

### **VOC Sample Collection Chain of Custody Protocol**

**July 17, 2017** 

#### **Purpose**

The purpose of this document is to unambiguously define the process for ensuring proper documentation of VOC canister samples triggered as part of air monitoring in the Peace River region. All parties associated with the sample collections and reporting are asked to follow the Chain of Custody Protocol.

This document is intended to be used (and updated accordingly) with the following document:

- Canister Change out Instruction PRAMP 842 Station
- Canister Change out Instruction PRAMP 986 Station
- Canister Change out Instruction PRAMP Reno Station

#### **Canister Inventory Tracking Sheet**

Maxxam will maintain and update the "Canister Inventory Tracking Sheet" spreadsheet. The purpose of this sheet is to keep track of which canisters are at site, when they expire, and when they have been triggered and collected. The spreadsheet includes the following:

- Canister ID
- Date Sent from Innotech Alberta Lab (if available)
- Date Evacuated
- Expiry Date (3 months after Date Evacuated)
- Canister Status (Current/Inventory)
- Date Triggered
- Action Required (if the canister is expired or close to expiry and needs to be sent back to Innotech)

#### **Canister Event Tracking List**

Maxxam will maintain and update the "Canister Event Tracking List" spreadsheet. The purpose of this sheet is to keep track of all the canister events. The spreadsheet includes the following:

- Date/Time and NMHC concentration of a canister event
- Date/Time of canister being changed out
- Name of the person who performs canister change out



#### **Chain of Custody Process**

	Notification of Trigger Events	Canister Change-Out	Tracking of Canister Events
	Maxxam includes note in the daily	Provides technical assistance if	Maxxam to maintain Canister Inventory
	email indicating if a canister has	required during change-out.	Tracking Sheet for each trailer.
	been triggered or not, as well as the		
	time and concentration for any	Chris Wesson 780-446-2724	Maxxam to provide the up-to-date
	canister triggered.		Canister Event Tracking List by the end of
		Limin Li 403-483-5295	the month each month to PRAMP TPM.
	Maxxam sends a canister change out		
	request by email to local trailer		
_	contacts as well as PRAMP Technical		
a	Program Managers (TPM) as soon as		
Maxxam	the canister event is identied.		
Σ	Maxam resends the canister change		
	out request email to original email		
	list as well as call personnel listed on		
	the Call Down List if no response		
	within 4 hours.		
	Maxxam escalates to PRAMP TPM if		
	no response within 24 hours of initial		
	notification.		
4P	PRAMP Committee is included on the		
PRAMP	daily email distribution list.		
PR			
Δ.	PRAMP TPM to be contacted by		
Σ:	Maxxam if no response from Local Trailer Contacts within 24 hours of		
PRAMP			
۵	initial notification.		
cts	Receives alert from Maxxam and	Changes out canister according to	
Contacts	confirms with Maxam the canister	Canister Change out Instructions	
0	will be changed.	posted in the trailer.	
C			
List		Fills in the Analysis Request Form.	
5		Sends the canister to Innotech Lab.	
Call Down		Notify Maxxam when the canister will	
		be changed and confirm the time the	
Sal		canister is changed.	
		cumster is changed.	Conducts analysis. Sends results to
T a			Karla, PRAMP TPM and PRAMP Office
þe			Manager.
Innotech Alberta			
ch .			Results to include:
ote			* Analytical results (PDF and Excel)
Ĭ.			* Canister Analytical Request Form (copy
=			from the field)



