SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson		Page 1 of 11				
SDG No:	180 -41935	Analysis:	See attached				
Laboratory:	TestAmerica Pittsburgh	Method: Matrix:	See attached Water				
data have be e n su	ackage has been reviewed and the mmarized. The general criteria us ination of the following:	analytical quality coed to assess the ar	ontrol/quality assurance performance nalytical integrityof the data were				
	Case Narrative Analytical Holding Times Sample Preservation	orto					
	Project Blanks						
Project Specific Q/	VQC or contract requirements may	/ take priority over v	validation criteria in this procedure.				
Overall Remarks	Overall Remarks: No major 35 ucs 506 page 2 disussing						
Mamero	us Bertone detectros	10 g	18 samples of sundar				
Definition of Qualifi	ers: "U", not detected at the associated "UJ", not detected and associated "J", associated value estimated "R", associated value unusable or "=", compound properly identified	value estimated analyte identity uni	founded				
Reviewed by:	Man G, Miller) 1	· Own	Date: 3/0-7/15				
QA Reviewed by:	Offfice		Date: <u>6-23-15</u>				

	Page 2 of 11
I. Case Narrative	
Verify direct statements made within the Laboratory Case Narrative (no	te discrepancies).
Remarks: Internal Standard Rospanso	issu for Models.
	11 1
* Note all integer responses out	Code Kays are compared
to the labs should on	that is never stringet
Hun what The EPA CLP N	ather typically Gudalile
16 comads (60 - 125), when con	pury do Mo EPA
Standard of 60-125 all	RESponses are with
Standard De GO 129	
rengle. At qualitienting 15	Newlad
II. Re-analysis and Secondary Dilutions	
Verify that re-enalysis and secondary dilutions were performed and rep	ported as necessary. Determine
appropriate results to report.	
Remarks:	

III. Holding Times

VOC - Waters - unpreserved: aromatic within 7 days, non-aromatic within 14 days of sample collection

VOC - Waters - preserved: aromatic and non-aromatic within 14 days of sample collection

VOC - Soils - preserve or analyze within 48 hours of sample collection; analyze within 14 days of preservation

SVOC, Pest., PCB - Waters - extract within 7 days of sample collection, analyze within 40 days of extraction SVOC, Pest., PCB - Soils - extract within 14 days of sample collection, analyze within 40 days of extraction

Deviations:

	VOC			SVOC			Pest/PCB	
Sample #	Date	Date	Date	Date	Date	Date	Date	Date
	Collected	Analyzed	Collected	Extracted	Analyzed	Collected		Analyzed
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	-							
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Actions:

 If holding times are exceeded, all results are qualified 	as estim	ated (J/UJ
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2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks:	marks: No 1354aS				
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	·				
					

III. Holding Times

Metals - Waters - preserved to pH<2, 180 days from sample collection

Metals - Soils - 180 days from sample collection

Mercury - Waters - preserved to pH<2, 28 days from sample collection

Mercury - Soils - 28 days from sample collection

Deviations:

Deviations.		Metals				Mercury		
Sample #	Date	Date	Days	рН	Date	Date	Days	рН
	Collected	Analyzed	>HT	Check	Collected	Analyzed	>HT	Check
			-					
	<u> </u>							

Actions:

- 1. If preserved samples exceed holding time, qualifty all associated results as estimated (J/UJ).
- 2. If unpreserved samples exceed holding time, qualify all associated results as unusable (R).
- 3. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)
- 4. If water samples are not acidified, use professional judgement. Minimally, qualify data as estimated (J) and non-detects unusable (R).
- 5. If soil samples exceed holding time, use professional judgement to qualify data.

Remarks:	No 135465	

III. Holding Times

Sample should be preserved and analyzed according to the appropriate analytical method in general the following preservations and holding times for waters can be applied:

Sulfate, 4 degress C, 28 days

Sulfide, 4 degrees C, pH ≥9 with zinc acetate/sodium hydroxide, 7 days

Bromide/Chloride/Fluoride, no preservative required, 28 days

Nitrate/Nitrite or Ammonia, 4 degrees C, pH ≤ 2 with sulfuric acid, 28 days

Nitrate or Nitrite, 4 degrees C, 48 hours

Alkalinity, 4 degrees C, 14 days

TDS/TSS, 4degrees C, 7 days

Phosphate (total), 4 degrees C, pH < 2 with sulfuric acid, 28 days

Hexavalent Chromium, Cool 4 degress C, water- 24 hours, soil - 30 days

Deviations:

