TP-35MS	Q2413-01MS	FF016048.D	06/30/25
TP-35MSD	Q2413-01MSD	FF016049.D	06/30/25
TP-70	Q2436-01	FG016178.D	06/30/25
TP-69	Q2436-02	FG016179.D	06/30/25
TP-85	Q2436-03	FG016180.D	06/30/25
TP-86	Q2436-04	FG016181.D	06/30/25
TP-84	Q2436-05	FG016182.D	06/30/25
TP-83	Q2436-06	FG016183.D	06/30/25
TP-87	Q2436-07	FG016184.D	06/30/25
TP-100	Q2436-08	FG016185.D	06/30/25
TP-99	Q2436-09	FG016186.D	06/30/25
TP-82	Q2436-10	FG016195.D	07/01/25

COMMENTS:			



QC SAMPLE DATA





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: PB168658BL SDG No.: Q2436
Lab Sample ID: PB168658BL Matrix: SOIL

Analytical Method: 8015D DRO % Solid: 100 Decanted:

Sample Wt/Vol: 30.01 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3541

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 FF016045.D
 1
 06/30/25 09:50
 06/30/25 20:41
 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	169	U	169	1670	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	22.8		37 - 130	114%	SPK: 20

Comments:

U = Not Detected

LOO = 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.





Client: CDM Smith

Date Collected: 06/30/25

Project: South River WM Replacement

Date Received: 06/30/25

Client Sample ID: PIBLK-FF016042.D

SDG No.: Q2436

Lab Sample ID: I.BLK-FF016042.D

Matrix: Water

Analytical Method:

K-11010042.D

0 Decanted:

Sample Wt/Vol:

Units: mL

Final Vol:

Soil Aliquot Vol:

% Solid:

Test:

Diesel Range Organics

mL

Extraction Type:

Injection Volume:

GPC Factor:

PH:

uL

P.

Prep Method:

File ID/Qc Batch:

SW3510

Dilution:

8015D DRO

1000

Prep Date

Date Analyzed

Prep Batch ID

FF016042.D

- 1

06/30/25 FF063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES 16416-32-3	Tetracosane-d50	16.8		29 - 130	84%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



Date Received:

Matrix:

07/01/25

Water



Report of Analysis

Client: CDM Smith

DM Smith Date Collected: 07/01/25

Project: South River WM Replacement

Client Sample ID: PIBLK-FF016055.D SDG No.: Q2436

Lab Sample ID: I.BLK-FF016055.D

Analytical Method: 8015D DRO % Solid: 0 Decanted:

Sample Wt/Vol: 1000 Units: mL Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3510

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

FF016055.D 1 07/01/25 FF063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES 16416-32-3	Tetracosane-d50	15.8		29 - 130	79%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



Date Received:

Matrix:

06/30/25

Water



Report of Analysis

Client: CDM Smith

DM Smith Date Collected: 06/30/25

Project: South River WM Replacement

Client Sample ID: PIBLK-FG016175.D SDG No.: Q2436

Lab Sample ID: I.BLK-FG016175.D

Analytical Method: 8015D DRO % Solid: 0 Decanted:

Sample Wt/Vol: 1000 Units: mL Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3510

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

FG016175.D 1 06/30/25 FG063025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES 16416-32-3	Tetracosane-d50	16.3		29 - 130	81%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:



Report of Analysis

Client: CDM Smith

South River WM Replacement

Client Sample ID: PIBLK-FG016188.D

Lab Sample ID: I.BLK-FG016188.D

Analytical Method: 8015D DRO

Sample Wt/Vol: 1000 Units: m

Soil Aliquot Vol: uL

Extraction Type:

FG016188.D

Project:

GPC Factor: PH:

Prep Method: SW3510

File ID/Qc Batch: Dilution:

Prep Date Date Analyzed

06/30/25 FG063025

06/30/25

06/30/25

Q2436

Water

Decanted:

mL

Diesel Range Organics

Prep Batch ID

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES 16416-32-3	Tetracosane-d50	16.6		29 - 130	83%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

07/01/25

07/01/25

Q2436

Water



Report of Analysis

Client: CDM Smith

South River WM Replacement

Client Sample ID: PIBLK-FG016192.D

Lab Sample ID: I.BLK-FG016192.D

Analytical Method: 8015D DRO

Sample Wt/Vol: 1000 Units: mL

Soil Aliquot Vol: uL

Extraction Type:

FG016192.D

Project:

GPC Factor: PH:

Prep Method: SW3510

File ID/Qc Batch: Dilution:

Prep Date Date Analyzed

Prep Batch ID FG070125

Diesel Range Organics

Decanted:

mL

07/01/25

CAS Number	Parameter	Conc.	Qualifie	r MDL	LOQ / CRQL	Units
TARGETS DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES 16416-32-3	Tetracosane-d50	20.2		29 - 130	101%	SPK: 20

Comments:

U = Not Detected

LOO = 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.



