Appendix C CSN Forms

Figure C-1. Analysis Batch Checklist (page 1 of 2)

Analysis Batch Checklist

Analysis Batch #_	
Date Range	

Set#	Intended Sample Date	Data Entered By/Date	QA Performed By/Date
	<u> </u>		
	1		
·			
			1

	Comments:
ı	

Figure C-1. Analysis Batch Checklist (page 2 of 2)

Analysis Batch Checklist

Analysis Batch #_	
-	
Date Range	

QA Queries performed

Query	Run By	Date	COMMENTS
Create SV flags for Sample Flow Out of Bounds			
Create TT Flags for Validity			
Create Flags for Mass over 10 days			
Create Flags for Flow CV			
Create Flags for Flow Rate			
Create Flags for Sample Pressure			
Create Flags for Trip Blanks			
Create Flags for Sample Time Too Long			
Update Comments for Flow CV Flag			
Update Comments for Sample Pressure			
Update Comments for Sample Temp.			
Update Comments for Trip Blanks			
QAQry Check End Date Before Start Date			
QAQryIntended Date not equal to start			
QAQryUCDL0FAIDMissingnoNullnoComment			
QAQryUCDL0InvalidSmpINoComments			
QAQryUCDL0NullValidNoFilterRec			
QAQryUCDL0StartEnd>24hrsnoComment			
QAQryUCDL0StartEndDateonFBnoComments			
QAQryUCDL0StartEndSamenoComments			

Data Export

Export Query	Run By	Date	Comments
FilterDataNullFlags			
FilterDataTransfer			
FilterDataValidFlags			
Teflon COC			
Nylon COC			
Quartz COC			

Shipments

Lab	# of packages	Date	Data Export Emailed/Date
UC Davis			
DRI			

Figure C-2. Measurement Request

Measurement Request

Site ID

Q001

Site Name

Birmingham - North Birmingham

Sample Frequency

Seq 1-in-3

No FRM?

Tribal Site?

Primary Tribal Site? No

Measurement Request ID:

MQ00111202015

Ship Date

11/16/2015

Sample Date

11/20/2015

Shipping Number

Sample Types Required for Measurement Request

SamplerTypeID

Sampler Description

Sample Request ID

01

SASS

02

URG 3000N

Figure C-3. PM2.5 CSN Custody and Field Data Form (1 of 2)

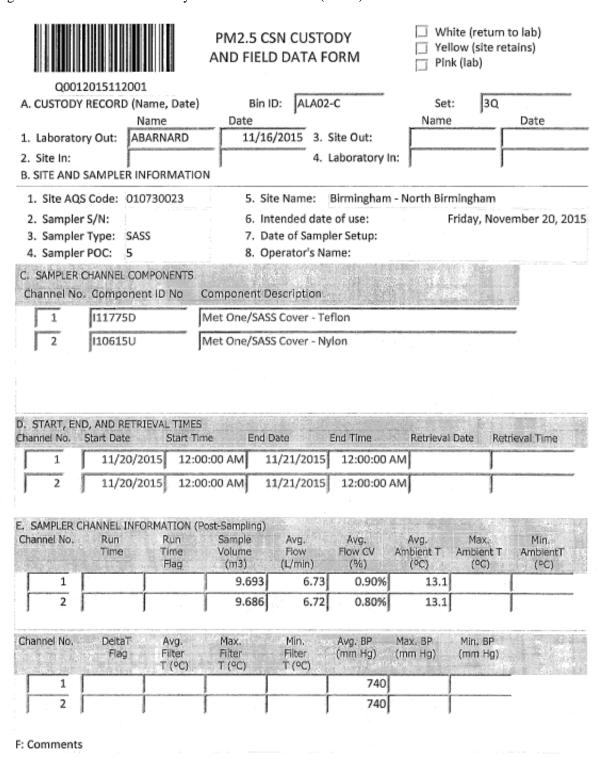


Figure C-3. PM2.5 CSN Custody and Field Data Form (2 of 2)

