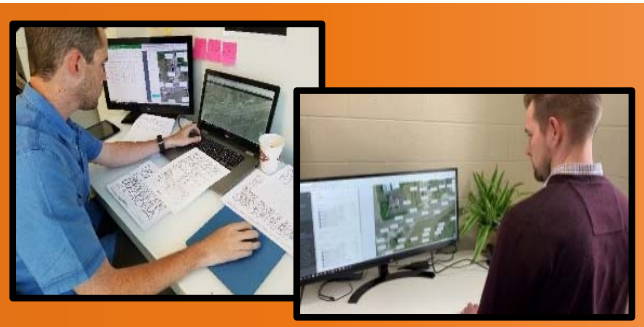
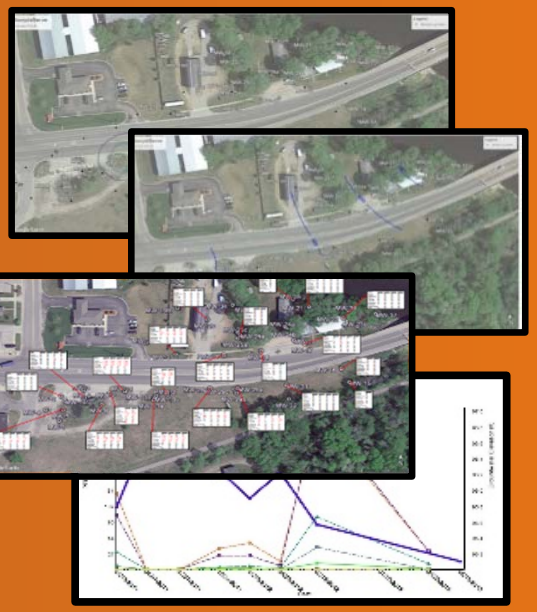
SampleServe

Environmental Sample Collection, Tracking & Digital Chain-of-Custody For Laboratories

