

LAB CHRONICLE

OrderID:	Q2514	OrderDate:	7/3/2025 1:29:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	O21,O22,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2514-01	TP-92	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			Herbicide	8151A		07/08/25	07/10/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-02	TP-93	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			Herbicide	8151A		07/08/25	07/10/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-03	TP-94	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			Herbicide	8151A		07/08/25	07/10/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-04	TP-96	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	
			Herbicide	8151A		07/08/25	07/10/25	
			PCB	8082A		07/07/25	07/08/25	
			Pesticide-TCL	8081B		07/07/25	07/07/25	
Q2514-05	TP-97	SOIL			07/02/25			07/03/25
			Diesel Range Organics	8015D		07/08/25	07/08/25	
			Gasoline Range Organics	8015D			07/09/25	

LAB CHRONICLE

Q2514-06	TP-103	SOIL	Herbicide	8151A	07/08/25	07/10/25	07/02/25	07/03/25
			PCB	8082A	07/07/25	07/08/25		
			Pesticide-TCL	8081B	07/07/25	07/07/25		
Q2514-07	TP-36	SOIL	Diesel Range Organics	8015D	07/08/25	07/08/25	07/03/25	07/03/25
			Gasoline Range Organics	8015D		07/09/25		
			Herbicide	8151A	07/08/25	07/10/25		
			PCB	8082A	07/07/25	07/08/25		
			Pesticide-TCL	8081B	07/07/25	07/07/25		
Q2514-08	TP-78	SOIL	Diesel Range Organics	8015D	07/08/25	07/08/25	07/03/25	07/03/25
			Gasoline Range Organics	8015D		07/09/25		
			Herbicide	8151A	07/08/25	07/10/25		
			PCB	8082A	07/07/25	07/08/25		
			Pesticide-TCL	8081B	07/07/25	07/07/25		
Q2514-09	TP-81	SOIL	Diesel Range Organics	8015D	07/08/25	07/08/25	07/03/25	07/03/25
			Gasoline Range Organics	8015D		07/09/25		
			Herbicide	8151A	07/08/25	07/10/25		
			PCB	8082A	07/07/25	07/08/25		
			Pesticide-TCL	8081B	07/07/25	07/07/25		
Q2514-10	TP-90	SOIL	Diesel Range Organics	8015D	07/08/25	07/08/25	07/03/25	07/03/25
			Gasoline Range Organics	8015D		07/09/25		
			Herbicide	8151A	07/08/25	07/10/25		
			PCB	8082A	07/07/25	07/08/25		
			Pesticide-TCL	8081B	07/07/25	07/07/25		
Q2514-10RE	TP-90RE	SOIL			07/03/25		07/03/25	07/03/25

LAB CHRONICLE

Herbicide	8151A	07/08/25	07/11/25
-----------	-------	----------	----------

A

B

C

D

E

F

G



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-92	SDG No.:	Q2514
Lab Sample ID:	Q2514-01	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	87.4
Sample Wt/Vol:	5.2	Units:	g
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
FB032046.D	1	07/09/25 16:42	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	J	9.00	50.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.6		50 - 150	83%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-93	SDG No.:	Q2514
Lab Sample ID:	Q2514-02	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	87.7
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032045.D	1	07/09/25 16:15	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	15.0	J	9.00	51.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.5		50 - 150	82%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-94	SDG No.:	Q2514
Lab Sample ID:	Q2514-03	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	88.1
Sample Wt/Vol:	4.6	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032049.D	1	07/09/25 18:05	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	56.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	8.11	*	50 - 150	41%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-96	SDG No.:	Q2514
Lab Sample ID:	Q2514-04	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85.8
Sample Wt/Vol:	4.6	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032050.D	1	07/09/25 18:32	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	57.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.7		50 - 150	83%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-97	SDG No.:	Q2514
Lab Sample ID:	Q2514-05	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	85
Sample Wt/Vol:	6.5	Units:	g
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
FB032051.D	1	07/09/25 19:00	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	13.0	J	7.00	41.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.2		50 - 150	81%	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:	CDM Smith	Date Collected:	07/02/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-103	SDG No.:	Q2514
Lab Sample ID:	Q2514-06	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.5
Sample Wt/Vol:	5.3	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032052.D	1	07/09/25 19:27	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	49.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	16.2		50 - 150	81%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-36	SDG No.:	Q2514
Lab Sample ID:	Q2514-07	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	90.3
Sample Wt/Vol:	4	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032048.D	1	07/09/25 17:37	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	62.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.7		50 - 150	89%	SPK: 20