07/01/25

07/01/25

Q2436

Water

Decanted:

Date Received:

SDG No.:

Matrix:

% Solid:



Client Sample ID:

Report of Analysis

Client: CDM Smith

CDM Smith Date Collected:

Project: South River WM Replacement

PIBLK-FG016196.D

Lab Sample ID: I.BLK-FG016196.D

Analytical Method: 8015D DRO

Sample Wt/Vol: 1000 Units: mL Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume:

GPC Factor: PH:

Prep Method: SW3510

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

FG016196.D 1 07/01/25 FG070125

CAS Number	Parameter	Conc.	Qualifie	r MDL	LOQ / CRQL	Units
TARGETS DRO	DRO	6.00	U	6.00	50.0	ug/L
SURROGATES 16416-32-3	Tetracosane-d50	16.8		29 - 130	84%	SPK: 20

Comments:

U = Not Detected

LOO = 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.





Client: CDM Smith Date Collected:

Project: South River WM Replacement Date Received:

Client Sample ID: PB168658BS SDG No.: Q2436
Lab Sample ID: PB168658BS Matrix: SOIL

Analytical Method: 8015D DRO % Solid: 100 Decanted:

Sample Wt/Vol: 30.02 Units: g Final Vol: 1 mL

Soil Aliquot Vol: uL Test: Diesel Range Organics

Extraction Type: Injection Volume :

GPC Factor: PH:

Prep Method: SW3541

 File ID/Qc Batch:
 Dilution:
 Prep Date
 Date Analyzed
 Prep Batch ID

 FF016046.D
 1
 06/30/25 09:50
 06/30/25 21:11
 PB168658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	4930		169	1670	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	14.3		37 - 130	72%	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.





Client: CDM Smith

South River WM Replacement

g

Client Sample ID: TP-35MS

Lab Sample ID: Q2413-01MS

Analytical Method: 8015D DRO

Sample Wt/Vol: 30.06 Units:

Soil Aliquot Vol: uL

Extraction Type:

FF016048.D

Project:

GPC Factor: PH:

Prep Method: SW3541

File ID/Qc Batch: Dilution:

Prep Date

Date Analyzed

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/23/25

06/24/25

Q2436

SOIL

88.8

Prep Batch ID

Decanted:

mL

06/30/25 09:50 06/30/25 22:10

PB168658

Diesel Range Organics

Qualifier MDL LOQ / CRQL Units(Dry Weight) **CAS Number Parameter** Conc. **TARGETS** DRO DRO 33000 190 1870 ug/kg **SURROGATES** 16416-32-3 Tetracosane-d50 14.9 37 - 13074% 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.





Client: CDM Smith

South River WM Replacement

g

Client Sample ID: TP-35MSD

Lab Sample ID: Q2413-01MSD

Analytical Method: 8015D DRO

Sample Wt/Vol: 30.08 Units:

Soil Aliquot Vol: uL

Extraction Type:

FF016049.D

Project:

GPC Factor: PH:

Prep Method: SW3541

File ID/Qc Batch: Dilution:

Prep Date

Date Analyzed

Prep Batch ID

Diesel Range Organics

Decanted:

mL

06/30/25 09:50 06/30/25 22:40 PB168658

Date Collected:

Date Received:

SDG No.:

Matrix:

% Solid:

Final Vol:

Injection Volume:

Test:

06/23/25

06/24/25

Q2436

SOIL

88.8

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS DRO	DRO	32600		190	1870	ug/kg
SURROGATES 16416-32-3	Tetracosane-d50	14.8		37 - 130	74%	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.



CALIBRATION SUMMARY

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech			Contract:	CAMP02				
ProjectID:	South River V	WM Replacement						
Lab Code:	CHEM	Case No.:	O2436	SAS No.:	O2436	SDG No.:	Q2436	

Calibration Sequence : FF061325		Test : Diesel Rang	e Organics
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	128762116	128762	FF015964.D
500	64295722	128591	FF015965.D
200	27169561	135848	FF015966.D
100	13526499	135265	FF015967.D
50	7306219	146124	FF015968.D
AVG RF: 134918	9/	6 RSD : 5.299	AVG RT: 15.094

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

DIESEL RANGE ORGANICS INITIAL CALIBRATION SUMMARY

Lab Name: Chemtech			Contract:	CAMP02				
ProjectID:	South River WM Replacement							
Lab Code:	CHEM	Case No.:	O2436	SAS No.:	O2436	SDG No.:	Q2436	

Calibration Sequence : FG061325		Test : Diesel Rang	e Organics
Concentration (PPM)	Area Count	Reference Factor	File ID
1000	121978597	121979	FG016063.D
500	61365081	122730	FG016064.D
200	26234834	131174	FG016065.D
100	13396741	133967	FG016066.D
50	7145066	142901	FG016067.D
AVC PF · 130550	-	6 PSD + 6 625	AVC DT - 15 107



Fax: 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name:	Chemtech			Contract:	CAMP02	
ProjectID:	South River WM Replac	ement				
Lab Code:	СНЕМ	Case No.:	Q2436	SAS No.:	Q2436	SDG No.: Q2436
DataFile:	FF016043.D		Analyst Name:	YP\AJ	Analyst Da	nte: 06-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65882919	131766	134918	2.336



 ${\tt 284~Sheffield~Street,~Mountainside,~New~Jersey~07092,~Phone:908~789~8900,}\\$