Russell Schindler
231-218-7955
russell@sampleserve.com

Platform of Connected Software and Mobile Apps

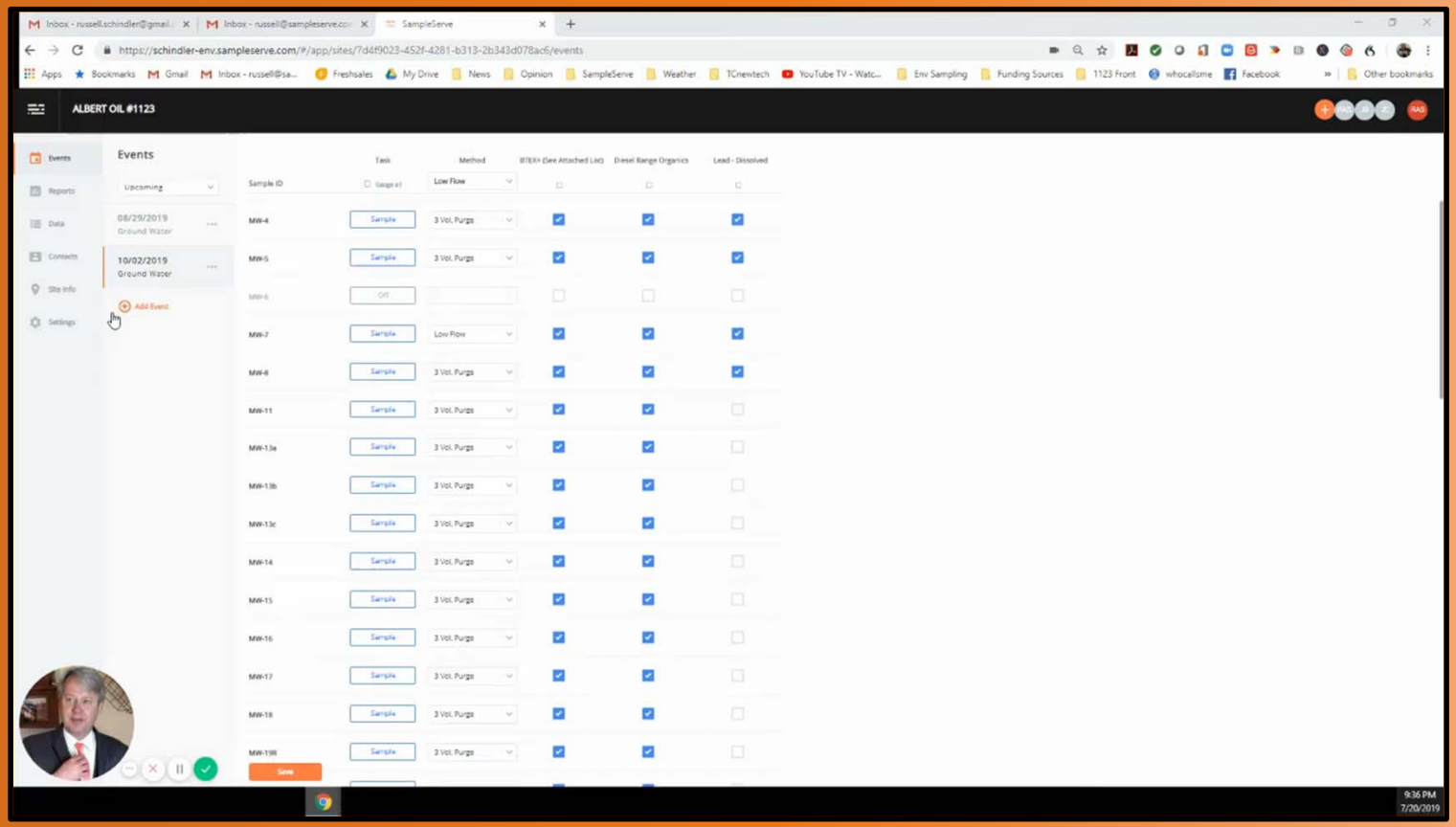




GET IT ON Google Play

4 Parts To The Platform

1 -



Project Management Tool

4 Parts To The Platform

2 -

Field App - QR Code Label Printing

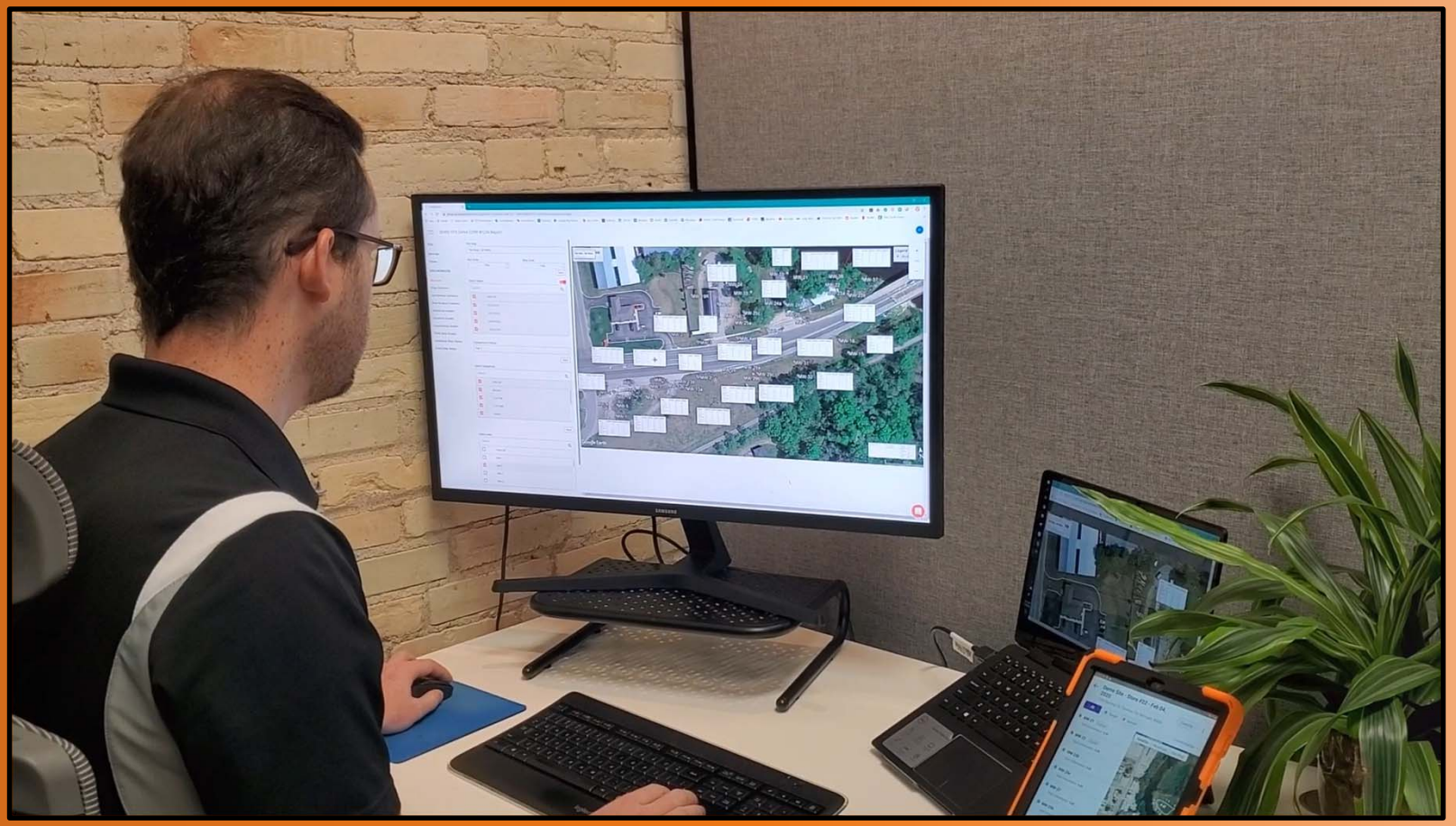
4 Parts To The Platform

3 -

Lab App – Logging Samples

4 Parts To The Platform

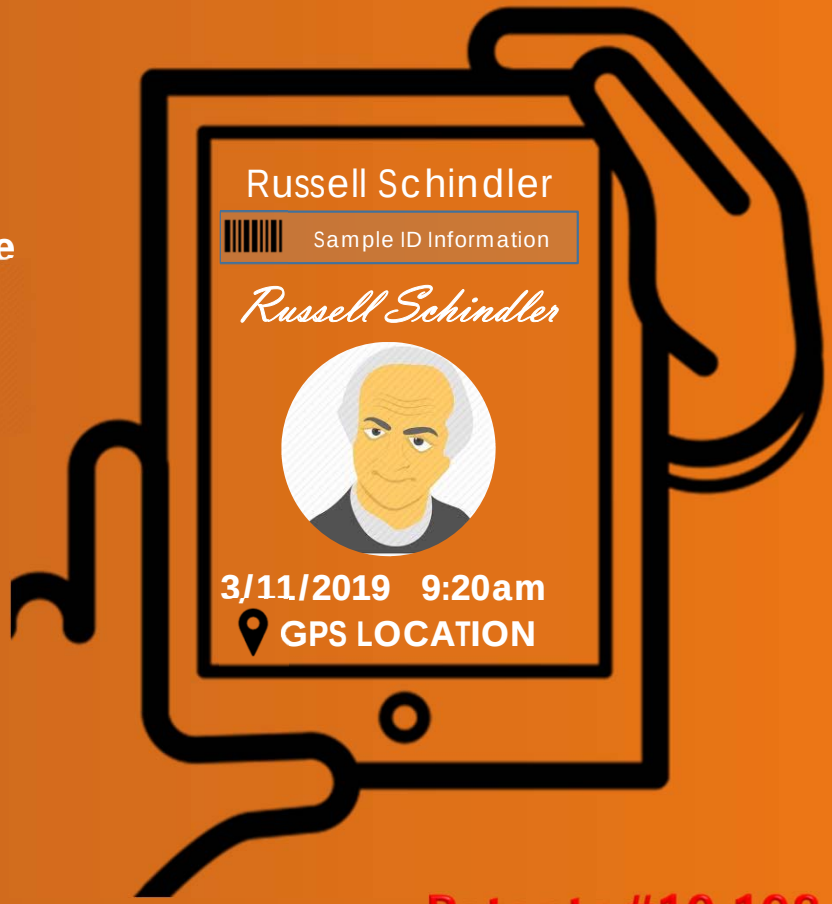
4 -



Report - Generator

How Digital Chain-Of-Custody Works

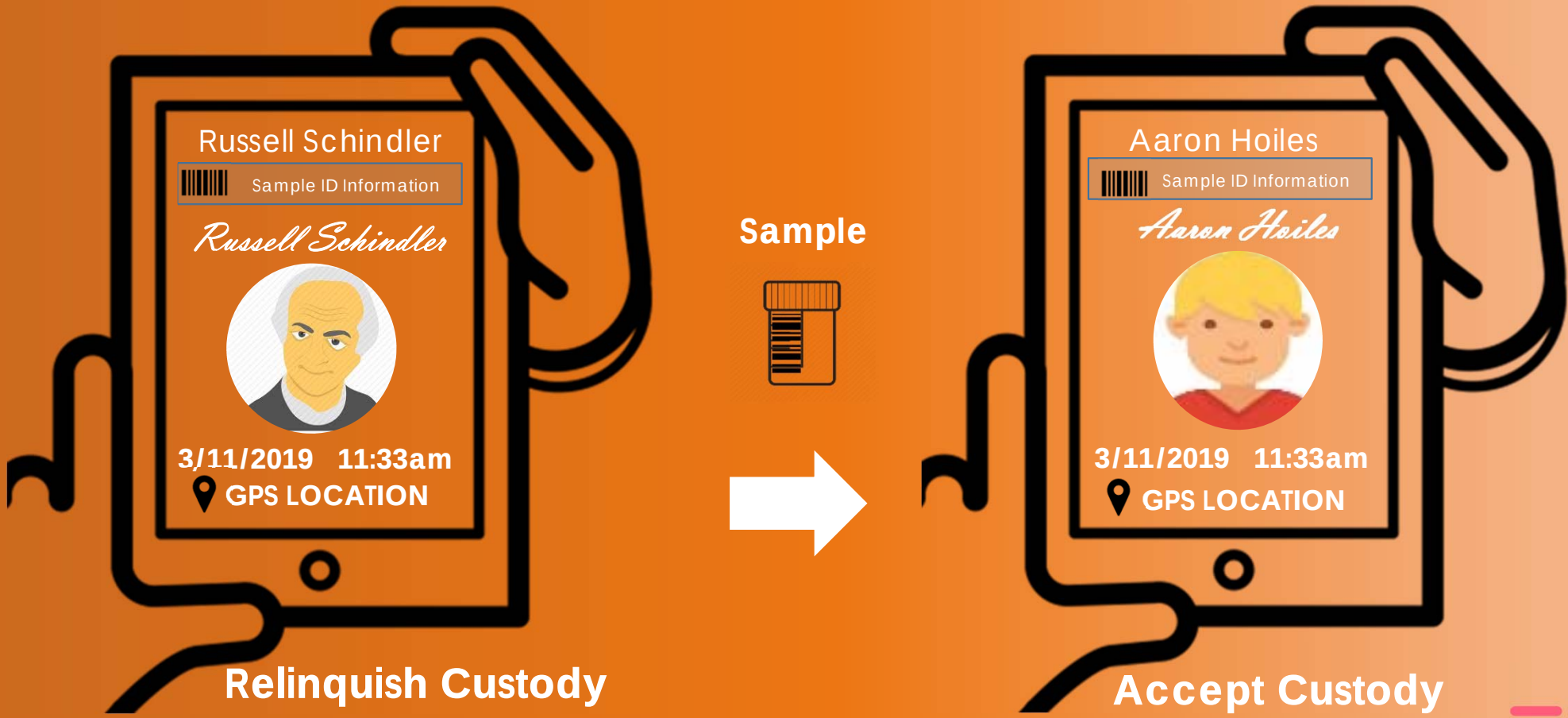
Sample



- Username and Password
- Signature
- Selfie
- Date/Time & GPS Location
- Print Label w/ Bar-Code and/or QR-Code
- Patents Include Other Bio-metrics

