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YOUR LAB. YOUR DATA. PERFECTLY MANAGED

NEMC 2025 Laboratory Informatics Sessions

Improving Non-Routine Test Data Management in Environmental Labs

August 5, 2025



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Introduction

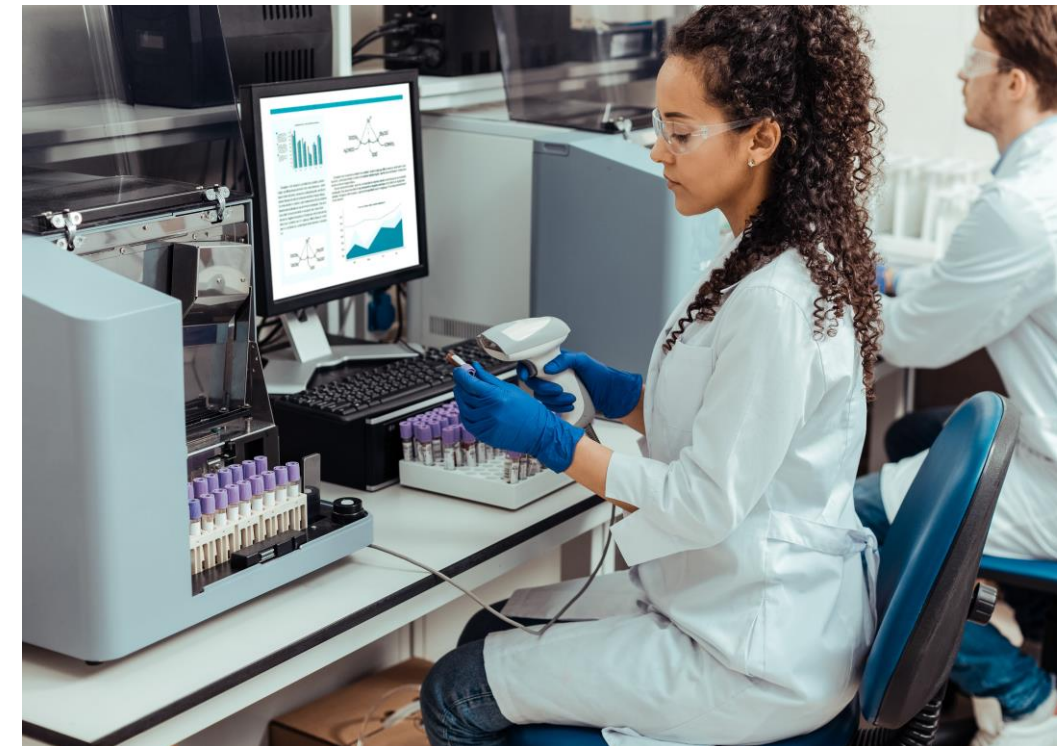
Environmental laboratories are equipped to perform a wide range of standardized analyses across various matrices. While routine tests are well-supported by existing Laboratory Information Management Systems (LIMS), specialized analyses—such as flashpoint, corrosivity, chlorophyll, and marine organism testing—often lack the same level of workflow integration.

This presentation explores the data management challenges associated with non-routine testing and introduces solutions that enhance traceability, efficiency, and regulatory compliance.



Common Laboratory Testing

- Environmental laboratories frequently perform standard tests across various matrices:
 - - Wet chemistry for inorganic substances
 - - Metals content analysis
 - - Volatile and semi-volatile organic analysis
- However, challenges can arise with non-routine test data collection and storage.



Common Laboratory Testing (BOD5)

- While SDMS addresses non-routine testing gaps, it is equally effective in supporting routine, high-volume analyses—offering efficiency and consistency across all workflows.

