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Standard Operating Procedure for Document Control and Storage for the PM_{2.5} Chemical Speciation Program

Environmental and Industrial Sciences Division RTI International* Research Triangle Park, North Carolina

Prepared by: Diagon M. New Date: 2-19-09

Reviewed by: Date: 2-19-09

Approved by: Date: 2-19-09



^{*} RTI International is a trade name of Research Triangle Institute.

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1.0 Procedural Section

1.1 Purpose and Applicability

The PM_{2.5} Chemical Speciation Program produces reports and documents, such as monthly summary reports, monthly data reports, standard operating procedures (SOPs), Quality Assurance Project Plans (QAPPs), and special study reports. Reports, such as monthly reports and special study reports, are numbered consecutively.

The PM_{2.5} Financial Services Program Coordinator (FSPC) is responsible for filing and maintaining these materials and for maintaining a log of all stored documents. The log is maintained in a Microsoft Excel spreadsheet on the FSPC's personal computer and/or a public drive connected to an RTI server. An example of this log appears in Appendix A.

1.2 Document Distribution

The FSPC is responsible for keeping a distribution list for each document (or set of documents) that is submitted to the PM_{2.5} Project Officer.

Final versions of the SOPs and QAPP are kept on an RTI internal server in WordPerfect, Microsoft Excel, Microsoft Word, or PDF format for access by all RTI/PM_{2.5} staff. Each time a document is revised, the FSPC uploads the current file and deletes the previous version. All staff on the distribution list are granted read-only access to these files and may download or print the latest version of these files at any time. Laboratory Supervisors are responsible for ensuring that the latest versions of the QAPP and relevant SOPs are available in the work areas, as required by the QAPP.

1.3 Document Storage (Hard Copies)

Hard copies and archived compact disks are stored in the FSPC's master files in Building 3, Room 208. These documents are stored until the completion date of the contract. After the completion of the contract, these documents and any other related files are transferred to an off-site warehouse where they are stored for an additional 5 years after contract completion.

Appendix A—Sample Document Control Log

Туре	Title	Date Revised	Author	Document No.
. , , , ,	Standard Operating Procedure for	Dato Novidou	71411101	Dodamont ito:
SOP	Sample Handling and Archiving			
	Laboratory (SHAL)	2/18/2009	O'Rourke	
	Standard Operating Procedure for			
SOP	Shipping Filters to and from an Off-Site	0/40/0000	5 .	
	Laboratory	2/18/2009	Peterson	
SOP	Standard Operating Procedure for Long-Term Archiving of PM Filters and			
301	Extracts	5/13/2008	C. Haas	
	Standard Operating Procedure for	3/13/2000	O. Haas	
SOP	Procurement and Acceptance Testing			
	of Teflon, Nylon, and Quartz Filters	2/16/2008	E. Hardison	
	Standard Operating Procedure for			
SOP	Cleaning Nylon Filters Used for the			
	Collection of PM _{2.5} Material	5/13/2008	E. Hardison	
000	Standard Operating Procedure for			
SOP	Particulate Matter (PM) Gravimetric	7/0/2000	Croops	
	Analysis Analysis of Elements in Air Particulates	7/8/2008	Greene	
SOP	by X-Ray Fluorescence (Kevex 770 &			
	772)	2/3/2009	Chester	
	Kevex XRF Spectrometer Calibration			
SOP	(CHESTER LabNet Proprietary			
	Method)	1/8/2008	Chester	
	Kevex Spectrometer Data Generation,			
SOP	Interpretation and Reporting			
	(CHESTER LabNet Proprietary Method)	1/30/2009	Chester	
	Sample Receipt and Log In Chester	1/30/2009	Onestei	
SOP	LabNet Proprietary Method	6/20/2008	Chester	
	Standard Operating Procedure for the	0/20/2000	U otto.	
SOP	X-Ray Fluorescence Analysis of			
SUP	Particulate Matter Deposits on Teflon			
	Filters	July 2008	McWilliams	
SOP	Standard Operating Procedure for	F/40/2222		
	PM _{2.5} Anion Analysis	5/13/2008	E. Hardison	
SOP	Standard Operating Procedure for	5/13/2008	E. Hardison	
-	PM _{2.5} Cation Analysis DRI Model 2001 Thermal/Optical	3/13/2000	E. FIATUISUII	
	Carbon Analysis (TOR/TOT) of Aerosol			
SOP	Filter Samples – Method IMPROVE_A	7/1/2008	DRI	
	Standard Operating Procedure for the			
	Determination of Carbon Fractions in			
	Particulate Matter Using the			
005	IMPROVE_A Heating Protocol on a	0/40/0000	Determ	
SOP	DRI Model 2001 Analyzer	2/13/2008	Peterson	