#### Canister Trigger – Contact List

	PRAMP 986 Station	PRAMP 842 Station	PRAMP Reno Station
Mayyana	Adewunmi Adekanmbi	Adewunmi Adekanmbi	Adewunmi Adekanmbi
Maxxam –	403-219-3677	403-219-3677	403-219-3677
Sends out alert in daily	aadekanmbi@maxxam.ca	aadekanmbi@maxxam.ca	aadekanmbi@maxxam.ca
data	addekaninbi@maxxam.ca	addekaiiiibi@iiiaxxaiii.ca	addekannibi@maxxam.ca
	Michael Espiritu	Michael Espiritu	Michael Espiritu
	587-439-1525	587-439-1525	587-439-1525
	mespiritu@maxxam.ca	mespiritu@maxxam.ca	mespiritu@maxxam.ca
	Limin Li	Limin Li	Limin Li
	403-219-3679	403-219-3679	403-219-3679
	LLi@maxxam.ca	LLi@maxxam.ca	LLi@maxxam.ca
Call Down List –	Jason Parker	Travis Tiffin	Jesse Gauchier
Phone Call from	780-618-4333	780-618-5098	780-617-4347
	Jason.parker@shell.com	travis.tiffin@pennwest.com	jesse.gauchier@baytex.ab.ca
Maxxam until someone	Jason.parker@snen.com	travis.timi@perinwest.com	Jesse.gaucifier@baytex.ab.ca
has confirmed the	Kate Humphreys	Roland Young	John Hickley
canister will be changed	780-617-4967; 780-624-6830	780-625-6275	780-625-2057
	-		
	Kate.humphreys@shell.com	roland.young@pennwest.com	john.hickley@baytex.ab.ca
	Robyn Kutz-Semeniuk	Greg Kent	Reno South
	780-617-7937	780-618-8904	Jesse Gauchier
	Robyn.KutzSemeniuk@shell.com	greg.kent@pennwest.com	John Hickley
			780-625-1402
	Tye Barrett	Tom Bissell	
	780-886-2994; 780-624-6826	780-617-0131	
	Tye.barrett@shell.com	tom.bissell@pennwest.com	
		Art Laurin	
		780-536-6570	
		art.laurin@pennwest.com	
		a a a a a a a a a a a a a a a a a a a	
DD A MAD TDM4	Mike Bisaga / Lily Lin	Mike Bisaga / Lily Lin	Mike Bisaga / Lily Lin
PRAMP TPM -	780-266-7068	780-266-7068	780-266-7068
To be contacted if there			
is no response from	587-225-2248	587-225-2248	587-225-2248
Local Trailer Contacts	pramptech@prampairshed.ca	pramptech@prampairshed.ca	pramptech@prampairshed.ca
within 24 hours of email			



#### **Example of Canister Event Tracking List**

# PRAMP 842 Station Non-Methane Hydrocarbons High Alarm Record Trigger set at 0.3 ppm

Event				nister (	Change Out	
Date	Time	Reading	Date	Time	Performed By	Notes



#### **Example of Analysis Request Form**

Highway 16A & 75 Street
PO Bag 4000
Vegreville, AB T9C 1T4
Environmental Analytical Services
Phone: (780) 632-8403 Fax: (780) 632-8620

EAS	CANISTER
CHAIN OF	CUSTODY FORM

Affix AITF Label Here

Date Received- Lab Use Only				

Client Contact Details:				RUSH (Sure	harge)			
Contact:	ntact: Karla Ressor, Michael Bisaga/ Lily Lin			Invoice Instructions:				
Company: PRAMP Airshed			Send to " off	icemanager@prampairshe	d.ca", karla@prampai	rshed.ca,		
PO#:	PRAMP 986 St	ation		pramptech@	prampairshed.ca At	tention: PRAMP Offic	ee Manager	
Address:	Latitude 56.376	056N, Longitude 116.9407	04W	Any correspo	ndence related to canister	analysis, send the infe	ormation to karla@prampairshed.ca	
				and pramptech@prampairshed.ca				
Telephone:	403-8072995, 7	780-2667068/587-2252248		InnoTech Contact: Graham Knox Phone: 780-6328403 Cell: 780-6321519				
Email: <u>karla@prampairshed.ca, pramptech@prampairshed.c</u>		pairshed.ca	Email: Graham Knox@innotechalberta.ca					
	Sample ID	Canister Number			Date/Time Sampled From/To			
`	l appear on report)	Sampler ID	Sample Description	on/Source	Date (dd/mm/yy)	Time (24 Hr) (MST)	Analysis Requested	
PRAMP_98	86-		Collected By:  Company:  Contact Number:  Date/Time (MST) C	ollected:			AIR C1C4, AIR VOC, AIR RSC	



#### **Example of Canister Change Out Instruction**

#### PRAMP - PEACE RIVER AREA MONITORING PROGRAM

## Canister Change out Instructions 986 Station

September 2017

#### **Trigger Notification**

Operator has been notified that the canister needs to be changed. The notification from Maxxam must include the date and time the canister was triggered at (this is the Date/Time Triggered).