Home

File

Edit

Insert

Page Layout

Formulas

Export To Excel

Exit

Complete

Save

New Collaboration

Roll Back

Delete

Clear

Edit

Refresh

Grid

Retrieve

Analytical Batch

Import Files

Apply Formula

Generate Reports

File

Mode: View Edit Enter

Test: BOD Batch Number: 241001008 Analytical Batch: 25070905

SDMS Result Sheet Analytical Batch Results

Q49

Biochemical Oxygen Demand																										
Test	BOD	Setup Analyst	user1	Incubator ID	1039871	Readback Analyst	user1	Incubator ID	1039871																	
Method	SM 5210 B, 2011	DO Meter ID	123456	Date in Incubator	10/02/2024	DO Meter ID	123456	Date out of Incubator	10/07/2024																	
Batch # or Run ID	241001008	Calibration Date/Time	10/2/24 8:15	Time in Incubator	15:33	Calibration Date/Time	10/7/24 8:15	Time out of Incubator	15:33																	
Analysis Notation:																										
QType	Lab SampleID	Test Position	Sample Date	Bottle #	Sample pH	Chlorine Present?	Pre-Dilution	Sample Volume (mL)	Seed Volume (mL)	Initial Temp (°C)	Initial D.O. (mg/L)	Final Temp (°C)	Final D.O. (mg/L)	Dil%	O2 Depletion (mg/L)	Seed Correction	Seed Factor (mg/L)	BOD (mg/L)	Numeric Result (mg/L)	Final Result (mg/L)	RL	RPD %	Pass / Fail	Criteria	RPD CtrlLimit %	SysSampleCode
Blank	BLK240057	2	10/1/2024	1	7	N															2				5 - 1	BLK240057
Control	CTRL-100124001	1	10/1/2024	2	7.1	N															2				-	CTRL-100124001
Replicate	24-0088-R2	1	10/2/2024	3	7.2	N															2	0.00		RPD	5 - 1	24-0088-R2
SAMPLE	24-0083	1	10/1/2024	4	7	N															2	0.00			-	24-0083
SAMPLE	SEED-2410010001	1	10/1/2024	5	7	N															2				-	SEED-2410010001
SAMPLE	24-0088	3	10/2/2024	6	7.2	N															2	0.00			-	24-0088

Import Instrument Files

C:\BTSOFT

Template: BOD Analytical BatchID: 25070905

Upload Progress

Imported Files

File Name	Size	Pages	Date Added	Remove
BOD 241004008	33 KB	1	09 Jul 2025 12:33	X

Record 1 of 1

Common Laboratory Testing (BOD5)

- SDMS does not have to replace existing systems but complements any LIMS by extending its capability to manage flexible, template-driven, and traceable data entry.

SDMS ResultEntry																									
File Edit Insert Page Layout Formulas																									
Export To Excel Exit Complete Save New Calibration Roll Back Delete Clear Edit Refresh Bind Grid Retrieve Analytical Batch Import Files Apply Formula Generate Reports																									
File																									
Mode View Edit Enter Test BOD Batch Number 241001008 Analytical Batch 25070905																									
SDMS Result Sheet Analytical Batch Results																									
Q49																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AB AC AD AE																									
Biochemical Oxygen Demand																									
Test BOD Setup Analyst user1 Incubator ID 1039871 Readback Analyst user1 Incubator ID 1039871																									
Method SM 5210 B, 2011 DO Meter ID 123456 Date in Incubator 10/02/2024 DO Meter ID 123456 Date out of Incubator 10/07/2024																									
Batch # or Run ID 241001008 Calibration Date/Time 10/2/24 8:15 Time in Incubator 15:33 Calibration Date/Time 10/7/24 8:15 Time out of Incubator 15:33																									
Calibration Slope 62.1 Calibration Slope 64																									
Analysis Notation:																									
QCType Lab SampleID Test Position Sample Date Bottle # Sample pH Chlorine Present? Pre-Dilution Sample Volume (mL) Seed Volume (mL) Initial Temp (°C) Initial D.O. (mg/L) Final Temp (°C) Final D.O. (mg/L) Dil% O2 Depletion (mg/L) Seed Correction Seed Factor (mg/L) BOD (mg/L) Numeric Result (mg/L) Final Result (mg/L) RL RPD % Pass / Fail Criteria RPD CtrlLimit % SysSampleCode																									
Blank BLK240057 2 10/1/2024 1 7 N 0.05 300 0 19.60 5.00 20.20 5.00 0.00 0.000 0.00 0.00 0.00 0.00 <2 2																									
Control CTRL-100124001 1 10/1/2024 2 7.1 N 0.05 300 0 19.60 6.00 20.00 4.00 100.00 2.00 0.000 0.00 2.00 2.00 2.0 2																									
Replicate 24-0088-R2 1 10/2/2024 3 7.2 N 2.5 6 3 19.60 7.00 20.10 3.00 2.00 4.00 0.320 0.96 152.00 152.00 152.0 2 0.00 RPD 5 - 1 24-0088-R2																									
SAMPLE 24-0083 1 10/1/2024 4 7 N 0.5 30 3 19.60 8.00 21.00 2.00 10.00 6.00 0.320 0.96 50.40 50.40 50.4 2 0.00 24-0083																									
SAMPLE SEED-2410010001 1 10/1/2024 5 7 N 0.6 25 3 19.60 9.00 20.20 1.00 8.33 8.00 0.000 96.00 96.00 96.0 2 SEED-2410010001																									
SAMPLE 24-0088 3 10/2/2024 6 7.2 N 2.5 6 3 19.60 10.00 20.00 6.00 2.00 4.00 0.320 0.96 152.00 152.00 152.0 2 0.00 24-0088																									

Common Laboratory Testing (TSS/MLSS)

- SDMS directly contributes to laboratory digitalization by eliminating paper-based processes, enhancing data integrity, and simplifying audits.

RawData Review

Home

Export

Roll Back

Review

Update

Edit

Cancel

Clear

Audit Summary

Files

Mode View Enter

Test TSS

LIMS Batch ID 241001019

Text Search Enter text to search...

