SCIENCE APPLICATIONS INTERNATIONAL CORPORATION Organic Data Review Checklist - Standard Validation

Project:	Harley-Davidson		Page 1 of 11
SDG No:	180-48959-1	Analysis:	See attached
		Method:	See attached
Laboratory:	TestAmerica Pittsburgh	Matrix:	Water
2			
data have been s	package has been reviewed and the summarized. The general criteria us mination of the following:	analytical quality c ed to assess th e ar	ontrol/quality assurance performance nalytical integrityof the data were
	Case Narrative Analytical Holding Times Sample Preservation		
	Project Blanks		
Project Specific (QA/QC or contract requirements may	take priority over v	alidation criteria in this procedure.
Overall Remark	s: Qualitien ;	suas	
-			
	=		
 	· · · · · · · · · · · · · · · · · · ·		
Definition of Qual	ifiers: "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 un	founded
Reviewed by:	ale DAM Alen	G. Miller JA	Date:
QA Reviewed by	y: CARul		

	2
	Page 2 of 11
I. Case Narrative	
Verify direct statements made within the Laboratory Case	Narrative (note discrepancies).
Tromand.	
II. Re-analysis and Secondary Dilutions	
Verify that re-enalysis and secondary dilutions were perforance results to report.	rmed and reported as necessary. Determine
Remarks:	
	77.

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
								<u> </u>
								<u> </u>
								<u>-</u>
						-		
<u></u>	+							
								
	+ -							

Δ	c+	io	10%	0	
$\overline{}$.IV		J	

i. If notaing times are	e exceeded, all results are	e qualified as estimated	(J/UJ)
-------------------------	-----------------------------	--------------------------	--------

 If notding times are exceeded by more than 2X, reviewed 	may quali	lify non-detected	i result:	s as unusable	: (F	۲)
---	-----------	-------------------	-----------	---------------	------	----

Remarks:	No issuas

VI. Blanks			Pa	ge 6 of 11
to analyze VO	Cs and CVOCs Yes	No	el for each 12 hour period on each G List documented contamination bel	
Laboratory !	Method Blanks:			
Date:	Lab ID#	Fraction	Compound	Conc. (ppb)
		/		
1				
A	District Display to a	to constante	and an Arthur Internation and a N	•
Accodiator	Project Rights 18 d	edunment ring	sates, trip planks, etc.)	
Date	Lab ID #	Fraction	Sates, trip blanks, etc.) Compound	Conc. (ppb)
				Conc. (ppb)
Date		Fraction	Compound	Conc. (ppb)
				Conc. (ppb)
Date		Fraction	Compound	Conc. (ppb)

VI. Blanks (continued)

Davidations

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.

·	Maximum Conc.	Action Level (ppb)	Complex Affects
_		Action reset (bbb)	Samples Affected
Compound	Detected, (ppb)		
	i		
		 	
			-
		 	
		1	

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	Slarks	
	 · .		
-	 		

Hold Time Summary

5DG 180-48259-1

Sample Num	ber Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-48259-1	HD-MW-113-0/1-0	SW846 8260C	9/29/2015	10/5/2015		6
180-48259-2	HD-MW-127-0/1-0	SW846 8260C	9/29/2015	10/6/2015		7
180-48259-3	HD-MW-22-0/1-0	SW846 8260C	9/29/2015	10/6/2015		7
180-48259-4	HD-MW-15-0/1-0	SW846 8260C	9/29/2015	10/6/2015		7
180-48259-4	HD-MW-15-0/1-0	SW846 8260C	9/29/2015	10/7/2015		8
180-48259-5	HD-QC11-0/1-2	SW846 8260C	9/29/2015	10/6/2015		7
180-48259-1	HD-MW-113-0/1-0	SW846 8270D LL	9/29/2015	10/8/2015	10/2/2015	9
180-48259-2	HD-MW-127-0/1-0	SW846 8270D LL	9/29/2015	10/8/2015	10/2/2015	9

Thursday, November 05, 2015

Blank Detections SDG

Sample ID

Sample

Analyte

Result

Method Units

Qual

Qualifier Check SDG 180-48259-1

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-48259-4	HD-MW-15-0/1-0	1,1,1,2- Tetrachloroethane				SW846 8260C	ug/L	<u>^c</u>
180-48259-1	HD-MW-113-0/1-0	1,1,1-Trichloroethane	15	75	150	SW846 8260C	ug/L	1
180-48259-2	HD-MW-127-0/1-0	1,1,1-Trichloroethane	5.6	28	56	SW846 8260C	ug/L	J
180-48259-3	HD-MW-22-0/1-0	1,1,1-Trichloroethane	0.38	1.9	3.8	SW846 8260C	ug/L	J
180-48259-1	HD-MW-113-0/1-0	1,1-Dichloroethane	6.2	31	62	SW846 8260C	ug/L	J
180-48259-2	HD-MW-127-0/1-0	1,1-Dichloroethane	3.2	16	32	SW846 8260C	ug/L	J
180-48259-2	HD-MW-127-0/1-0	1,1-Dichloroethene	5.7	28.5	57	SW846 8260C	ug/L	J
180-48259-4	HD-MW-15-0/1-0	. 1,4-Dioxane				SW846 8260C	ug/L	nc:
180-48259-2	HD-MW-127-0/1-0	2-Butanone (MEK)				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	2-Butanone (MEK)				SW846 8260C	ug/L	^c
180-48259-3	HD-MW-22-0/1-0	2-Butanone (MEK)				SW846 8260C	ug/L	^c
180-48259-5	HD-QC11-0/1-2	2-Butanone (MEK)				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	2-Hexanone				SW846 8260C	ug/L	^c
180-48259-2	HD-MW-127-0/1-0	Acetone				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	Acetone				SW846 8260C	ug/L	^c
180-48259-3	HD-MW-22-0/1-0	Acetone				SW846 8260C	ug/L	^c
180-48259-5	HD-QC11-0/1-2	Acetone				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	Acrylonitrile				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	Bromoform				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	Bromomethane				SW846 8260C	ug/L	^c
180-48259-3	HD-MW-22-0/1-0	cis-1,2-Dichloroethene	0.39	1.95	3.9	SW846 8260C	ug/L	1
180-48259-4	HD-MW-15-0/1-0	Styrene				SW846 8260C	ug/L	^c
180-48259-4	HD-MW-15-0/1-0	Tetrachloroethene	210	1050	2100	SW846 8260C	ug/L	E
180-48259-2	HD-MW-127-0/1-0	trans-1,2- Dichloroethene	1.8	9	18	SW846 8260C	ug/L	J
180-48259-4	HD-MW-15-0/1-0	Trichloroethene	4.3	21.5	43	SW846 8260C	ug/L	J

Thursday, November 05, 2015 Page 1 of 1