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Report of Analysis

Client:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-78	SDG No.:	Q2514
Lab Sample ID:	Q2514-08	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.3
Sample Wt/Vol:	5.2	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032047.D	1	07/09/25 17:10	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	9.00	U	9.00	50.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	18.2		50 - 150	91%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-81	SDG No.:	Q2514
Lab Sample ID:	Q2514-09	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	86.3
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		PH :	
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032054.D	1	07/09/25 20:21	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	10.0	U	10.0	52.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	15.8		50 - 150	79%	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:	CDM Smith	Date Collected:	07/03/25
Project:	South River WM Replacement	Date Received:	07/03/25
Client Sample ID:	TP-90	SDG No.:	Q2514
Lab Sample ID:	Q2514-10	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	91.6
Sample Wt/Vol:	4.2	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Final Vol:	5
GPC Factor :		Decanted:	
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032053.D	1	07/09/25 19:54	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	11.0	U	11.0	58.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.4		50 - 150	87%	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

SOIL GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No.: Q2514

CLIENT ID	S1 AAA-TFT	S2	S3	S4	TOT OUT
VB0709S1	114				0
BS0709S1	85				0
BS0709S2	87				0
TP-93	82				0
TP-92	83				0
TP-78	91				0
TP-36	89				0
TP-94	41 *				1
TP-96	83				0
TP-97	81				0
TP-103	81				0
TP-90	87				0
TP-81	79				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

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

Lab Name: Alliance

Client: CDM Smith

Lab Code: ACE

SDG No: Q2514

Client Sample ID : BSF0709S1

Datafile: FB032036.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	151	84	50-150

A
B
C
D
E
F
G

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

Lab Name: Alliance **Client:** CDM Smith
Lab Code: ACE **SDG No:** Q2514
Client Sample ID : BSF0709S2 **Datafile:** FB032043.D

COMPOUND	SPIKE ADDED ug/kg	CONCENTRATION ug/kg	LCS/LCSD CONCENTRATION ug/kg	% REC	QC LIMITS (%)
GRO	180	0	149	83	50-150

LCS/LCSD % Recovery RPD : 1.3

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBF0709S1

Lab Name: Alliance

Contract: CAMP02

Lab Code: ACE

SDG NO.: Q2514

Lab File ID: FB032034.D

Lab Sample ID: VBF0709S1

Date Analyzed: 07/09/25

Time Analyzed: 9:18

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

Heated Purge: (Y/N) Y

Instrument ID: FB

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

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BSF0709S1	BSF0709S1	FB032036.D	07/09/25
BSF0709S2	BSF0709S2	FB032043.D	07/09/25
TP-93	Q2514-02	FB032045.D	07/09/25
TP-92	Q2514-01	FB032046.D	07/09/25
TP-78	Q2514-08	FB032047.D	07/09/25
TP-36	Q2514-07	FB032048.D	07/09/25
TP-94	Q2514-03	FB032049.D	07/09/25
TP-96	Q2514-04	FB032050.D	07/09/25
TP-97	Q2514-05	FB032051.D	07/09/25
TP-103	Q2514-06	FB032052.D	07/09/25
TP-90	Q2514-10	FB032053.D	07/09/25
TP-81	Q2514-09	FB032054.D	07/09/25

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	VBF0709S1	SDG No.:	Q2514
Lab Sample ID:	VBF0709S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
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
FB032034.D	1	07/09/25 9:18	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	8.00	U	8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	22.7		50 - 150	114%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0709S1	SDG No.:	Q2514
Lab Sample ID:	BSF0709S1	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	5
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032036.D	1	07/09/25 10:13	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	151		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.0		50 - 150	85%	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:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	BSF0709S2	SDG No.:	Q2514
Lab Sample ID:	BSF0709S2	Matrix:	SOIL
Analytical Method:	8015D GRO	% Solid:	100
Sample Wt/Vol:	5	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Decanted:	
GPC Factor :		Final Vol:	5
Prep Method :		Test:	Gasoline Range Organics
		Injection Volume :	