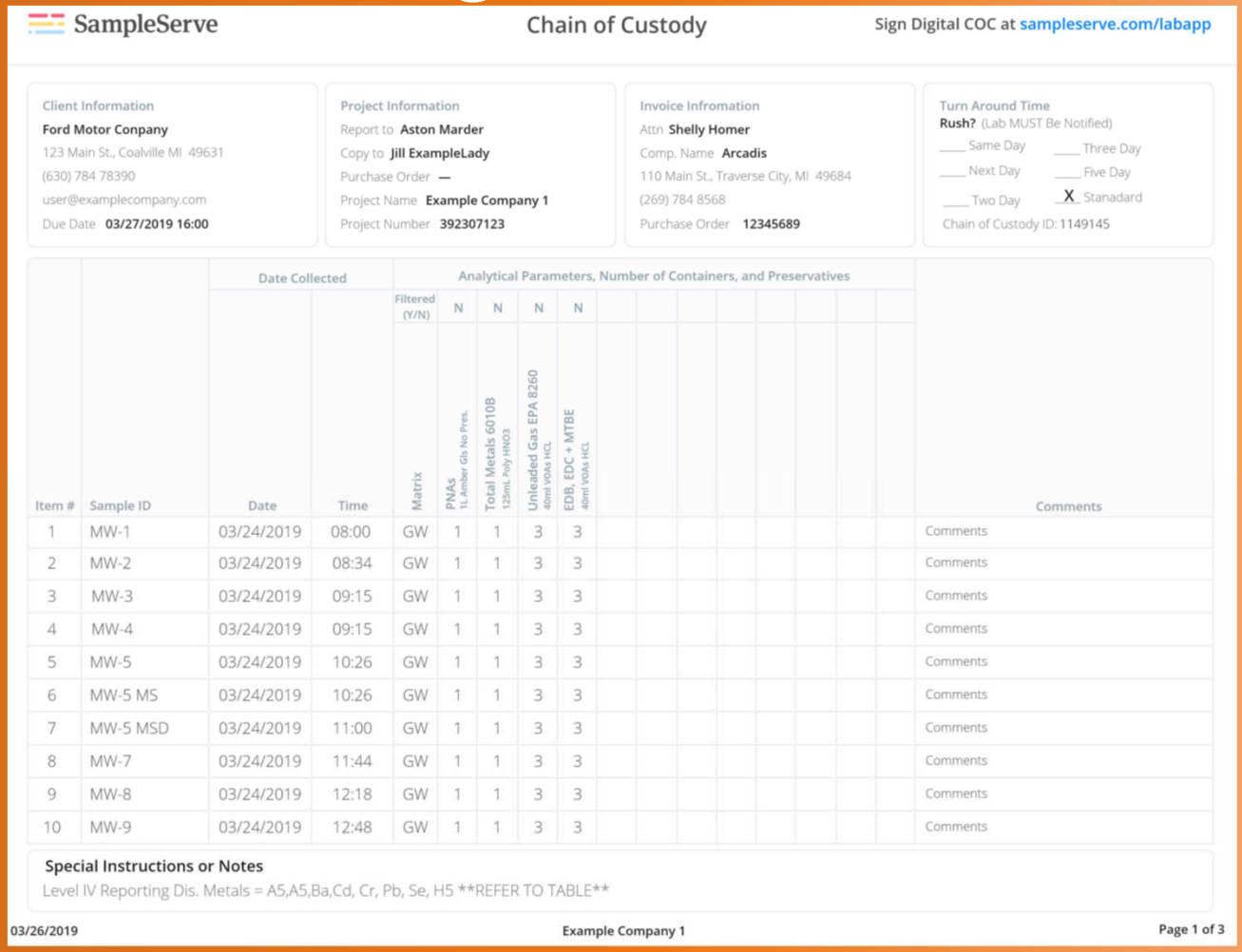
Patents #10,198,676 and #10,281,367

How Digital Chain-Of-Custody Works



Digital COC

PDF & JSON



SampleServe

Chain of Custody

Sign Digital COC at sampleserve.com/labapp

Client Information
Ford Motor Conpany
123 Main St., Coalville MI 49631
(630) 784 78390
user@examplecompany.com
Due Date 03/27/2019 16:00

Project Information
Report to Aston Marder
Copy to Jill ExampleLady
Purchase Order —
Project Name Example Company 1
Project Number 392307123

Invoice Infromation
Attn Shelly Homer
Comp. Name Arcadis
110 Main St., Traverse City, MI 49684
(269) 784 8568
Purchase Order 12345689

Turn Around Time
Rush? (Lab MUST Be Notified)
___ Same Day ___ Three Day
___ Next Day ___ Five Day
___ Two Day _X_ Stanadard
Chain of Custody ID: 1149145

		Date Collected		Analytical Parameters, Number of Containers, and Preservatives														
				Filtered (Y/N)	N	N	N	N										
Item #	Sample ID	Date	Time	Matrix	PNAs 1L Amber Gls No Pres.	Total Metals 6010B 125mL Poly HNO3	Unleaded Gas EPA 8260 40ml VOAs HCL	EDB, EDC + MTBE 40ml VOAs HCL										Comments
1	MW-1	03/24/2019	08:00	GW	1	1	3	3										Comments
2	MW-2	03/24/2019	08:34	GW	1	1	3	3										Comments
3	MW-3	03/24/2019	09:15	GW	1	1	3	3										Comments
4	MW-4	03/24/2019	09:15	GW	1	1	3	3										Comments
5	MW-5	03/24/2019	10:26	GW	1	1	3	3										Comments
6	MW-5 MS	03/24/2019	10:26	GW	1	1	3	3										Comments
7	MW-5 MSD	03/24/2019	11:00	GW	1	1	3	3										Comments
8	MW-7	03/24/2019	11:44	GW	1	1	3	3										Comments
9	MW-8	03/24/2019	12:18	GW	1	1	3	3										Comments
10	MW-9	03/24/2019	12:48	GW	1	1	3	3										Comments

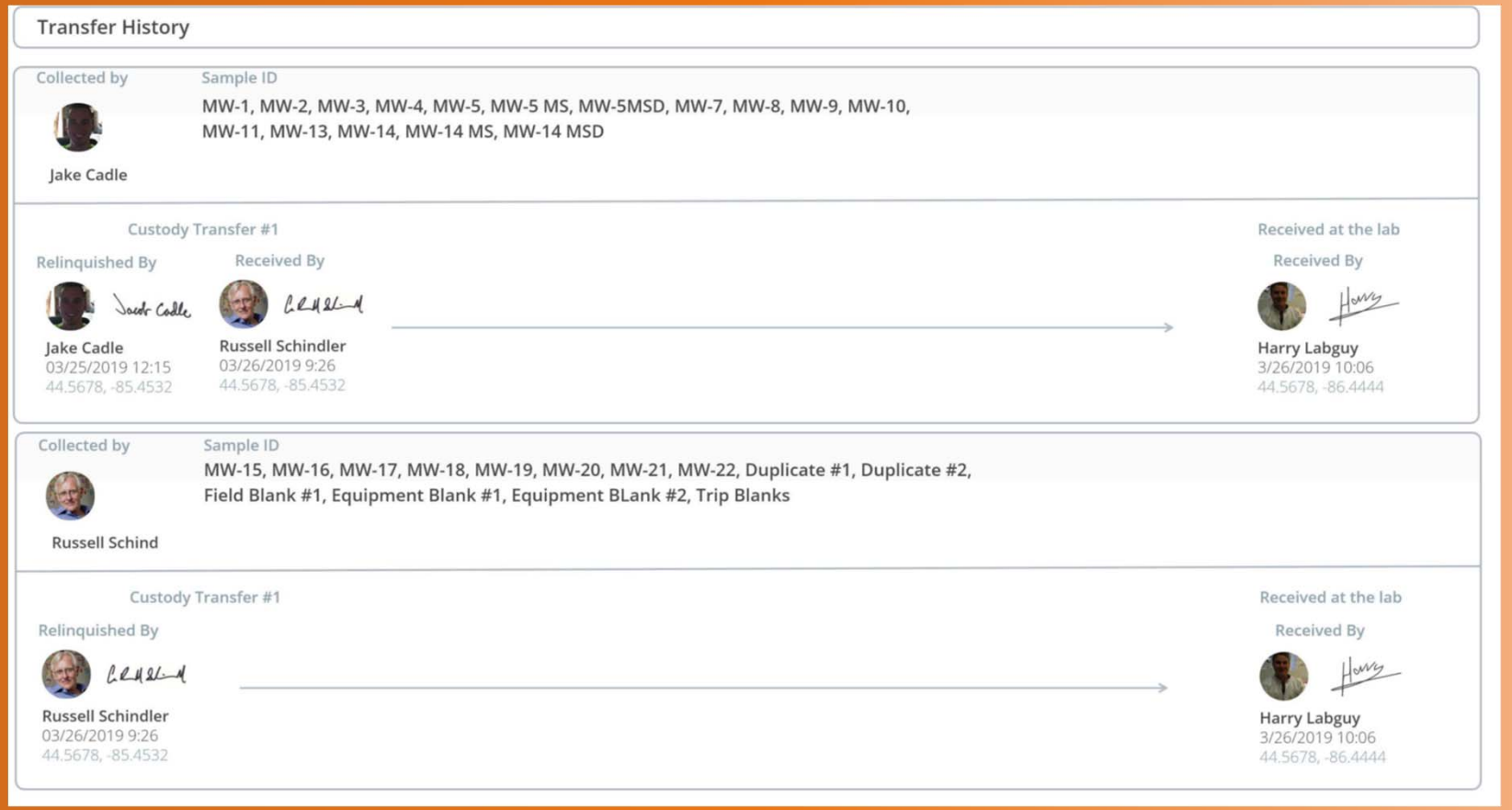
Special Instructions or Notes
Level IV Reporting Dis. Metals = A5,A5,Ba,Cd, Cr, Pb, Se, H5 **REFER TO TABLE**

