# SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson		Page 1 of 11	
SDG No:	180-41613-1	Analysis:	See attached	
Laboratory:	TestAmerica Pittsburgh	Method: Matrix:	See attached Water	_
data have been su	ackage has been reviewed and the umarized. The general criteria use nination of the following:	analytical quality co	ntrol/quality assurance performance alytical integrityof the data were	
	Case Narrative Analytical Holding Times Sample Preservation			
	Project Blanks			
Project Specific Q	A/QC or contract requirements may	take priority over v	alidation criteria in this procedure.	
Overall Remarks	: Hold to	no 185 m	· S	_
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Definition of Qualif	iers: "U", not detected at the associated "UJ", not detected and associated "J", associated value estimated "R", associated value unusable or	value estimated	nunded	-
Reviewed by:	"=", compound properly identified a	and value positive	Date: 3/18/15	
QA Reviewed by	: CARue			



					r	age 2 of 11
I. Case Narrat	tive					
Verify direct stat	tomonte made u	ithin the Laho	ratory Case Nar	rative (note	discrenancies)	
verily direct stat	terrierits made w	)	atory Case Har		A. I	
Remarks:	Hold	time	issues	tor	Nitrates	
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·	-					
				·-		
		Dilution				
II. Re-analysis	s and Second	ary Dilution	S			
Varify that rates	solveis and seco	ndary dilutions	were performe	d and report	ed as necessary.	Determine
appropriate resu	ulis to report	indai y diidilona	were periorine	a ana ropon	od do Hoododa y.	S C C C C C C C C C C C C C C C C C C C
appropriate rest	unto o report.					
Remarks:						
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# **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	Extracted	Analyzed
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- 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)

Remarks: _	Me issues	E .
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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	pH
	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:	100	issues	 

# **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	Date	Date Analyzed	Notes:
180-41613-4 -5 -6	Widrate	2/27/15	Extracted	3/1/15	7-
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-6				,	
-7				4	
-8				`	
-9	V			V	V
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#### **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

Remarks:		 	C6	abor	16	
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VI. Blanks			Pa	age 6 of 11
to analyze VOC	s and SVOCs Yes	No	for each 12 hour period on each	
Laboratory M	ethod Blanks:			
Date:	Lab ID#	Fraction	Compound	Conc. (ppb)
		-		
Associated P	roject Blanks (e.g.,	equipment rinsat	es, trip blanks, etc.)	
Date	Lab ID #	Fraction	Compound	Conc. (ppb)
Remarks:		No dod	andre S	
Remarks:		No dod	andre S	
Remarks:		No dod	andre S	

# 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.

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_	Maximum Conc.	Action Level (ppb)	Samples Affected
Compound	Detected, (ppb)		
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#### **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.

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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).

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Remarks:	Ne	pe defections,					

# Hold Time Summary

Sample Number	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-41613-4	MCAWW 300.0	2/27/2015	3/1/2015		2
180-41613-5	MCAWW 300.0	2/27/2015	3/1/2015		2
180-41613-6	MCAWW 300.0	2/27/2015	3/1/2015		2
180-41613-7	MCAWW 300.0	2/27/2015	3/1/2015		2
180-41613-8	MCAWW 300.0	2/27/2015	3/1/2015		2
180-41613-9	MCAWW 300.0	2/27/2015	3/1/2015		2
180-41613-4	SM SM 2320B	2/27/2015	3/11/2015		12
180-41613-5	SM SM 2320B	2/27/2015	3/11/2015		12
180-41613-6	SM SM 2320B	2/27/2015	3/11/2015		12
180-41613-7	SM SM 2320B	2/27/2015	3/11/2015		12
180-41613-8	SM SM 2320B	2/27/2015	3/11/2015		12
180-41613-9	SM SM 2320B	2/27/2015	3/11/2015		12
180-41613-4	SW846 6020A	2/27/2015	3/12/2015	3/3/2015	13
180-41613-5	SW846 6020A	2/27/2015	3/12/2015	3/3/2015	13
180-41613-6	SW846 6020A	2/27/2015	3/12/2015	3/3/2015	13
180-41613-7	SW846 6020A	2/27/2015	3/12/2015	3/3/2015	13
180-41613-8	SW846 6020A	2/27/2015	3/12/2015	3/3/2015	13
180-41613-9	SW846 6020A	2/27/2015	3/12/2015	3/3/2015	13
180-41613-1	SW846 8260C	2/27/2015	3/10/2015		11
180-41613-2	SW846 8260C	2/27/2015	3/10/2015		11
180-41613-3	SW846 8260C	2/27/2015	3/11/2015		12
180-41613-4	SW846 8260C	2/27/2015	3/10/2015		11
180-41613-5	SW846 8260C	2/27/2015	3/10/2015		11
180-41613-6	SW846 8260C	2/27/2015	3/10/2015		11
180-41613-7	SW846 8260C	2/27/2015	3/11/2015		12
180-41613-8	SW846 8260C	2/27/2015	3/11/2015		12
180-41613-9	SW846 8260C	2/27/2015	3/11/2015		12

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# Trip Blank Detections

Sample ID Sample Analyte Result Method Units Qual

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