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
FB032043.D	1	07/09/25 13:42	FB070925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
GRO	GRO	149		8.00	45.0	ug/kg
SURROGATES						
98-08-8	Alpha,Alpha,Alpha-Trifluoroto	17.4		50 - 150	87%	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: Alliance

Contract: CAMP02

ProjectID: South River WM Replacement

Lab Code: ACE

SDG No.: Q2514

Calibration Sequence : FB062325			Test : Gasoline Range Organics	
Concentration (PPB)	Area Count	Reference Factor	File ID	
45	1490557	33123	FB031909.D	
90	2566530	28517	FB031910.D	
180	5166210	28701	FB031911.D	
450	12609856	28022	FB031912.D	
900	27368301	30409	FB031913.D	
AVG RF : 29754		% RSD : 7.013	AVG RT : 8.798	

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FB032033.D Analyst Name: YP/AJ Analyst Date: 07-09-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4590295	25502	29754	14.291

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FB032044.D Analyst Name: YP/AJ Analyst Date: 07-09-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4650509	25836	29754	13.168

GASOLINE RANGE ORGANICS CONTINUING CALIBRATION SUMMARY

20 PPB GRO STD

Lab Name: Alliane Contract: CAMP02
ProjectID: South River WM Replacement
Lab Code: ACE SDG No.: Q2514
DataFile: FB032058.D Analyst Name: YP/AJ Analyst Date: 07-09-2025

Conc. (PPB)	Area Count	RF	Average RF	%D
180	4564441	25358	29754	14.774

Analytical Sequence

Client: CDM Smith

SDG No.: Q2514

Project: South River WM Replacement

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 8.798					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE AND TIME ANALYZED	DATAFILE	RT	#
20 PPB GRO STD	20 PPB GRO STD	9 Jul 2025 8:12	FB032033.D	8.799	
VBF0709S1	VBF0709S1	9 Jul 2025 9:18	FB032034.D	8.798	
BSF0709S1	BSF0709S1	9 Jul 2025 10:13	FB032036.D	8.798	
BSF0709S2	BSF0709S2	9 Jul 2025 13:42	FB032043.D	8.799	
20 PPB GRO STD	20 PPB GRO STD	9 Jul 2025 15:30	FB032044.D	8.801	
TP-93	Q2514-02	9 Jul 2025 16:15	FB032045.D	8.801	
TP-92	Q2514-01	9 Jul 2025 16:42	FB032046.D	8.800	
TP-78	Q2514-08	9 Jul 2025 17:10	FB032047.D	8.802	
TP-36	Q2514-07	9 Jul 2025 17:37	FB032048.D	8.803	
TP-94	Q2514-03	9 Jul 2025 18:05	FB032049.D	8.801	
TP-96	Q2514-04	9 Jul 2025 18:32	FB032050.D	8.802	
TP-97	Q2514-05	9 Jul 2025 19:00	FB032051.D	8.800	
TP-103	Q2514-06	9 Jul 2025 19:27	FB032052.D	8.800	
TP-90	Q2514-10	9 Jul 2025 19:54	FB032053.D	8.802	
TP-81	Q2514-09	9 Jul 2025 20:21	FB032054.D	8.800	
20 PPB GRO STD	20 PPB GRO STD	9 Jul 2025 22:10	FB032058.D	8.799	

Column used to flag RT values with an * values outside of QC limits

QC Limits
(± 0.10 minutes)

Lower Limit
8.698

Upper Limits
8.898

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB070825\
Data File : FB032030.D
Signal(s) : FID2B.CH
Acq On : 8 Jul 2025 22:40
Operator : YP/AJ
Sample : Q2514-03
Misc : 4.00G/5.00 ML DI WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-94

A

B

C

D

E

F

G

Integration File: SAMPLE.e
Quant Time: Jul 09 05:42:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB062325.M
Quant Title :
QLast Update : Mon Jun 23 13:56:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
5) s AAA-TFT	8.799	234096	15.174 ng/ml
Target Compounds			