Туре	Title	Date Revised	Author	Document No.
712-2	Standard Operating Procedures for			
	Temperature Calibration of the Sample			
	Thermocouple in a Sunset Laboratory			
	or a DRI Model 2001 Carbon Aerosol			
SOP	Analyzer	2/13/2009	Peterson	
	Standard Operating Procedure for the	2/10/2000	1 01010011	
	Determination of Organic, Elemental,			
	and Total Carbon in Particulate Matter			
	Using a Thermal/Optical-Transmittance			
SOP	Carbon Analyzer	2/16/2009	Peterson	
301	Standard Operating Procedure for the	2/10/2009	1 6(613011	
	Determination of Carbon Fractions in			
	Particulate Matter Using the			
COD	IMPROVE_A Heating Protocol on a	2/42/2000	Deteroop	
SOP	Sunset Laboratory Dual-Mode Analyzer	2/13/2009	Peterson	
	DRI Standard Operating Procedure:			
COD	Analysis of Semi-Volatile Organic	0/04/0000	DDI	
SOP	Compound by GC/MS	2/21/2003	DRI	
	Standard Operating Procedure for			
	Sample Preparation and Analysis of			
000	PM ₁₀ and PM _{2.5} Samples by Scanning	7/0/0000	0 1 1	
SOP	Electron Microscopy	7/8/2008	Crankshaw	
	Standard Operating Procedure for			
	Coating and Extracting Annular			
SOP	Denuders with Sodium Carbonate	7/8/2008	Eaton	
	Standard Operating Procedures for			
	Coating Aluminum Honeycomb		_	
SOP	Denuders With Magnesium Oxide	2/17/2009	Eaton	
	Standard Operating Procedure for			
	Coating Annular Denuders with XAD-4			
SOP	Resin	5/9/2008	Eaton	
	Procedures for Coating R&P			
	Speciation Sampler Chemcomb™			
SOP	Denuders with Sodium Carbonate	5/21/2008	Eaton	
	Standard Operating Procedure for			
	Coating and Extracting Denuders for			
	Capture of Ammonia and Its			
SOP	Measurement	2/14/2008	Eaton	
1	Standard Operating Procedure for			
SOP	Database Operations	5/8/2008	Rickman	
1	Standard Operating Procedure for			
	Assigning Data Validation Flags for the			
SOP	Chemical Speciation Network	5/15/2008	Wall	
	Standard Operating Procedure—			
	Speciation Data Processing Disaster			
SOP	Recovery Plan	5/21/2008	Rickman	
	Standard Operating Procedure for the			
	X-Series ICP-MS for the Analysis of			
SOP	Particulate Deposits on Teflon Filters	7/8/2008	Weber	
	DRI Standard Operating Procedure:			
SOP	Procedure for Light Transmission	7/14/2009	DRI	
307	I TOUGUUTE TOT LIGHT TTAHSHIISSIUH	7/14/2008	טאו	

Туре	Title	Date Revised	Author	Document No.
	Analysis			
	Standard Operating Procedure for			
	Document Control and Storage for the			
SOP	PM _{2.5} Chemical Speciation Program	2/18/2009	D. Haas	
	Standard Operating Procedure for			
000	Corrective Action for the PM _{2.5}	F /04 /0000	- 1/11	
SOP	Chemical Speciation Program Standard Operating Procedure for	5/21/2008	Flanagan/Haas	
	Training for Staff Working on the PM _{2.5}			
SOP	Chemical Speciation Program	5/8/2008	O'Rourke	
301	QAPP for PM2.5 of Chemical	3/0/2000	Ortoure	
QAPP	Speciation Samples	2/29/09	RTI	RTI/08858/12/01S
Data	Semi-Annual Data Summary Report	1/30/2004	RTI	RTI/8858/01QAS
Data	Semi-Annual Data Summary Report	7/31/2004	RTI	RTI/8858/02QAS
Data	Semi-Annual Data Summary Report	5/12/2005	RTI	RTI/8858/03QAS
Data	2005 Annual Data Summary Report	7/19/2006	RTI	RTI/8858/04QAS
Data	2006 Annual Data Summary Report	2/28/2007	RTI	RTI/8858/05QAS
Data	2007 Annual Data Summary Report	2/29/2008	RTI	RTI/8858/06QAS
Data	2008 Annual Data Summary Report	2/29/2009	RTI	RTI/8858/07QAS
	XRF Uncertainties	10/14/2004	RTI	RTI/08858/TO2/01D
Report	Review of Sodium Ion Contamination	10/14/2004	KII	K11/06636/102/01D
Report	Issue for STN	1/19/2005	RTI	RTI/08858/12/02S
report	Teflon Filter Manufacturing Defects	1/10/2000	1(1)	111/00000/12/020
Report	March - April 2005	8/23/2005	RTI	RTI/08858/12/03S
	Test of Acceptance of XRF Instrument			
Report	#772 Operated by Chester LabNet	12/20/2005	RTI	RTI/0208858/TO2/02D
- 1	Tests of Acceptance of X-ray	May, 2006	RTI	RTI/0208858/TO2/03D
	Fluorescence Instrument #3 Operated	,		
Report	by RTI International			
	Harmonization of Interlaboratory X-ray			
	Fluorescence Measurement	_ , , ,		
Report	Uncertainties	8/4/2006	RTI	RTI/0208858/TO2/04D
	Reporting Uncertainties for Artifact-			
Donor	Corrected Carbon Data for the URG	10/0/2027	חדיו	DTI/02000E0/TCD/04D
Report	3000N Sampler RTI International PM2.5 Speciation Trends Network	10/9/2007	RTI	RTI/0208858/T6B/01D
	Measurement Uncertainties and			
Report	Method Detection Limits	1/8/2008	RTI	RTI/0208858/12/04S
ιτοροιτ	MOUTOU DOLOGIOTI EITIILO	1/0/2000	13.11	111/0200000/12/040