Result Pending to Review

	Test	Template	Detail	ABD	Remarks	Reviewed By	Date Reviewed
I	TSS	TSS		25070904		admin	07/09/2025 12:10

fmResul/BatchReviewSpreadsheet

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	
1	Total Suspended Solids (TSS) and Mixed Liquor Suspended Solids (MLSS)																													
2																														
3	Method	SM 2540 D, 2011			Setup Date	7/9/25 11:33			Readback Analyst	user1			Date Time In Oven	10/3/24 11:13			Date Time In Oven	10/3/24 16:15			Analyst	user1								
4	Batch #	241001019			Setup Analyst	user1			Date Time Out of Oven	10/3/24 10:31			Date Time Out of Oven	10/3/24 15:47			Date Time Out of Oven	10/4/24 7:30			Date Time Analyzed	10/2/24 10:15								
5	File				Balance ID	1944388			Desiccator ID	720704			Desiccator ID	720724			Desiccator ID	720724												
6					Oven ID	720719							Readback Date Time	10/3/24 16:02			Readback Date Time	10/4/24 8:15												
7					Steam Table ID	7206598																								
8					Date/Time in Oven	10/2/24 10:30																								
9	QCType	Lab SampleID	Test Position	Sample Date	Setup Date/Time	Filter ID	Sample Volume (mL)	Filter Weight (g)	Readback Date/Time	Readback Wt (g)	Constant Wt Readback 1 Date/Time	Constant Wt Readback 1 (g)	Difference 1 (mg)	WtBack 1 Pass/Fail	Constant Wt Readback 2 Date/Time	Constant Wt Readback 2 (g)	Difference 2 (mg)	Dried Residue Wt.(mg)	WtBack 2 Pass/Fail	Numeric Result (mg/L)	Result (mg/L)	RL	Spike Amount	RPD %	Pass /Fail	Criteria	Rec %	RPD CtrlLimit %	Rec CtrlLimit %	
10	Blank	BLK240068	1	10/01/24	10/2/24 10:15	1	1000	0.0123	10/3/24 10:53	0.0124	10/3/24 16:02	0.0124	0.0	PASS				0.1		0.1	<2.5	2.5	100					-	50-100	50-100
11	Control	CTRL-100124006	1	10/01/24	10/2/24 10:16	2	1000	0.0124	10/3/24 10:55	0.0125	10/3/24 16:03	0.0126	0.1	PASS				0.2		0.2	<2.5	2.5					-	-	-	
12	Replicate	24-0089-R1	1	10/02/24	10/2/24 10:17	3	1000	0.0125	10/3/24 10:57	0.0321	10/3/24 16:04	0.0322	0.1	PASS				19.7		19.7	19.7	2.5	150	6.4	PASS	Difference		-	50-100	50-100
13	SAMPLE	24-0077	1	09/29/24	10/2/24 10:19	4	1000	0.0126	10/3/24 10:59	0.0223	10/3/24 16:05	0.0225	0.2	PASS				9.9		9.9	9.9	2.5					-	-	-	
14	SAMPLE	24-0089	1	10/02/24	10/2/24 10:20	5	1000	0.0123	10/3/24 11:01	0.0325	10/3/24 16:06	0.0328	0.3	PASS				20.5		20.5	20.5	2.5					-	-	-	
15	SAMPLE	24-0090	2	10/02/24	10/2/24 10:21	6	1000	0.0124	10/3/24 11:03	0.0452	10/3/24 16:07	0.0452	0.0	PASS				32.8		32.8	32.8	2.5					-	-	-	
16	SAMPLE	24-0101	2	10/02/24	10/2/24 10:22	7	1000	0.0125	10/3/24 11:05	0.0521	10/3/24 16:08	0.0523	0.2	PASS				39.8		39.8	39.8	2.5					-	-	-	
17	SAMPLE	24-0102	2	10/02/24	10/2/24 10:25	8	1000	0.0126	10/3/24 11:07	0.0326	10/3/24 16:09	0.0325	0.1	PASS				19.9		19.9	19.9	2.5					-	-	-	
18	SAMPLE	24-0083	3	10/01/24	10/2/24 10:26	9	1000	0.0124	10/3/24 11:09	0.0425	10/3/24 16:10	0.0431	0.6	FAIL	10/4/24 8:15	0.0432	0.1	30.8	PASS	30.8	30.8	2.5					-	-	-	
19	SAMPLE	24-0088	8	10/02/24	10/2/24 10:27	10	1000	0.0125	10/3/24 11:11	0.0246	10/3/24 16:11	0.0247	0.1	PASS				12.2		12.2	12.2	2.5					-	-	-	
20	Replicate	24-0088	8	09/29/24	10/2/24 10:29	11	1000	0.0126	10/3/24 11:13	0.0364	10/3/24 16:12	0.0366	0.2	PASS				24.0		24.0	24.0	2.5		6.4	PASS	Difference		-	-	

- Workflows such as DF selection, duplicate tracking, and review steps can be configured per template—no code required.