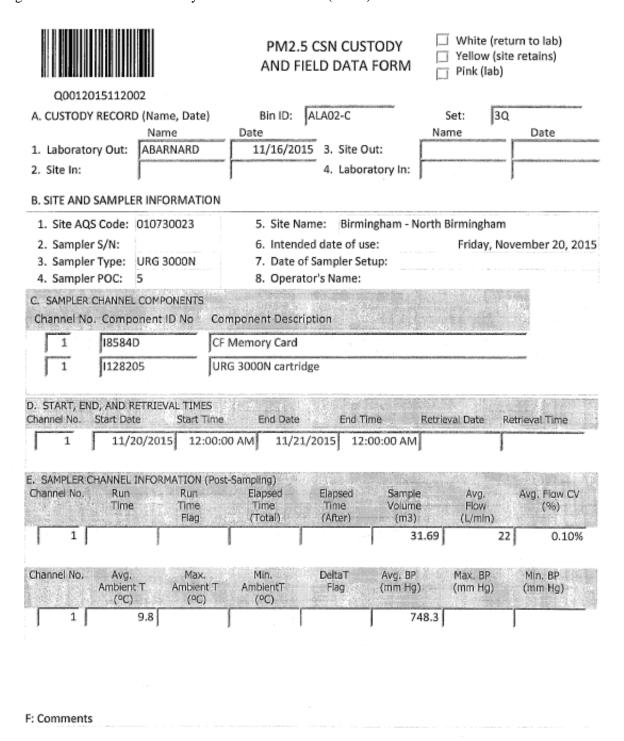


Figure C-4. TAMS Gravimetric Custody and Field Data Form

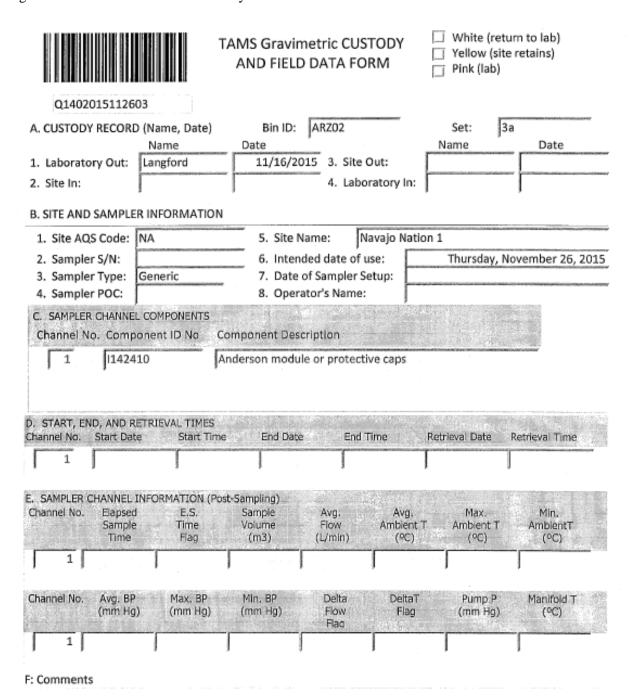


Figure C-5. CSN Field Sampling Null Value and Validity Coding Form

nair	of Custody Compline Descript ID: 0000	1201511200	Intended Hea Data 44 /20 /204
	of Custody Sampling Request ID: Q003	1201511200	Intended Use Date 11/20/201
	Sample Date (if diffe	rent from In	tended Use Date)
ate	Received in FISH Recei	ved in FiSH b	y:
Instru	tions to Field Sampling Operator: For the sampling event identifi	ed by the Chain o	f Custody Sampling Request ID indicated above, please ci
	applicable flags in the tables below. If no flags apply	to this sampling	event, please check the box below the tables.
			Table B. Walleller Floor
	Table A. Null Value Codes * selection of any flag in this table will invalidate sample	* samples marke	Table B. Validity Flags d with any of these flags will be analyzed and reported wi
F7017011	September 1997 Programme of the Company of the Comp	F0000.F7	
ag	- Description -	Flag	Description
AB	TECHNICIAN UNAVAILABLE	2	Operational Deviation
AC-	CONSTRUCTION/REPAIRS IN AREA	3	Field Issue
AD	SHELTER STORM DAMAGE	4	Lab Issue
AE	SHELTER TEMPERATURE OUTSIDE LIMITS	5	Outlier
AF	SCHEDULED BUT NOT COLLECTED	6	QAPP Issue
AG	SAMPLE TIME OUT OF LIMITS	lA.	African Dust
٩Н	SAMPLE FLOW RATE OUT OF LIMITS	IB	Asian Dust
Αŧ	INSUFFICIENT DATA (CAN'T CALCULATE)	IC	Chem. Spills and Industrial Accidents
AJ	FILTER DAMAGE	ID	Cleanup After a Major Disaster
٩K	FILTER LEAK	IE	Demolition
٩L	VOIDED BY OPERATOR	JF.	Fire - Canadian
М	MISCELLANEOUS VOID	IG	Fire - Mexico/Central America
٩N	MACHINE MALFUNCTION	IH	Fireworks
AO	BAD WEATHER	- 11	High Pollen Count
AP	VANDALISM	IJ	High Winds
AQ:	COLLECTION ERROR	IK	Infrequent Large Gatherings
AR	LAB ERROR	IL	Other
AS	POOR QUALITY ASSURANCE RESULTS	IM	Prescribed Fire