(f)=RT Delta > 1/2 Window

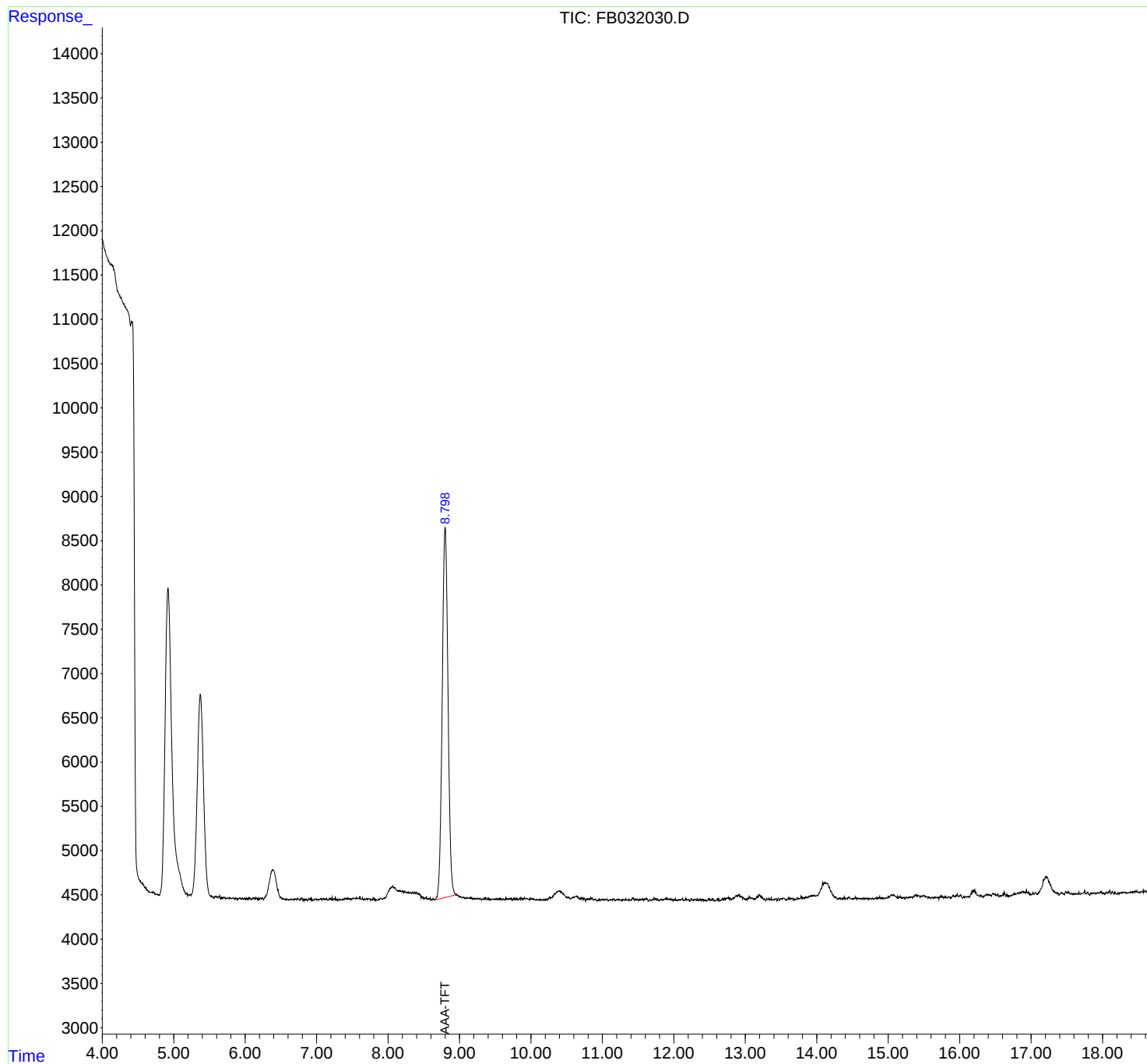
(m)=manual int.