SDMS Result Entry

HomeFileEditInsertPage LayoutFormulas

Export To Excel

Exit

Complete

Save

New Calibration

Roll Back

Delete

Clear

Edit

Refresh

Bind Grid

Retrieve

Analytical Batch

Import Files

Apply Formula

Generate Reports

File

File

Data Exchange

Reporting

ModeViewEditEnterTest: TSSBatch Number: 241001019Analytical Batch:

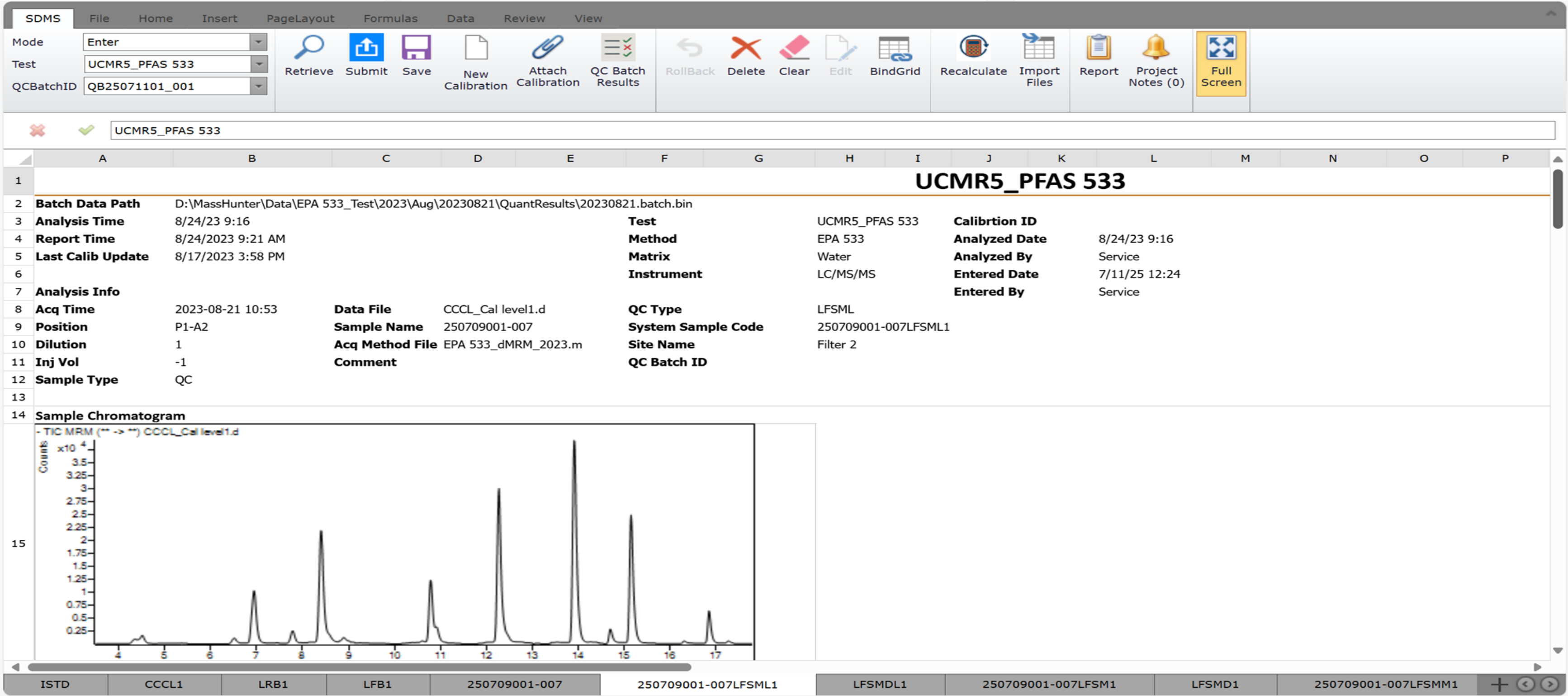
SDMS Result SheetAnalytical Batch Results