#### **Procedure for Collecting Canister**

- Check Canister pressure (if it is close to ZERO that means canister was triggered).
  - a. If the canister still has a negative pressure of -10"Hg or greater, the canister has likely not collected the sample properly and is not representative. The canister should be replaced and sent into InnoTech Alberta Lab with an explanation.
- Shut off canister valve.
- 3) Undo the 9/16" nut directly above the canister's valve
- Cap canister and put in box for shipping.
- 5) Fill out Canister Label:

This cleaned canister meet or exceeds TO-15 Method Specifications	Sample ID: PRAMP_986-20160101		
Proofed by: InnoTech on Jan 1, 2016	Sampled By:		
Canister Expiration: 3 months post evacuation Laboratory Centart Number 780 632-8463	Starting Vacuum:	End Vacuum:"Hg	

- <u>Sample ID</u>: This has to match the Sample ID on the Canister Analytical Request Form. This needs
  to be a unique identifier for the sample, so please follow this naming convention:
  - PRAMP\_986 YYYYMMDD

    The date is the date the canister was triggered (included in the alert from Maxxam); this is
    usually the day before the canister is collected.
- Sampled By: Name of Operator switching out the canister
- <u>End Pressure:</u> Please fill this out in psig or "Hg, just note which units. If the canister sampled properly, this should be close to 0.



#### 6) Fill out Canister Analytical Request Form:

CinnoTech
ALBERTA
Highway 15A & 75 Street
PO Bag 4000

Client Contact Details:

Posperville. AB T9C 1T4
Environmental Analytical Services
Phone...(780) 632-8403 Fax: (780) 632-8620

#### EAS CANISTER CHAIN OF CUSTODY FORM

Affix AITF Label Here

Date Received- Lab Use Only	

Contact:	ontact: Karla Ressor, Michael Bisaga/ Lify Lin			Invoice Instructions:				
Company:	Company: PRAMP Airshed			Send to " off	Send to " officemanager@prampairshed.ca", karla@prampairshed.ca,			
PO#:	PRAMP 986 St	ation		pramptech@	prampairshed.ca At	tention: PRAMP Offic	ce Manager	
Address:	Latitude 56.376	056N, Longitude 116.9407	04W	Any correspo	endence related to canister	analysis, send the inf	formation to karla@prampairshed.ca	
				and prampte	:h@prampairshed.ca			
Telephone:	403-8072995, 7	80-2667068/587-2252248		InnoTech Co	ntact: Graham Knox	Phone: 7	80-6328403 Cell: 780-6321519	
Email:	karla@prampaii	rshed.ca, pramptech@pram	pairshed.ca		un Knox@innotechalberta		<u> </u>	
					Date/Time	Sampled	I	
-	Sample ID I appear on	Canister Number	Sample Description	Even			Analysis Requested	
•	report)	Sampler IID	Sample Description	m/source	Date (dd/mm/yy)	Time (24 Hr) (MST)	Ziminy sis recquested	
PRAMP_986-20160201		12345	Collected By: IYE BARREIT Company: SHELL Contact Number: 780-555-6666 Date/Time (MST) Co		01/01/2016	0900Ь	AIR C1C4, AIR VOC, AIR RSC	

RUSH (Surcharge)



- <u>Sample ID</u>: This has to match the Sample ID on the Canister Label. This needs to be a unique
  identifier for the sample, so please follow this naming convention:
  - o PRAMP 986-YYYYMMDD

The date to use here is the date the canister was triggered; this information will come from Maxxam.

- Canister Number: The number showing on the canister. This should match the Canister Label.
- <u>Collected By:</u> The name of the Operator switching out the canister. This should match the Canister Label.
- . Company: The company of the Operator switching out the canister.
- . Contact Number: The phone number of the Operator switching out the canister.
- Date/ Time Collected: This is the date and time (MST) the Operator switched out the canister.
- <u>Date/Time Triggered:</u> This is the date and time (MST) that the canister was triggered. Maxxam will
  provide this information when the alerts are sent out to change the canister.
- Install a new canister.
- 8) Ensure new canister is not expired. Canisters are expired if it is more than 3 months since the evacuation date on the canister label. If there are expired canisters, please package up the canister to send to AITF and prepare the Canister Analytical Request Form with the comment "unused canister past expiration date".
- Remove the cap from the new canister and place the flow-regulator and tubing on top of the canister's valve. Tighten the 9/16" nut to ensure an air-tight seal.
- 10) Open the canister valve.
- 11) Press the black reset button for at least 2 seconds
- 12) Fill out the Trailer Log-Book form according to example below:

#### Trailer Log-Book Example:

Date/Contact	Journal Entry
Feb 1, 2014 –	Removed Canister ID: H3281 @ 17:08 @ Opsi
Tye Barrett (587)-555-6666	Sample ID: PRAMP_986-20160201
(20.7 20.2 20.2	Installed Canister ID: H2800 @ 17:11 @ -29 psi

Technical Contact: For problems/issues with the air monitoring trailer that require immediate assistance, please Chris Wesson at (780) 446-2724.

Note: When a canister is triggered, the canister must be shipped to the Lab for analysis within 14 days so it does not pass the canister sample hold time. The sample hold time is 21 days.