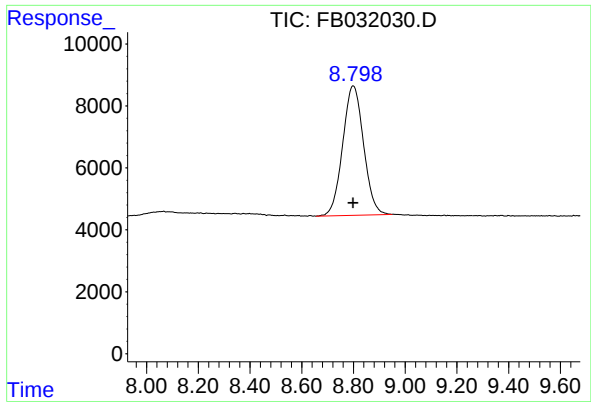
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB070825\
Data File : FB032030.D
Signal(s) : FID2B.CH
Acq On : 8 Jul 2025 22:40
Operator : YP/AJ
Sample : Q2514-03
Misc : 4.00G/5.00 ML DI WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_B
ClientSampleId :
TP-94

Integration File: SAMPLE.e
Quant Time: Jul 09 05:42:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB062325.M
Quant Title :
QLast Update : Mon Jun 23 13:56:54 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 5 g/ml
Signal Phase : RTX-502.2
Signal Info : 60mx0.53mmx3.00um





#5 AAA-TFT

R.T.: 8.799 min
Delta R.T.: 0.002 min
Response: 234096
Conc: 15.17 ng/ml

Instrument :
FID_B
ClientSampleId :
TP-94

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_B\Data\FB070825\

Data File : FB032030.D

Signal(s) : FID2B.CH

Acq On : 8 Jul 2025 22:40

Sample : Q2514-03

Misc : 4.00G/5.00 ML DI WATER

ALS Vial : 23 Sample Multiplier: 1

Integration File: SAMPLE.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_B\Method\FB062325.M

Title :

Signal : FID2B.CH

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.688	4.637	4.707	BV	4	15	0.01%	0.003%
2	4.714	4.707	4.753	VV	18	248	0.10%	0.055%
3	4.767	4.753	4.801	PV	10	77	0.03%	0.017%
4	5.233	5.214	5.244	VV	30	439	0.18%	0.097%
5	5.592	5.567	5.614	VV	26	496	0.20%	0.110%
6	5.640	5.614	5.664	VV	26	494	0.20%	0.109%
7	5.674	5.664	5.686	VV	18	144	0.06%	0.032%
8	5.702	5.686	5.734	VV	15	349	0.14%	0.077%
9	5.754	5.734	5.773	VV	16	250	0.10%	0.055%
10	5.780	5.773	5.817	VV	23	329	0.13%	0.073%
11	5.836	5.817	5.859	VV	17	302	0.12%	0.067%
12	5.871	5.859	5.900	PV	19	282	0.12%	0.063%
13	5.928	5.900	5.957	VV	22	400	0.16%	0.089%
14	5.964	5.957	6.015	VV	20	370	0.15%	0.082%
15	6.048	6.015	6.087	VV	22	514	0.21%	0.114%
16	6.148	6.087	6.180	VV	24	823	0.34%	0.182%
17	6.217	6.180	6.257	VV	24	633	0.26%	0.140%
18	6.386	6.257	6.581	VV	346	25037	10.25%	5.553%
19	6.593	6.581	6.609	VV	15	149	0.06%	0.033%
20	6.638	6.609	6.686	VV	15	429	0.18%	0.095%
21	6.696	6.686	6.718	VV	18	271	0.11%	0.060%
22	6.735	6.718	6.765	VV	20	398	0.16%	0.088%
23	6.794	6.765	6.842	VV	31	628	0.26%	0.139%