Q18K✓0.0432

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1	Total Suspended Solids (TSS) and Mixed Liquor Suspended Solids (MLSS)																												
2	Batch Information			Setup				Readback 1				Constant Weight Readback 1				Constant Weight Readback 2				Final Result									
3	Method	SM 2540 D, 2011			Setup Date	7/9/25 11:33			Readback Analyst	user1			Date Time In Oven	10/3/24 11:13		Date Time In Oven	10/3/24 16:15		Analyst	user1									
4	Batch #	241001019			Setup Analyst	user1			Date Time Out of Oven	10/3/24 10:31			Date Time Out of Oven	10/3/24 15:47		Date Time Out of Oven	10/4/24 7:30		Date Time Analyzed	10/2/24 10:15									
5	File				Balance ID	1944388			Desiccator ID	720704			Desiccator ID	720724		Desiccator ID	720724												
6					Oven ID	720719							Readback Date Time	10/3/24 16:02		Readback Date Time	10/4/24 8:15												
7					Steam Table ID	7206598																							
8					Date/Time In Oven	10/2/24 10:30																							
9	QCType	Lab SampleID	Test Position	Sample Date	Setup Date/Time	Filter ID	Sample Volume (mL)	Filter Weight (g)	Readback Date/Time	Readback Wt (g)	Constant Wt Readback 1 Date/Time	Constant Wt Readback 1 (g)	Difference 1 (mg)	WtBack 1 Pass/Fail	Constant Wt Readback 2 Date/Time	Constant Wt Readback 2 (g)	Difference 2 (mg)	Dried Residue Wt.(mg)	WtBack 2 Pass/Fail	Numeric Result (mg/L)	Result (mg/L)	RL	Spike Amount	RPD %	Pass /Fail	Criteria	Rec %	RPD CtrlLimit %	Rec CtrlLimit %
10	Blank	BLK240068	1	10/01/24	10/2/24 10:15	1	1000	0.0123	10/3/24 10:53	0.0124	10/3/24 16:02	0.0124	0.0	PASS				0.1		0.1	<2.5	2.5	100					50-100	50-100
11	Control	CTRL-100124006	1	10/01/24	10/2/24 10:16	2	1000	0.0124	10/3/24 10:55	0.0125	10/3/24 16:03	0.0126	0.1	PASS				0.2		0.2	<2.5	2.5						-	-
12	Replicate	24-0089-R1	1	10/02/24	10/2/24 10:17	3	1000	0.0125	10/3/24 10:57	0.0321	10/3/24 16:04	0.0322	0.1	PASS				19.7		19.7	19.7	2.5	150	6.4	PASS	Difference		50-100	50-100
13	SAMPLE	24-0077	1	09/29/24	10/2/24 10:19	4	1000	0.0126	10/3/24 10:59	0.0223	10/3/24 16:05	0.0225	0.2	PASS				9.9		9.9	9.9	2.5						-	-
14	SAMPLE	24-0089	1	10/02/24	10/2/24 10:20	5	1000	0.0123	10/3/24 11:01	0.0325	10/3/24 16:06	0.0328	0.3	PASS				20.5		20.5	20.5	2.5						-	-
15	SAMPLE	24-0090	2	10/02/24	10/2/24 10:21	6	1000	0.0124	10/3/24 11:03	0.0452	10/3/24 16:07	0.0452	0.0	PASS				32.8		32.8	32.8	2.5						-	-
16	SAMPLE	24-0101	2	10/02/24	10/2/24 10:22	7	1000	0.0125	10/3/24 11:05	0.0521	10/3/24 16:08	0.0523	0.2	PASS				39.8		39.8	39.8	2.5						-	-
17	SAMPLE	24-0102	2	10/02/24	10/2/24 10:25	8	1000	0.0126	10/3/24 11:07	0.0326	10/3/24 16:09	0.0325	0.1	PASS				19.9		19.9	19.9	2.5						-	-
18	SAMPLE	24-0083	3	10/01/24	10/2/24 10:26	9	1000	0.0124	10/3/24 11:09	0.0425	10/3/24 16:10	0.0431	0.6	FAIL	10/4/24 8:15	0.0432	0.1	30.8	PASS	30.8	30.8	2.5						-	-
19	SAMPLE	24-0088	8	10/02/24	10/2/24 10:27	10	1000	0.0125	10/3/24 11:11	0.0246	10/3/24 16:11	0.0247	0.1	PASS				12.2		12.2	12.2	2.5						-	-
20	Replicate	24-0088	8	09/29/24	10/2/24 10:29	11	1000	0.0126	10/3/24 11:13	0.0364	10/3/24 16:12	0.0366	0.2	PASS				24.0		24.0	24.0	2.5		6.4	PASS	Difference		-	-