ΑU	MONITORING WAIVED	IN	Seismic Activity
ΑV	POWER FAILURE (POWR)	10	Stratospheric Ozone Intrusion
W	WILDLIFE DAMAGE	IP	Structural Fire
ΑZ	QC AUDIT (AUDT)	IQ	Terrorist Act
BA	MAINTENANCE/ROUTINE REPAIRS	IR	Unique Traffic Disruption
ВВ	UNABLE TO REACH SITE	IS	Volcanic Eruptions
BE	BUILDING/SITE REPAIR	IT	Wildfire - U.S.
Bl	LOST OR DAMAGED IN TRANSIT	T	Multiple Flags: Misc
ВЈ	OPERATOR ERROR	TT	Transport Temperaure is Out of Specs.
AC	ABERRANT DATA	V	Validated Value
SA	STORM APPROACHING	W	Flow Rate Average Out of Spec
		X	Filter Temperature Difference Out of Spec
		Υ	Elapsed Sample Time Out of Spec

Figure C-6. CSN Level 0 Validation

COC Sample Request ID Q0012015112001				Cooler Nur	nber
Temperature: 0.9		Speciation Netv el 0 Validation	vork		
Site	e: Q001	Set #: 3Q	Dat Rece		12/1/2015
Sa	mple Date:	11/20/2015	5	Tuesd	lay, December 01, 2015
OBSERVA	TION		STATUS	FLAG ASSIGNED	COMPONENT IDs FLAGGED
1. Cooler received intact with all ice packs ar	d bin components?		Y/N/NA		
2. Contents received at <=4 degrees C?			Y/N/NA		
3. All modules present and intact?			Y/N/NA	-	
4. Custody and Field Data Form received in c A. All required data properly filled in? B. Signed and dated by field operator? 5. Module numbers agree with numbers on a contract of the contr		ata Form?	Y/N/NA Y/N/NA Y/N/NA Y/N/NA		
6. Modules appear undamaged?			Y/N/NA		
7. Module end caps in place - threaded prop	erly (if applicable)?		Y/N/NA		
8. Visible filters inspected and appear undan	aged?		Y/N/NA	:	
9. All filters unloaded and assembled into ba	tches for laboratory	analysis?	Y/N/NA		
10. Filter aliquot numbers entered into Labo	ratory Chain of Cust	ody forms?	Y/N/NA		
Filter Flags Entered					First Data Entry Complete
Filter Flags Reviewed					Data Entry Review Complete
Comments					
					The second secon
Signature					Date Completed