24	6.927	6.842	6.961	VV	32	788	0.32%	0.175%
25	6.991	6.961	7.031	VV	24	511	0.21%	0.113%
26	7.102	7.031	7.120	VV	28	898	0.37%	0.199%
27	7.132	7.120	7.162	VV	21	367	0.15%	0.081%
28	7.192	7.162	7.206	VV	33	454	0.19%	0.101%
29	7.264	7.206	7.299	VV	36	940	0.39%	0.209%
30	7.321	7.299	7.351	PV	19	406	0.17%	0.090%
31	7.435	7.351	7.454	VV	37	1332	0.55%	0.295%
32	7.556	7.454	7.590	VV	37	2155	0.88%	0.478%
33	7.609	7.590	7.625	VV	51	636	0.26%	0.141%
34	7.641	7.625	7.684	VV	35	714	0.29%	0.158%
35	7.739	7.684	7.772	VV	28	1067	0.44%	0.237%
36	7.796	7.772	7.849	VV	31	790	0.32%	0.175%
37	7.900	7.849	7.919	VV	31	872	0.36%	0.193%
38	8.065	7.919	8.189	VV	169	17016	6.97%	3.774%
39	8.201	8.189	8.327	VV	113	8235	3.37%	1.826%
40	8.342	8.327	8.512	VV	105	8004	3.28%	1.775%
41	8.534	8.512	8.623	VV	48	1742	0.71%	0.386%
42	8.634	8.623	8.657	VV	29	395	0.16%	0.088%
43	8.799	8.657	9.028	VV	4220	244182	100.00%	54.156%
44	9.046	9.028	9.138	VV	45	2459	1.01%	0.545%
45	9.152	9.138	9.233	VV	45	1700	0.70%	0.377%
46	9.287	9.233	9.310	VV	31	1230	0.50%	0.273%
47	9.349	9.310	9.451	VV	37	2093	0.86%	0.464%
48	9.466	9.451	9.483	VV	24	406	0.17%	0.090%
49	9.528	9.483	9.542	VV	28	774	0.32%	0.172%
50	9.558	9.542	9.592	VV	33	659	0.27%	0.146%
51	9.654	9.592	9.748	VV	37	2067	0.85%	0.458%
52	9.766	9.748	9.823	VV	38	1068	0.44%	0.237%
53	9.867	9.823	9.928	VV	35	1712	0.70%	0.380%
54	9.941	9.928	9.981	VV	34	814	0.33%	0.181%
55	9.991	9.981	10.061	VV	36	1107	0.45%	0.246%
56	10.076	10.061	10.101	VV	19	375	0.15%	0.083%
57	10.116	10.101	10.155	VV	21	523	0.21%	0.116%
58	10.170	10.155	10.187	VV	21	292	0.12%	0.065%
59	10.264	10.187	10.282	VV	52	1482	0.61%	0.329%
60	10.397	10.282	10.553	VV	112	12075	4.95%	2.678%
61	10.636	10.553	10.763	VV	58	4808	1.97%	1.066%
62	10.791	10.763	10.825	VV	30	883	0.36%	0.196%

63	10.858	10.825	10.876	VV	42	851	0.35%	0.189%
64	10.888	10.876	10.930	VV	21	524	0.21%	0.116%
65	10.990	10.930	11.031	VV	25	995	0.41%	0.221%
66	11.065	11.031	11.084	VV	29	583	0.24%	0.129%
67	11.162	11.084	11.182	VV	25	1045	0.43%	0.232%
68	11.228	11.182	11.284	VV	28	1031	0.42%	0.229%
69	11.293	11.284	11.315	VV	26	325	0.13%	0.072%
70	11.328	11.315	11.368	VV	27	549	0.22%	0.122%
71	11.429	11.368	11.464	VV	39	1218	0.50%	0.270%
72	11.486	11.464	11.507	VV	20	472	0.19%	0.105%
73	11.560	11.507	11.582	VV	27	853	0.35%	0.189%
74	11.614	11.582	11.646	VV	38	835	0.34%	0.185%
75	11.664	11.646	11.682	PV	20	276	0.11%	0.061%
76	11.721	11.682	11.796	VV	39	1462	0.60%	0.324%
77	11.820	11.796	11.841	VV	27	467	0.19%	0.104%
78	11.899	11.841	11.993	VV	43	2106	0.86%	0.467%
79	12.022	11.993	12.061	VV	19	629	0.26%	0.139%
80	12.078	12.061	12.097	VV	16	356	0.15%	0.079%
81	12.120	12.097	12.152	VV	28	659	0.27%	0.146%
82	12.170	12.152	12.184	VV	27	393	0.16%	0.087%
83	12.200	12.184	12.220	VV	23	361	0.15%	0.080%
84	12.246	12.220	12.277	PV	33	553	0.23%	0.123%
85	12.327	12.277	12.339	VV	26	617	0.25%	0.137%
86	12.389	12.339	12.424	VV	25	788	0.32%	0.175%
87	12.444	12.424	12.461	VV	19	241	0.10%	0.054%
88	12.485	12.461	12.523	VV	31	602	0.25%	0.133%
89	12.549	12.523	12.573	VV	29	516	0.21%	0.114%
90	12.616	12.573	12.643	VV	28	608	0.25%	0.135%
91	12.712	12.643	12.784	PV	40	2056	0.84%	0.456%
92	12.795	12.784	12.810	VV	35	402	0.16%	0.089%
93	12.912	12.810	13.046	VV	77	5575	2.28%	1.236%
94	13.056	13.046	13.130	VV	43	1530	0.63%	0.339%
95	13.198	13.130	13.287	VV	66	3432	1.41%	0.761%
96	13.303	13.287	13.314	PV	27	247	0.10%	0.055%
97	13.363	13.314	13.413	VV	32	999	0.41%	0.222%
98	13.429	13.413	13.449	VV	23	304	0.12%	0.068%
99	13.462	13.449	13.478	VV	28	252	0.10%	0.056%
100	13.501	13.478	13.516	VV	22	396	0.16%	0.088%
101	13.541	13.516	13.577	VV	28	657	0.27%	0.146%