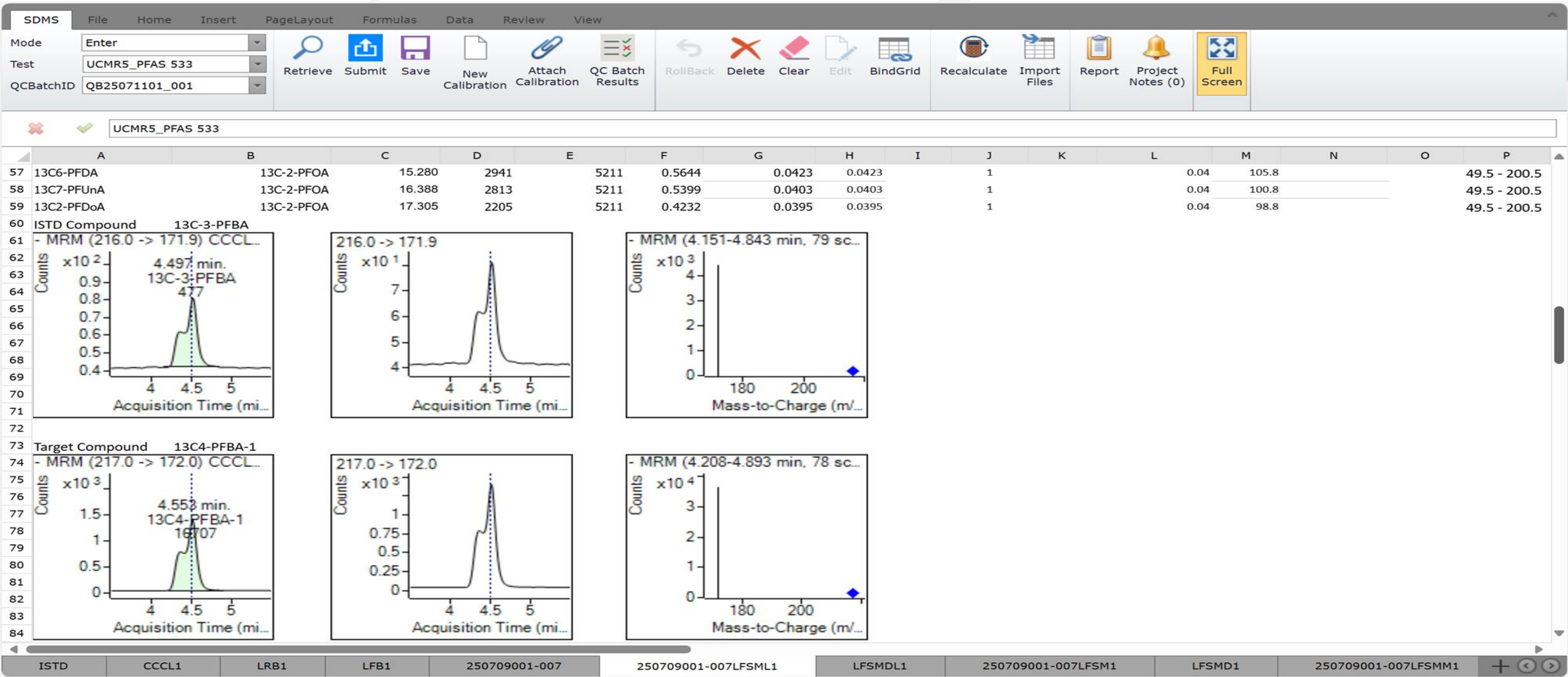
Common Laboratory Testing (UCMR5 PFAS 533)

- Users can create and deploy customized result entry templates tailored to their workflows and regulations—without any programming effort.



Common Laboratory Testing (UCMR5 PFAS 533)

- Automatic flagging, built-in formulas, and configurable validation rules make SDMS a quality-centric system suitable for regulated environments.



Challenges with Non-Routine Tests

Examples of non-routine tests:

- - Phytoplankton
- - Particle Size Distribution
- - Chlorophyll
- - Ocean Currents

Issues:

- - Lack of specific workflows in LIMS
- - Inefficient and non-traceable data methods
- - Use of customized spreadsheets leads to errors and non-compliance

Solution – Sample Data Management System (SDMS)

Key benefits of SDMS:

- - LIMS-agnostic system for managing all lab testing data
- - Automates electronic data capture
- - Replaces spreadsheets with reliable processes
- - Supports informatics-style solutions for non-routine analyses



Challenges with Non-Routine Tests (Ex: Marine Organisms)

- Every action—entry, edit, approval—is logged and traceable, ensuring data accountability and regulatory readiness.

BT LIMS

LIMS

File

Home

Insert

Page Layout

Formulas

View

Export to Excel

Exit

Complete

Save

New Calibration

Average

Roll Back

Delete

Clear

Edit

Refresh

Bind Grid

Retrieve

Insert to LIMS

Import Files

Apply Formula

My Pending Task

Result Batch Review

Generate Reports

Report View

Template Builder

Log Off

Mode

View

Enter

Review

Date Query

1M

3M

6M

1Y

ALL

Analytical Batch

AB24090511_006

Sample Query

Pending Samples

SYSSAMPLECODE	STATUS
MB1	Entered
1070889-01	Entered
1070889-02	Entered
1070889-03	Entered
1070889-04	Entered
1070889-05	Entered
1070889-06	Entered