Figure C-7. CSN Laboratory Chain of Custody

CSN Laboratory Chain of Custody Form

Ship Date and Name Receive Date and Name 3/3/2016 BARNARD

Analysis Request ID

Intended Sample Date

12/17/2015

Set #

A0000004			
Barcode/Filter Analysis ID	Filter Type	Analysis Requested	Invalid?
Filter Analysis ID	Teflon	XRF	
F002085	T6647135		
Filter Analysis ID	Teflon	XRF	
F002088	T6647107		
Filter Analysis ID	Teflon	XRF	
F002091	T6647136		
Filter Analysis ID	Teflon	XRF	
F002093	T6647101		
Filter Analysis ID	Teflon	XRF	
F002096	T6647104		
Filter Analysis ID	Teflon	XRF	
F002099	T6647108		
Filter Analysis ID	Teflon	XRF	
F002103	T5556800		
Filter Analysis ID	Teflon	XRF	
F002107	T6647102		
Filter Analysis ID	Teflon	XRF	
F002111	T6647105		
Filter Analysis ID	Teflon	XRF	
F002112	T5556844		
Filter Analysis ID	Teflon	XRF	
F002115	T5556837		

Figure C-8. CSN Data Entry Log

CSN Data Entry Log

Set:	Intended Use Date://
Completion Date://	
Signature:	<u></u>
Comments:	
QC Date:/	
QC Signature:	
Comments:	

Figure C-9. Q&A of Outgoing Set Check List

Set: Intended Use Date: Q&A Completed By:

Q&A of Outgoing Set Check List

Teflon
of entries match # of boxes per set type
Correct set # for all entries
Correct channel position
Each entry has a component id # associated with it
Ship out lab name spelt correctly
Lot # is correct for all entries (compare against filter lot list on akea drive)
Unique Teflon filter # is entered correctly
 Should go in ascending order per ship out lab name (ex. 220454826, 220454827)
Nylon
of entries match # of boxes per set type
Correct set # for all entries
Correct channel position
Each entry has a component id # associated with it
Ship out lab name spelt correctly
Lot # is correct for all entries (compare against filter lot list on akea drive)
Memory card
of entries match # of boxes per set type
Correct set # for all entries
Correct channel position
Each entry has a component id # associated with it
Ship out lab name spelt correctly
Quartz
of entries match # of boxes per set type
Correct set # for all entries
Correct channel position
Each entry has a component id # associated with it
Ship out lab name spelt correctly Lot # is correct for all entries (compare against filter lot list on akea drive)

Figure C-10. ElementTM Batch Narrative Sample Form

Element $^{\text{IM}}$ Batch Narrative Sample Form

Batch:	Date:
Room Temp.:	Humidity:
Please note the following observations for	filters in this batch:
Sample Name (Filter #) Code and descriptio code).	on (repeat this information for all samples identified with
A 1 (8)	ъ.
Analyst Signature:	Date:
Reviewer Signatures:	Date:
	Date:
	Date:

Figure C-11. CSN $PM_{2.5}$ PM_{10} QC Logbook

CSN PM2.5 PM10 QC Logbook

MICROBALANCE #:	ME5		ANAL	rst:			
Filter Lot #:		_					
STANDARD CERTIFIED	VALUES: STD	1		mg STI	D2 _		_me
	3N.			SN	l:		_
ANALYSS DATE	INTIAL WORKING STD-1 (mg)	1	Working (mg)	INTIAL WORKING STD 2 [mg]		FNALWOSEN STD 4 (mg)	COMMUNICATION
Loib Blanks (MB) Fiter ID ANALYSIS DAR			re Inifial Weigh		ght (mg) ANALYSS I		FINAL WEIGHT [mg]
						_	
ANALYST:			a	C ZNbE5/III)	OB: _		

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Figure C-12. CSN $PM_{2.5}$ PM_{10} Initial Weights Logbook

C\$N PM_{2.6} / PM₁₀ Filter Initial Weights Logbook

robalance #:		Initials:		Lot #:_				
a:		Temp (°C):			%RH:			
Filter #	Initial Wt.	Replicate	~	Filter #	Initial Wt.	Replica		
			-		(Frida)			
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Figure C-13. CSN Filters for Mass Chain of Custody

CSN Filters for Mass Chain of Custody

Completed by CSN: Initials Date				Completed by Lab						
FilterAnalysisID	UnikFilterIDNum	SampleRequestiD	Date Rec'd	Temp rec'd oC	Weigh By Date	Date of Initial Weight	Date Rec'd in Lab	Rec'd By	LabiD	Date Returned to CSN
				_						
										-