03/26/2019 Example Company 1 Page 1 of 3

Patents #10,198,676 and #10,281,367

Digital Chain-Of-Custody

PDF and JSON Files



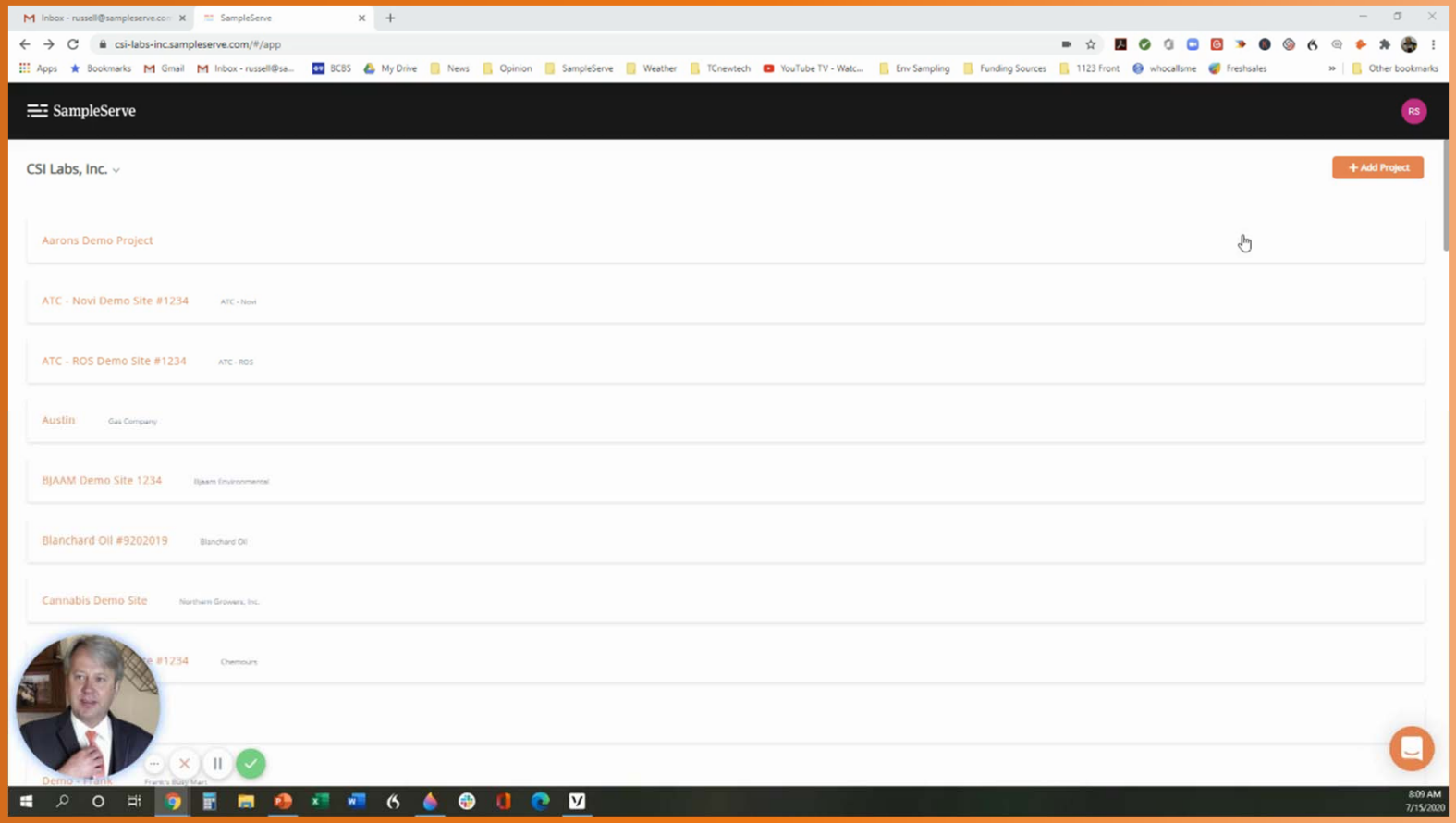
Patents #10,198,676 and #10,281,367

Lab URL Web Portal
Sample Receiving Checklists & Test Parameter/Bottle Menu

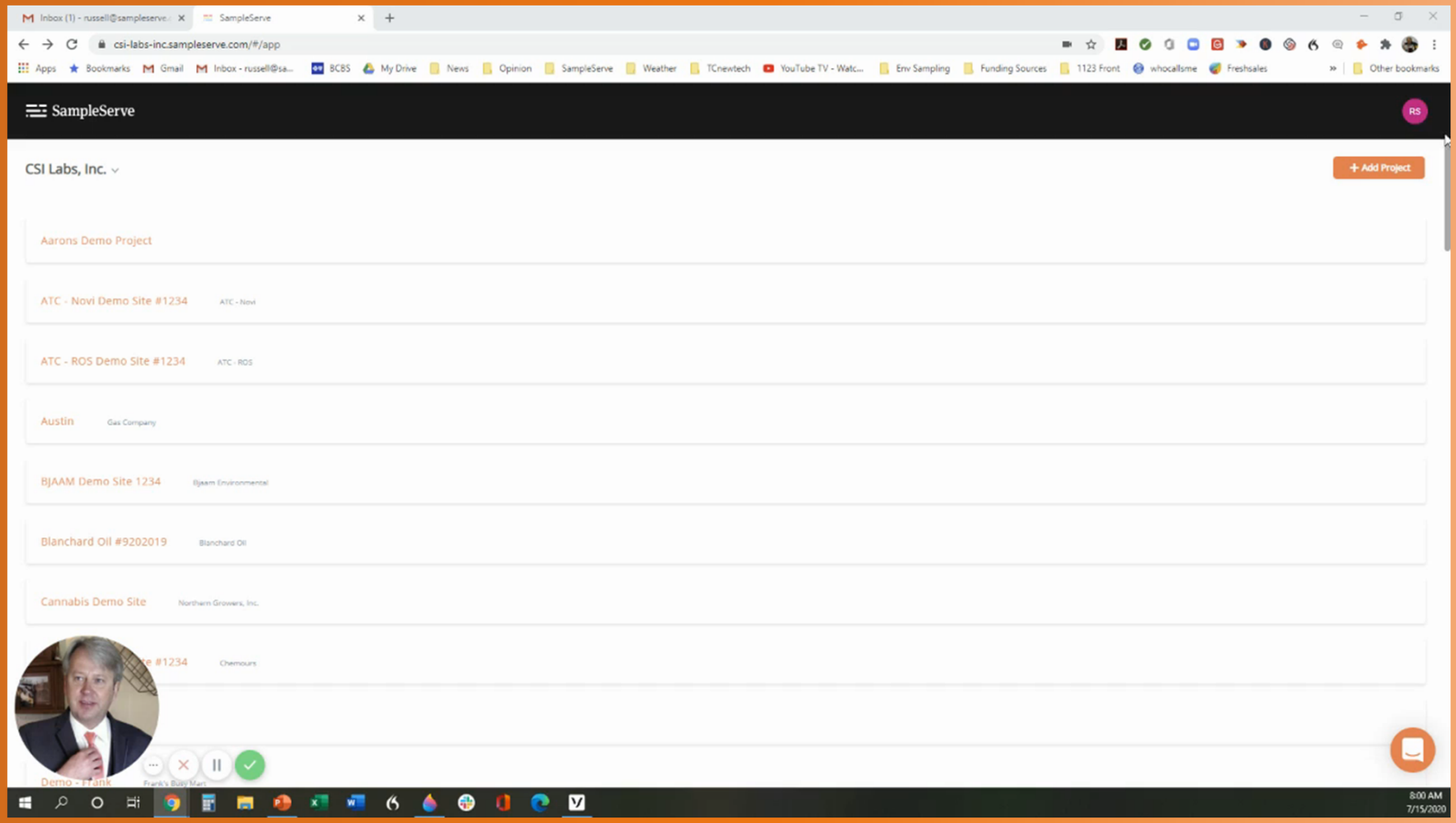
Custom Sample Receiving Checklists:
By Lab Location and Sample Media Type