SDMS Result Sheet

Analytical Batch Results

34

10

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
1	Phytoplankton Result Entry																			
2	Job ID	1070889	Test	Phytoplankton		Analyzed Date		8/29/24 19:15		Type of Count		Strip								
3	Sample Name	Lake Cherokee-Raw	Method	SM 10200F-2011		Analyzed By		DAM		Number Counted		4								
4	SysSampleCode	1070889-01	Initial Vol (ml)	7		Objective Lens		10		Whipple Measured (mm)		1.00								
5	Instrument ID	Scope 1	Final Vol (ml)	10		Optical Lens		10		Multiplication Factor		5.00								
6	Client	City of Longview WTP	Dilution Factor	1.43		Whipple Grid Width (mm)		1		Comment:										
7	Project ID	Phytoplankton			Whipple Grid Area (mm2)		1													
8	Organism Identification	Strip				Total Organisms Counted	Cells/ml	Biovolume $\mu\text{m}^3/\text{mL}$	Input Parameters and Constant Values											
9		1	2	3	4				a	b	c	d	d1	d2	d1/2	d4/5	h	z	z1/:	
10	Achnanthes					0	0.00	0												
11	Asterionella					0	0.00	0												
12	Cyclotella	8	7	4	5	24	172.00	0												
13	Diatoma					0	0.00	0												
14	Gyrosigma					0	0.00	0												
15	Melosira					0	0.00	0												
16	Navicula					0	0.00	0												
17	Nitzschia	2	7	9	4	22	158.00	0												
18	Surirella					0	0.00	0												
19	Synedra					0	0.00	0												
20	Tabellaria					0	0.00	0												
21	Pinnularia					0	0.00	0												
22	Actinastrum					0	0.00	0												
23	Ankistrodesmus		1			1	8.00	0												
24	Chlorella					0	0.00	0												
25	Chlorococcum					0	0.00	0												
26	Chodatella					0	0.00	0												
27	Closteriopsis					0	0.00	0												
28	Cosmarium					0	0.00	0												
29	Closterium					0	0.00	0												

Record 2 of 7

MB1

1070889-01

1070889-02

1070889-03

1070889-04

1070889-05

1070889-06

Challenges with Non-Routine Tests (Ex: Particle Size Distribution)

- SDMS connects instruments, exports to LIMS, and supports EDD/reporting with minimal integration effort.

BT LIMS

LIMS

File

Home

Insert

Page Layout

Formulas

View

Duration 1 Sec

Progress...