Sample #	Analyte	Date Collected	Date Extracted	Date Analyzed	Notes:

Actions:

- 1. If holding times are exceeded, all results are qualified as estimated (J/UJ)
- 2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)
- 3. If samples were not properly preserved, use professional judgement to qualify the data

emarks:	No 1854	<u>~</u>	

VI. Blanks			Р	age 6 of 11
to analyze VOCs	s and CVOCs Yes	No	el for each 12 hour period on each . List documented contamination be	
Laboratory Mo	ethod Blanks:			
Date:	Lab ID#	Fraction	Compound	Conc. (ppb)
/				
Associated P	roiset Blanke /e a	equipment rins	sates, trip blanks, etc.)	
ASSOCIATED P	i oject bialiks (e.g.,	edaibiliencing	sates, trip blatiks, cto./	
Date	Lab ID #	Fraction	Compound	Conc. (ppb)
				Conc. (ppb)
	Lab ID #		Compound	Conc. (ppb)
Date	Lab ID #	Fraction	Compound	Conc. (ppb)
Date	Lab ID #	Fraction	Compound	Conc. (ppb)

VI. Blanks (continued)

Calculate action levels based on 10X the highest blank concentration of "common laboratory solvents", VOCs (methylene chloride, acetone, toluene, 2-butanone, cyclohexane) or SVOCs (phthalates), and 5X the highest blank concentration for all other VOC, SVOC, Pesticides, and PCB compounds. Sample weights, volumes, and dilution factors must be taken into account when applying the 5X and 10X criteria. This allows the total amount of contaminant present to be considered.

Dev	***	 -	DO:	-	M
1 / He V	7 1 24	 	ш	-	

	Maximum Conc.	Action Level (ppb)	Samples Affected
Compound	Detected, (ppb)		•
		7.	
-			
			

Actions:

- 1. If compound results exceed the action levels, the data are not qualified
- 2. If compound results are below the required reporting level, report results as non-detect (U) at the reporting level
- 3. If the compound is detected above the reporting level, but below the action level, qualify as not-detected (U)
- 4. If gross contamination exists in blanks (i.e.,, saturated peaks by GC/ MS), all affected compounds in the associated samles should be qualifed as unusable (R) due to interference.
- 5. If blanks were not analyzed per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs use professional judgement to qualify data. Data may be rejected (R).

Remarks:	_	No	155465			
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Hold Time Summary

Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-41935-1	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-10	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-11	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-12	MCAWW 300.0	3/10/2015	3/12/2015		;
180-41935-13	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-14	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-15	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-16	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-17	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-17	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-2	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-3	MCAWW 300.0	3/10/2015	3/11/2015		
180-41935-4	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-5	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-6	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-7	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-8	MCAWW 300.0	3/10/2015	3/12/2015		:
180-41935-9	MCAWW 300.0	3/10/2015	3/12/2015		
180-41935-1	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-10	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-11	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-12	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-13	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-14	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-15	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-16	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-17	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-2	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-3	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-4	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-5	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-6	SM SM 23208	3/10/2015	3/21/2015		1
180-41935-7	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-8	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-9	SM SM 2320B	3/10/2015	3/21/2015		1
180-41935-1	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	1
180-41935-10	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	1
180-41935-11	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	1
180-41935-12	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	1
180-41935-13	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	1
180-41935-14	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	1

Friday, March 27, 2015 Page 1 of 2

Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-41935-15	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-16	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-17	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-2	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-3	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-4	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-5	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-6	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-7	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-8	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-9	SW846 6020A	3/10/2015	3/20/2015	3/16/2015	10
180-41935-1	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-10	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-11	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-12	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-13	SW846 8260C	3/10/2015	3/19/2015		9
180-41935-14	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-15	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-16	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-17	SW846 8260C	3/10/2015	3/19/2015		9
180-41935-18	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-2	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-3	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-4	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-5	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-6	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-7	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-8	SW846 8260C	3/10/2015	3/17/2015		7
180-41935-9	SW846 8260C	3/10/2015	3/17/2015		7

Friday, March 27, 2015 Page 2 of 2

Trip Blank Detections

Sample ID Sample Analyte Result Method Units Qual

No blan detections

AGM
3/27/15