Sample Parameter/Test Bottle Menu:
By Lab Location, State, and Sample Media Type

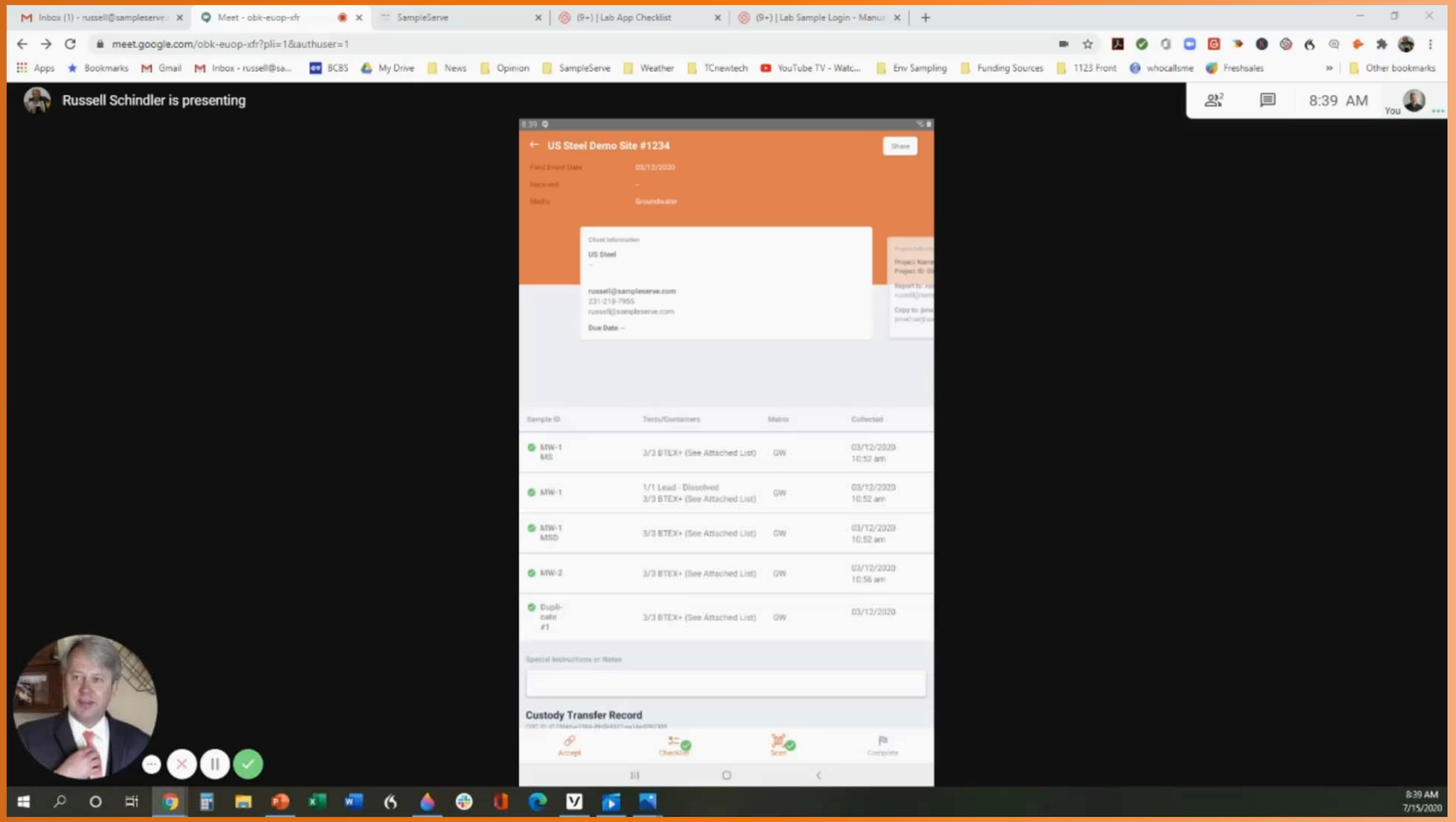
Lab Test Parameter/Bottle Menu Add/Edit



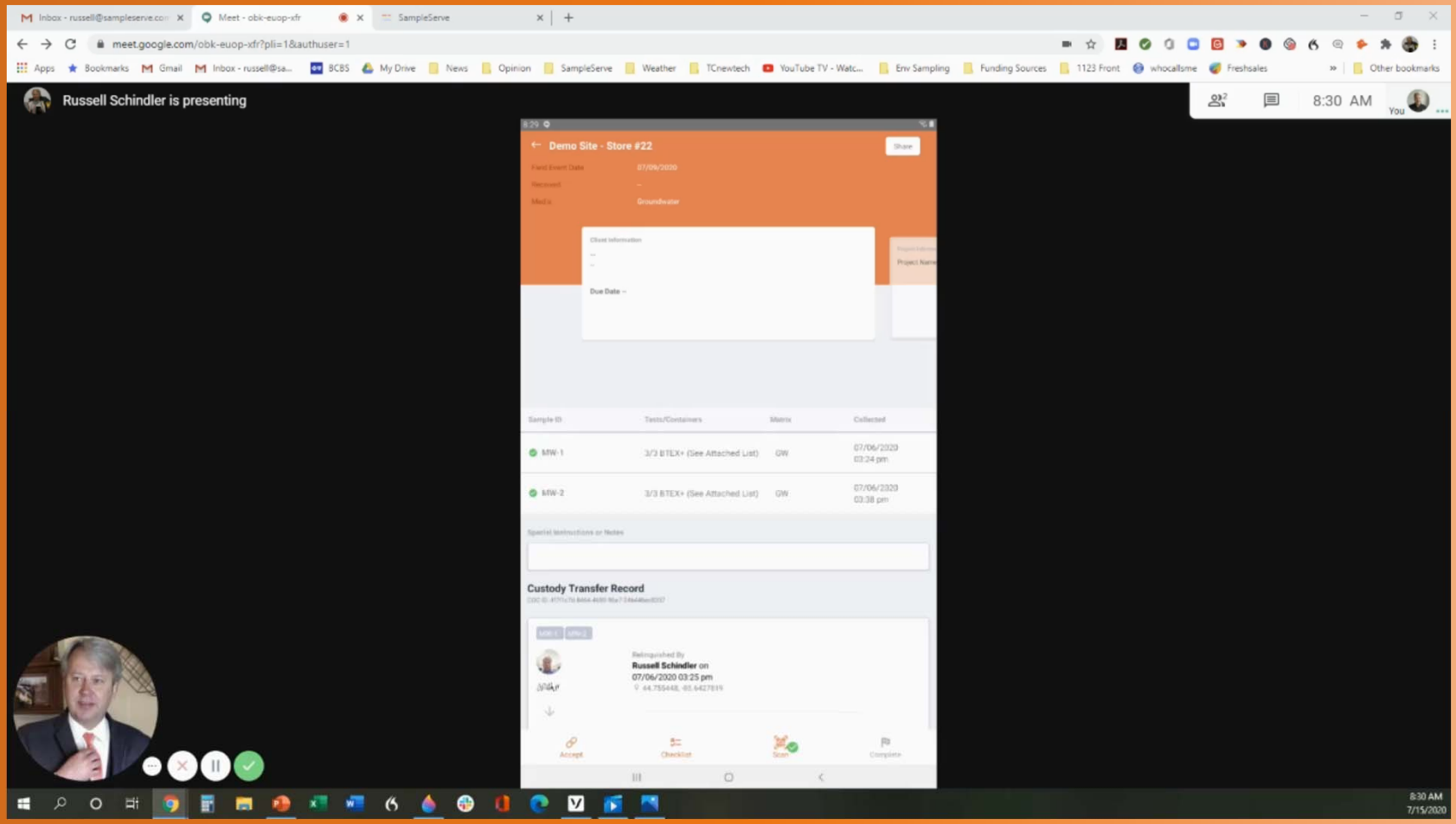
Lab Custom Sample Receiving Checklists



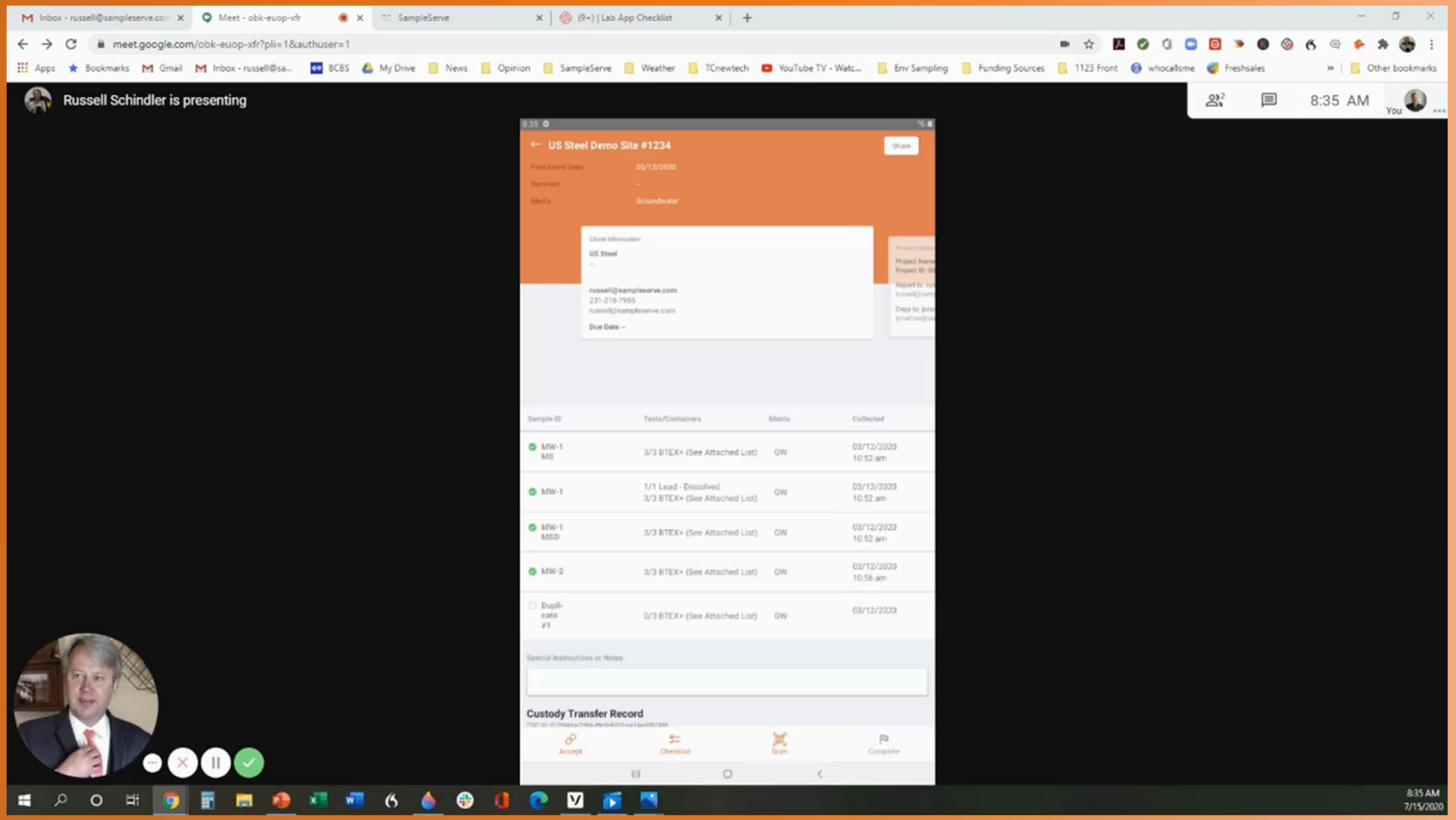
Lab App - D-COC Acceptance



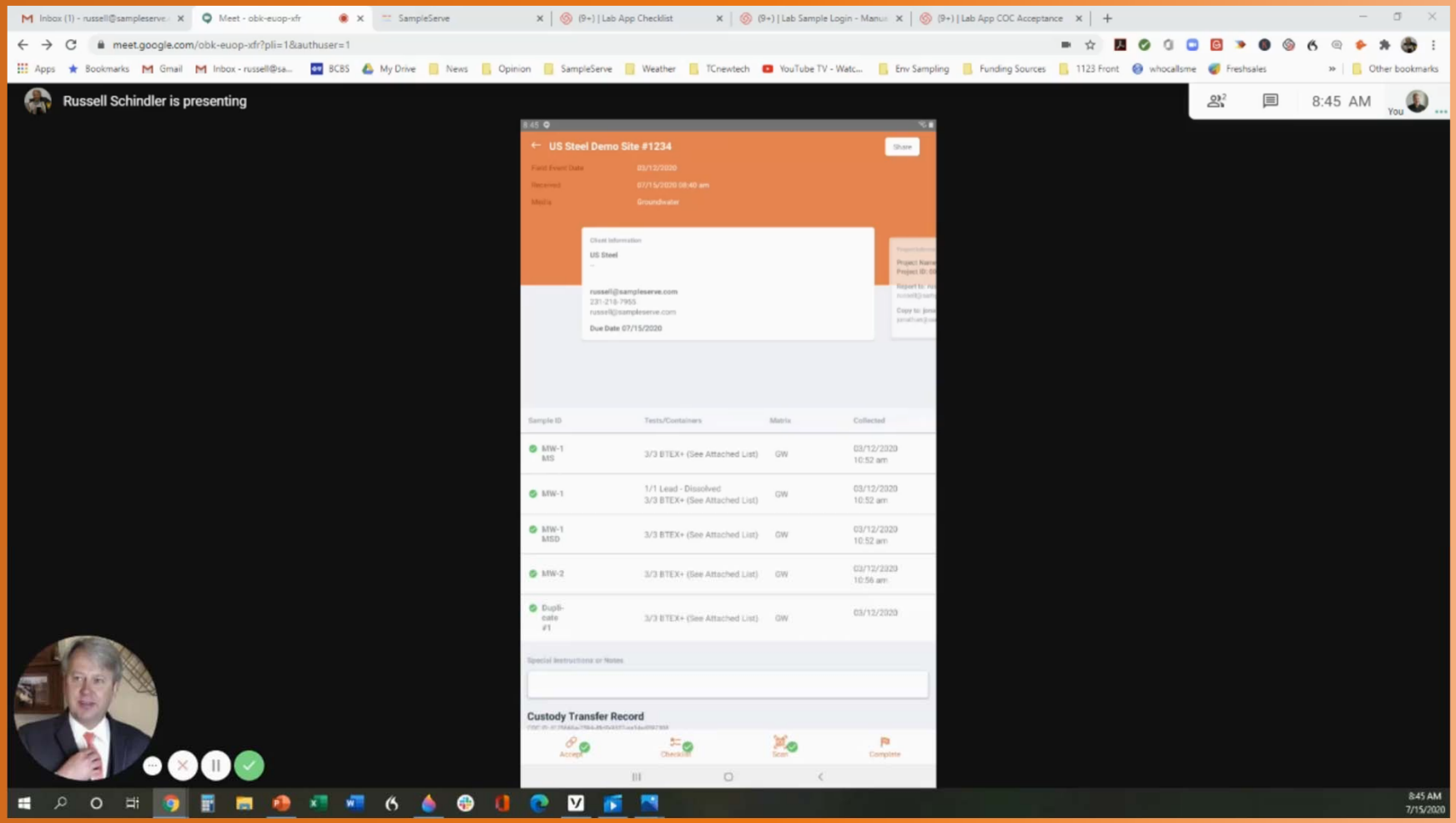