Ver

Mode ☒ View ☐ Enter

Date Query ☒ 1M ☐ 3M ☐ 6M ☐ 1Y ☐ ALL

Analytical Batch AB25063001_542

SDMS Result Sheet

Analytical Batch Results

Q29

x

✓

✗

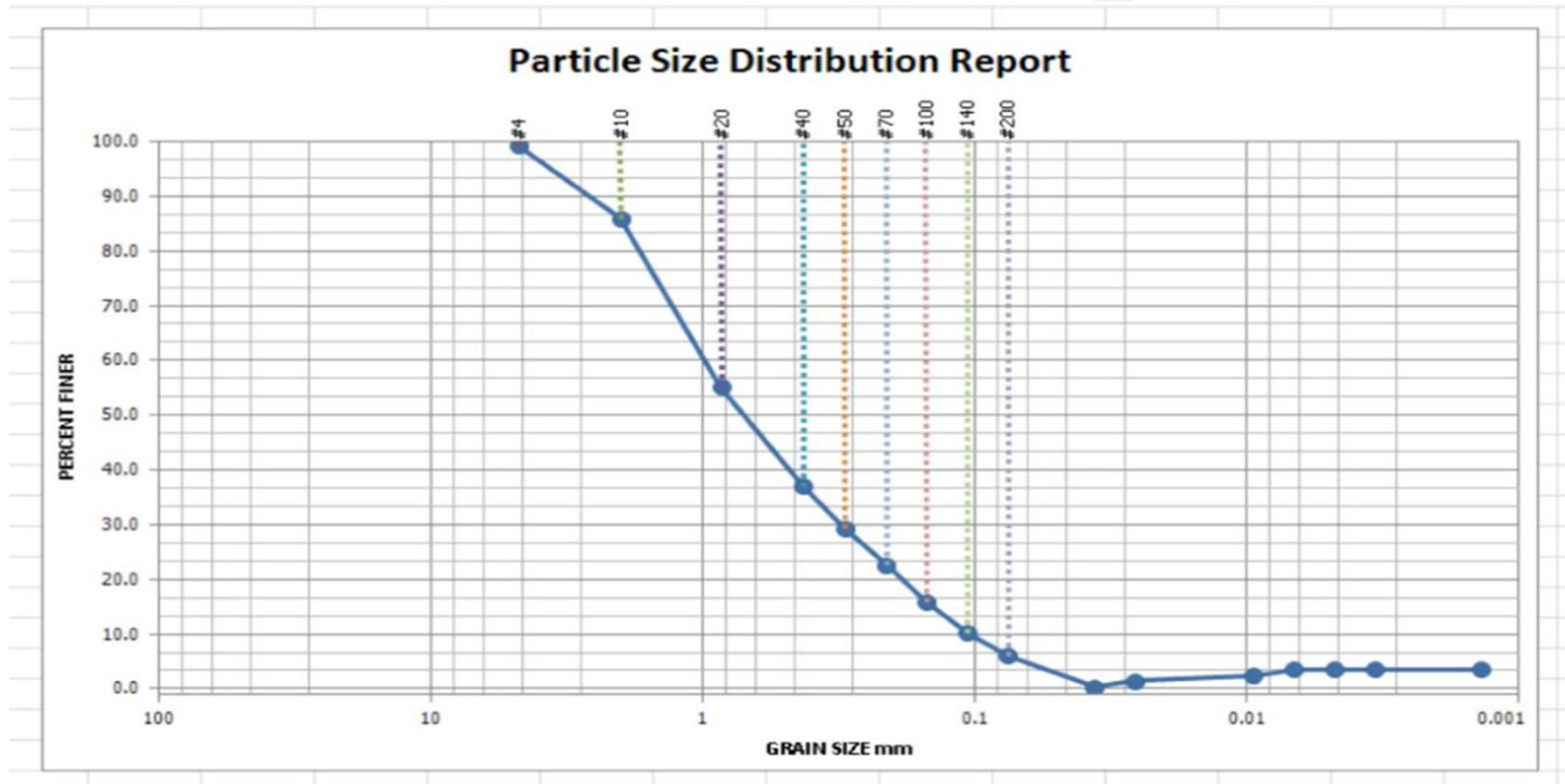
=M30+M29

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Calculations																
2	Sample Weight & Hydrometer	Test Data	Sieve #	Size (mm)	Percent Finer	Weight Retained (g)	Sieve Weight (g)	Difference F-G	Elapsed Time (ET) (min)	Temp (deg. C)	Actual Reading R	Corrected Reading (Rc)	K	Rm	Eff. Depth (L)	Diameter (mm)	Percent Finer (PF)
3	Dry Sample (g)	92.01	4	4.75	99.1	536.90	536.10	0.80	2.00	23.5	4.0	-0.196824829	0.0129	4.5	15.556964	0.03596596	-0.20982924
4		0.00	10	2	85.8	685.44	673.20	12.24	4.00	23.5	3.0	-1.196824829	0.0129	3.5	15.720964	0.02556548	-1.27590025
5	Hygroscopic Moisture, Mh	0.06%	20	0.85	55.0	405.49	377.13	28.36	30.00	23.5	2.0	-2.196824829	0.0129	2.5	15.884964	0.00938376	-2.34197126
6	Composit Correction, Cc	-5.00	40	0.425	36.8	315.47	298.77	16.70	60.00	23.5	1.0	-3.196824829	0.0129	1.5	16.048964	0.00666948	-3.40804226
7	Specific Gravity, GS	2.70	50	0.3	29.2	292.10	285.07	7.03	120.00	23.5	1.0	-3.196824829	0.0129	1.5	16.048964	0.00471604	-3.40804226
8	Moist Weight & Tare (g)	7.80	70	0.21	22.5	278.24	272.08	6.16	240.00	23.5	1.0	-3.196824829	0.0129	1.5	16.048964	0.00333474	-3.40804226
9	Dry Weight & Tare (g)	7.79	100	0.15	15.8	385.01	378.82	6.19	1440.00	23.5	1.0	-3.196824829	0.0129	1.5	16.048964	0.0013614	-3.40804226
10	Tare Weight (g)	1.01	140	0.106	10.1	330.48	325.24	5.24									
11			200	0.075	6.0	330.91	327.10	3.81									
12			Gravel	> 2	14.2	0.00	0.00	0.00									
13			Sand	2 - 0.075	79.9	0.00	0.00	0.00									
14			Coarse sand	2 - 0.425	49.0	0.00	0.00	0.00									
15			Fine sand	0.425 - 0.075	30.9	0.00	0.00	0.00									
16			Silt	0.075 - 0.002	2.5	0.00	0.00	0.00									
17			Clay	< 0.002	3.4	0.00	0.00	0.00									
18				0.035966	0.209829243												
19				0.0255655	1.27590025												
20				0.0093838	2.341971256												
21				0.0066695	3.408042262												
22				0.004716	3.408042262												
23				0.0033347	3.408042262												
24				0.0013614	3.408042262												
25																	

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Challenges with Non-Routine Tests (Ex: Particle Size Distribution)

- Though designed for environmental labs, SDMS applies to many laboratory sectors, including Consumer Products, Food, Agriculture, and Industrial testing.



Conclusion and Potential Next Steps

Summary:

- Non-routine and specialized testing are critical yet often overlooked aspects of laboratory data management.
- Traditional methods like spreadsheets create inefficiencies, risk errors, and hinder compliance.
- Implementing an SDMS provides a scalable, reliable, and LIMS-independent solution for managing all test data.

Next Steps:

1. Assess your lab's current data collection processes.
2. Identify gaps in non-routine test data workflows.
3. Explore SDMS solutions that integrate with your existing systems to improve compliance and traceability.