102	13.610	13.577	13.678	VV	32	1188	0.49%	0.263%
103	13.726	13.678	13.757	VV	29	707	0.29%	0.157%
104	13.783	13.757	13.875	VV	49	2149	0.88%	0.477%
105	13.968	13.875	13.985	VV	55	3092	1.27%	0.686%
106	14.120	13.985	14.293	VV	196	19615	8.03%	4.350%
107	14.326	14.293	14.342	VV	23	464	0.19%	0.103%
108	14.387	14.342	14.414	VV	37	682	0.28%	0.151%
109	14.451	14.414	14.514	VV	33	933	0.38%	0.207%
110	14.542	14.514	14.630	VV	31	909	0.37%	0.202%
111	14.702	14.630	14.735	VV	17	673	0.28%	0.149%
112	14.752	14.735	14.772	PV	15	189	0.08%	0.042%
113	14.782	14.772	14.799	VV	18	143	0.06%	0.032%
114	14.880	14.799	14.950	VV	30	1081	0.44%	0.240%
115	15.052	14.950	15.069	VV	54	1954	0.80%	0.433%
116	15.080	15.069	15.153	VV	50	1434	0.59%	0.318%
117	15.168	15.153	15.197	VV	29	410	0.17%	0.091%
118	15.219	15.197	15.236	VV	15	250	0.10%	0.055%
119	15.256	15.236	15.281	VV	23	347	0.14%	0.077%
120	15.379	15.281	15.447	VV	47	2626	1.08%	0.582%
121	15.501	15.447	15.601	VV	36	1944	0.80%	0.431%
122	15.615	15.601	15.650	VV	17	282	0.12%	0.062%
123	15.742	15.650	15.773	VV	34	912	0.37%	0.202%
124	15.794	15.773	15.824	VV	18	346	0.14%	0.077%
125	15.847	15.824	15.876	VV	18	264	0.11%	0.058%
126	15.910	15.876	15.931	VV	30	572	0.23%	0.127%
127	15.967	15.931	15.991	VV	45	906	0.37%	0.201%
128	16.016	15.991	16.042	VV	37	610	0.25%	0.135%
129	16.196	16.042	16.277	PV	77	4499	1.84%	0.998%
130	16.291	16.277	16.333	VV	30	549	0.22%	0.122%
131	16.385	16.333	16.447	PV	31	1500	0.61%	0.333%
132	16.465	16.447	16.518	VV	38	1234	0.51%	0.274%
133	16.535	16.518	16.558	VV	35	397	0.16%	0.088%
134	16.628	16.558	16.689	VV	48	1157	0.47%	0.257%
Sum of corrected areas:						450891		