Lab App - Sample Login Checklist



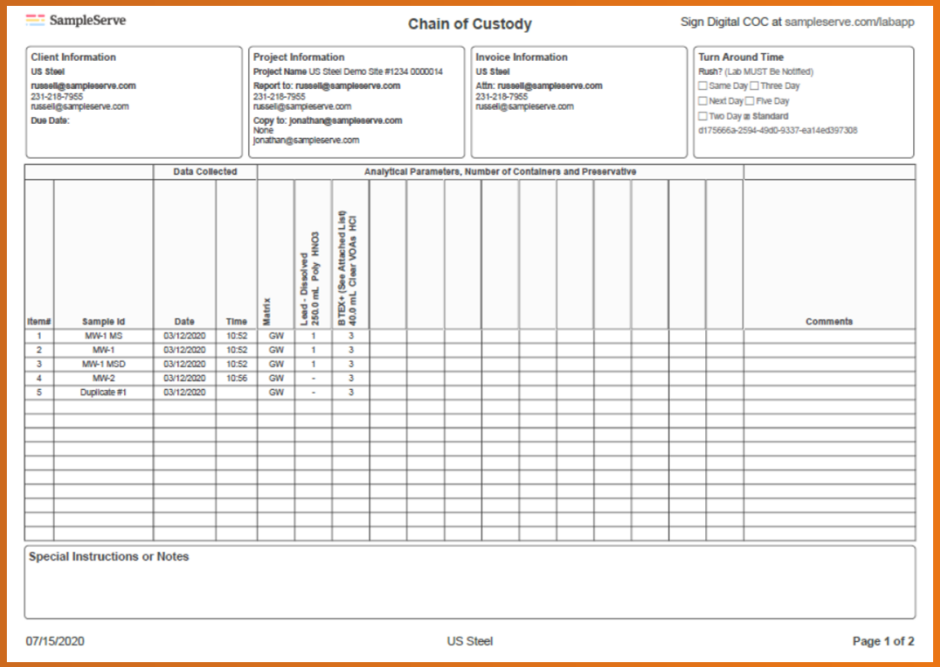
Lab App – Manual Bottle Login



Complete Login & Share Completed D-COC



PDF File Saved and Sent To Customer



SampleServe

Chain of Custody

Sign Digital COC at sampleserve.com/labapp

Client Information
US Steel
russell@sampleserve.com
231-218-7955
russell@sampleserve.com
Due Date:

Project Information
Project Name US Steel Demo Site #1234 0000014
Report to: russell@sampleserve.com
231-218-7955
russell@sampleserve.com
Copy to: jonathan@sampleserve.com
None
jonathan@sampleserve.com

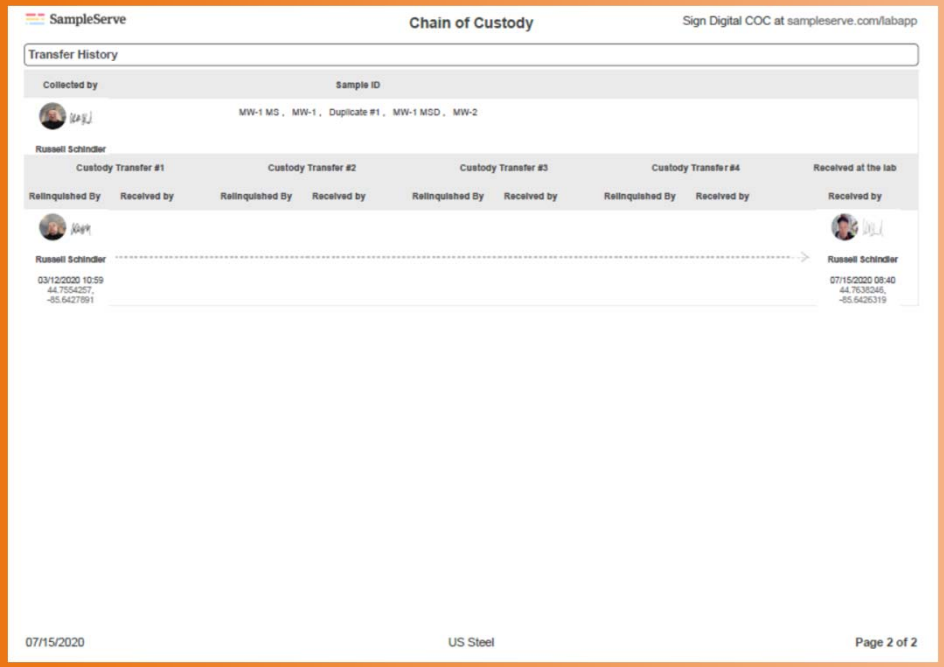
Invoice Information
US Steel
Attn: russell@sampleserve.com
231-218-7955
russell@sampleserve.com

Turn Around Time
Rush? (Lab MUST Be Notified)
☐ Same Day ☐ Three Day
☐ Next Day ☐ Five Day
☐ Two Day ☒ Standard
d175665a-2594-49d0-9337-ea14ed397308

		Data Collected		Analytical Parameters, Number of Containers and Preservative														
Item#	Sample Id	Date	Time	Matrix	Lead - Dissolved 250.0 mL Poly HNO3	BTEX+ (See Attached List) 40.0 mL Clear VOAs HCl												Comments
1	MW-1 MS	03/12/2020	10:52	GW	1	3												
2	MW-1	03/12/2020	10:52	GW	1	3												
3	MW-1 MSD	03/12/2020	10:52	GW	1	3												
4	MW-2	03/12/2020	10:56	GW	-	3												
5	Duplicate #1	03/12/2020		GW	-	3												

Special Instructions or Notes

07/15/2020 US Steel Page 1 of 2



SampleServe

Chain of Custody

Sign Digital COC at sampleserve.com/labapp

Transfer History

Collected by	Sample ID
Russell Schindler	MW-1 MS , MW-1 , Duplicate #1 , MW-1 MSD , MW-2

Custody Transfer #1		Custody Transfer #2		Custody Transfer #3		Custody Transfer #4		Received at the lab
Relinquished By	Received by	Relinquished By	Received by	Relinquished By	Received by	Relinquished By	Received by	Received by
Russell Schindler								Russell Schindler
03/12/2020 10:59 44.7554257, -85.6427891								07/15/2020 08:40 44.7638046, -85.6426319