Fax: 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name:	Chemtech			Contract:	CAMP02	
ProjectID:	South River WM Replac	cement				
Lab Code:	СНЕМ	Case No.:	Q2436	SAS No.:	Q2436	SDG No.: Q2436
DataFile:	FF016056.D		Analyst Name:	YP\AJ	Analyst Da	ite: <u>07-01-2025</u>

Conc. (PPM)	Area Count	RF	Average RF	%D
500	66132155	132264	134918	1.967



Fax: 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name:	Chemtech			Contract:	CAMP02	
ProjectID:	South River WM Repla	cement				
Lab Code:	СНЕМ	Case No.:	Q2436	SAS No.:	Q2436	SDG No.: Q2436
DataFile:	FG016176.D		Analyst Name:	<u>YP\AJ</u>	Analyst Da	nte: 06-30-2025

Conc. (PPM)	Area Count	RF	Average RF	%D
500	60927530	121855	130550	6.66



Fax: 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name:	Chemtech			Contract:	CAMP02		
ProjectID:	South River WM Replace	cement					
Lab Code:	СНЕМ	Case No.:	Q2436	SAS No.:	Q2436	SDG No.: <u>Q2436</u>	
DataFile:	FG016189.D		Analyst Name:	YP\AJ	Analyst Da	te: <u>06-30-2025</u>	

Conc. (PPM)	Area Count	RF	Average RF	%D
500	63940567	127881	130550	2.044



Fax: 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name:	Chemtech			Contract:	CAMP02		
ProjectID:	South River WM Repla	cement					
Lab Code:	СНЕМ	Case No.:	Q2436	SAS No.:	Q2436	SDG No.: Q2436	
DataFile:	FG016193.D		Analyst Name:	YP\AJ	Analyst Da	ite: <u>07-01-2025</u>	

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65241935	130484	130550	0.051



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Fax: 908 789 8922

DIESEL RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name:	Chemtech	Chemtech			CAMP02		
ProjectID:	South River WM Replace	cement					
Lab Code:	СНЕМ	Case No.:	Q2436	SAS No.:	Q2436	SDG No.: Q2436	
DataFile:	FG016197.D		Analyst Name:	YP\AJ	Analyst Da	ite: <u>07-01-2025</u>	

Conc. (PPM)	Area Count	RF	Average RF	%D
500	65157320	130315	130550	0.18

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

Fax: 908 789 8922

Analytical Sequence

Client: CDM Smith Q2436 SDG No.:

Project: South River WM Replacement Instrument ID: FID_G

GC Column: RXI-1MS **ID:** 0.18 (mm)

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

MEAN SUROGATE RT FROM I	NITIAL CALIBRATION	15.0944			
EPA SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
PIBLK01	I.BLK01	30 Jun 2025 18:41	FF016042.D	15.094	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jun 2025 19:11	FF016043.D	15.097	
PB168658BL	PB168658BL	30 Jun 2025 20:41	FF016045.D	15.093	
PB168658BS	PB168658BS	30 Jun 2025 21:11	FF016046.D	15.093	
TP-35MS	Q2413-01MS	30 Jun 2025 22:10	FF016048.D	15.094	
TP-35MSD	Q2413-01MSD	30 Jun 2025 22:40	FF016049.D	15.094	
PIBLK02	I.BLK02	01 Jul 2025 01:38	FF016055.D	15.093	
50 PPM TRPH STD	50 PPM TRPH STD	01 Jul 2025 02:08	FF016056.D	15.096	
PIBLK03	I.BLK03	30 Jun 2025 13:39	FG016175.D	15.199	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jun 2025 14:09	FG016176.D	15.201	
TP-70	Q2436-01	30 Jun 2025 15:09	FG016178.D	15.198	
TP-69	Q2436-02	30 Jun 2025 15:39	FG016179.D	15.198	
TP-85	Q2436-03	30 Jun 2025 16:09	FG016180.D	15.198	
TP-86	Q2436-04	30 Jun 2025 18:11	FG016181.D	15.198	
TP-84	Q2436-05	30 Jun 2025 18:41	FG016182.D	15.198	
TP-83	Q2436-06	30 Jun 2025 19:11	FG016183.D	15.198	
TP-87	Q2436-07	30 Jun 2025 19:41	FG016184.D	15.198	
TP-100	Q2436-08	30 Jun 2025 20:11	FG016185.D	15.199	
TP-99	Q2436-09	30 Jun 2025 20:41	FG016186.D	15.200	
PIBLK04	I.BLK04	30 Jun 2025 21:40	FG016188.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	30 Jun 2025 22:10	FG016189.D	15.202	
PIBLK05	I.BLK05	01 Jul 2025 08:28	FG016192.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	01 Jul 2025 08:58	FG016193.D	15.202	
TP-82	Q2436-10	01 Jul 2025 10:04	FG016195.D	15.197	
PIBLK06	I.BLK06	01 Jul 2025 10:35	FG016196.D	15.198	
50 PPM TRPH STD	50 PPM TRPH STD	01 Jul 2025 11:04	FG016197.D	15.202	