07/15/2020 US Steel Page 2 of 2

JSON File Sent To Labs LIMS System (imported via API or Special email import mechanisim)


```
{"customer_info": {"client": {"phone": "231-218-7955", "name": "russell@sampleserve.com", "company": "US Steel", "email": "russell@sampleserve.com"}, "project": {"name": "US
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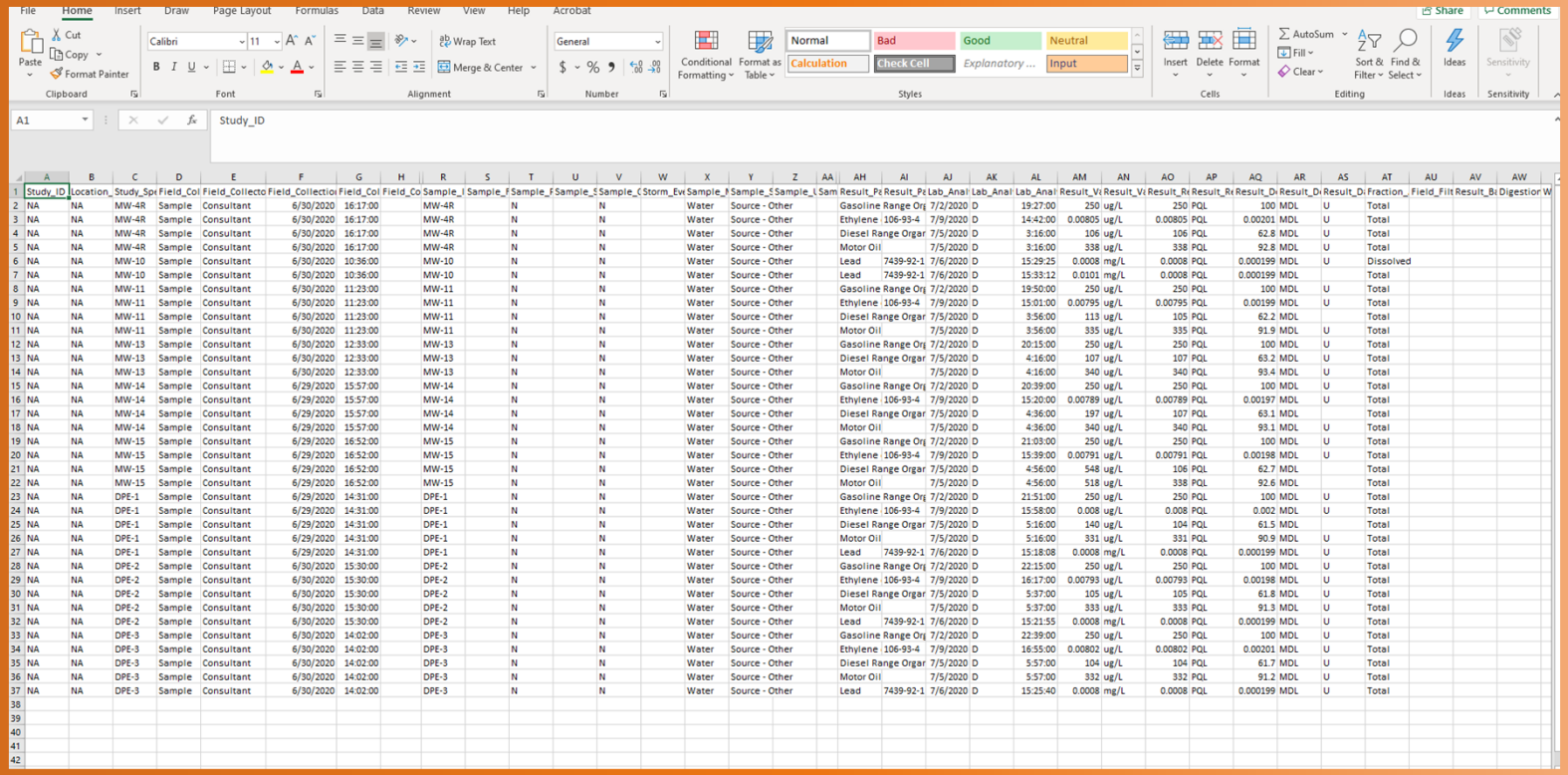
Lab Data Upload Back to SampleServe

Email to: labdataupload@sampleserve.com

Formats: EQUIS, EIM, Other csv's



Study_ID	Location_	Study_Spr	Field_Col	Field_Collecto	Field_Collectio	Field_Col	Field_Co	Sample_I	Sample_F	Sample_F	Sample_S	Sample_C	Storm_Ev	Sample_M	Sample_S	Sample_S	Sam	Result_Pe	Result_Pe	Lab_Anal	Lab_Anal	Lab_Anal	Result_Vi	Result_Vi	Result_Re	Result_Re	Result_Da	Result_Da	Result_Di	Fraction_	Field_Filt	Result_Ba	Digestion	W
NA	NA	MW-4R	Sample	Consultant	6/30/2020	16:17:00		MW-4R		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	19:27:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	MW-4R	Sample	Consultant	6/30/2020	16:17:00		MW-4R		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	14:42:00	0.00805	ug/L	0.00805	PQL	0.00201	MDL	U	Total					
NA	NA	MW-4R	Sample	Consultant	6/30/2020	16:17:00		MW-4R		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	3:16:00	106	ug/L	106	PQL	62.8	MDL	U	Total					
NA	NA	MW-4R	Sample	Consultant	6/30/2020	16:17:00		MW-4R		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	3:16:00	338	ug/L	338	PQL	92.8	MDL	U	Total					
NA	NA	MW-10	Sample	Consultant	6/30/2020	10:36:00		MW-10		N		N		Water	Source -	Other		Lead	7439-92-1	7/6/2020	D	15:29:25	0.0008	mg/L	0.0008	PQL	0.000199	MDL	U	Dissolved					
NA	NA	MW-10	Sample	Consultant	6/30/2020	10:36:00		MW-10		N		N		Water	Source -	Other		Lead	7439-92-1	7/6/2020	D	15:33:12	0.0101	mg/L	0.0008	PQL	0.000199	MDL		Total					
NA	NA	MW-11	Sample	Consultant	6/30/2020	11:23:00		MW-11		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	19:50:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	MW-11	Sample	Consultant	6/30/2020	11:23:00		MW-11		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	15:01:00	0.00795	ug/L	0.00795	PQL	0.00199	MDL	U	Total					
NA	NA	MW-11	Sample	Consultant	6/30/2020	11:23:00		MW-11		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	3:56:00	113	ug/L	105	PQL	62.2	MDL		Total					
NA	NA	MW-11	Sample	Consultant	6/30/2020	11:23:00		MW-11		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	3:56:00	335	ug/L	335	PQL	91.9	MDL	U	Total					
NA	NA	MW-13	Sample	Consultant	6/30/2020	12:33:00		MW-13		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	20:15:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	MW-13	Sample	Consultant	6/30/2020	12:33:00		MW-13		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	4:16:00	107	ug/L	107	PQL	63.2	MDL	U	Total					
NA	NA	MW-13	Sample	Consultant	6/30/2020	12:33:00		MW-13		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	4:16:00	340	ug/L	340	PQL	93.4	MDL	U	Total					
NA	NA	MW-14	Sample	Consultant	6/29/2020	15:57:00		MW-14		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	20:39:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	MW-14	Sample	Consultant	6/29/2020	15:57:00		MW-14		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	15:20:00	0.00789	ug/L	0.00789	PQL	0.00197	MDL	U	Total					
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NA	NA	MW-14	Sample	Consultant	6/29/2020	15:57:00		MW-14		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	4:36:00	340	ug/L	340	PQL	93.1	MDL	U	Total					
NA	NA	MW-15	Sample	Consultant	6/29/2020	16:52:00		MW-15		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	21:03:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	MW-15	Sample	Consultant	6/29/2020	16:52:00		MW-15		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	15:39:00	0.00791	ug/L	0.00791	PQL	0.00198	MDL	U	Total					
NA	NA	MW-15	Sample	Consultant	6/29/2020	16:52:00		MW-15		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	4:56:00	548	ug/L	106	PQL	62.7	MDL		Total					
NA	NA	MW-15	Sample	Consultant	6/29/2020	16:52:00		MW-15		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	4:56:00	518	ug/L	338	PQL	92.6	MDL	U	Total					
NA	NA	DPE-1	Sample	Consultant	6/29/2020	14:31:00		DPE-1		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	21:51:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	DPE-1	Sample	Consultant	6/29/2020	14:31:00		DPE-1		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	15:58:00	0.008	ug/L	0.008	PQL	0.002	MDL	U	Total					
NA	NA	DPE-1	Sample	Consultant	6/29/2020	14:31:00		DPE-1		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	5:16:00	140	ug/L	104	PQL	61.5	MDL		Total					
NA	NA	DPE-1	Sample	Consultant	6/29/2020	14:31:00		DPE-1		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	5:16:00	331	ug/L	331	PQL	90.9	MDL	U	Total					
NA	NA	DPE-1	Sample	Consultant	6/29/2020	14:31:00		DPE-1		N		N		Water	Source -	Other		Lead	7439-92-1	7/6/2020	D	15:18:08	0.0008	mg/L	0.0008	PQL	0.000199	MDL	U	Total					
NA	NA	DPE-2	Sample	Consultant	6/30/2020	15:30:00		DPE-2		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	22:15:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	DPE-2	Sample	Consultant	6/30/2020	15:30:00		DPE-2		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	16:17:00	0.00793	ug/L	0.00793	PQL	0.00198	MDL	U	Total					
NA	NA	DPE-2	Sample	Consultant	6/30/2020	15:30:00		DPE-2		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	5:37:00	105	ug/L	105	PQL	61.8	MDL	U	Total					
NA	NA	DPE-2	Sample	Consultant	6/30/2020	15:30:00		DPE-2		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	5:37:00	333	ug/L	333	PQL	91.3	MDL	U	Total					
NA	NA	DPE-2	Sample	Consultant	6/30/2020	15:30:00		DPE-2		N		N		Water	Source -	Other		Lead	7439-92-1	7/6/2020	D	15:21:55	0.0008	mg/L	0.0008	PQL	0.000199	MDL	U	Total					
NA	NA	DPE-3	Sample	Consultant	6/30/2020	14:02:00		DPE-3		N		N		Water	Source -	Other		Gasoline	Range Or	7/2/2020	D	22:39:00	250	ug/L	250	PQL	100	MDL	U	Total					
NA	NA	DPE-3	Sample	Consultant	6/30/2020	14:02:00		DPE-3		N		N		Water	Source -	Other		Ethylene	106-93-4	7/9/2020	D	16:55:00	0.00802	ug/L	0.00802	PQL	0.00201	MDL	U	Total					
NA	NA	DPE-3	Sample	Consultant	6/30/2020	14:02:00		DPE-3		N		N		Water	Source -	Other		Diesel Ra	Organ	7/5/2020	D	5:57:00	104	ug/L	104	PQL	61.7	MDL	U	Total					
NA	NA	DPE-3	Sample	Consultant	6/30/2020	14:02:00		DPE-3		N		N		Water	Source -	Other		Motor Oil		7/5/2020	D	5:57:00	332	ug/L	332	PQL	91.2	MDL	U	Total					
NA	NA	DPE-3	Sample	Consultant	6/30/2020	14:02:00		DPE-3		N		N		Water	Source -	Other		Lead	7439-92-1	7/6/2020	D	15:25:40	0.0008	mg/L	0.0008	PQL	0.000199	MDL	U	Total					

Additional Market Verticals / Products

Drinking Water Sampling

BETA Version
Released Jan. 30, 2020

Cannabis Sampling

BETA Version
August 2020

Soil Boring Log & Sampling

BETA Version
August 2020

COVID-19

Soil Vapor Sampling

Wastewater Sampling

Air Stack Sampling

Asbestos Sampling

Forensic Sampling

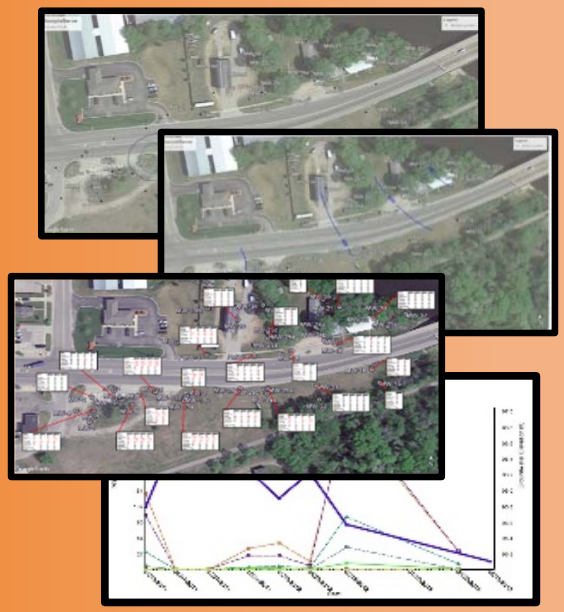
Business Model

Project Management Tool

Field App - QR Code Label Printing

Lab App - Logging Samples

Revenue From the Report Generator



Freemium

$15 / Sample – Report Cost Based On Number Of Samples Collected

SampleServe

Thank You!

Russell Schindler
231-218-7955
russell@sampleserve.com