# a Acm 12/2/13

	SCIENCE APPLICATIO Organic Data Revie			
Project:	Harley-Davidson		_	Page 1 of 11
SDG No:	180-48125-1	Analysis:	See Attached	
Laboratory:	TestAmerica Pittsburgh	Method: Matrix:	See Attached Water	
data have been su	ackage has been reviewed and the a ummarized. The general criteria use nination of the following:	nalytical quality co	ontrol/quality assurance alytical integrityof the	e performance data were
	Case Narrative Analytical Holding Times Sample Preservation			
	Project Blanks			
Project Specific Q	A/QC or contract requirements may t	ake priority over v	alidation criteria in this	s procedure.
Overall Remarks	: Qualities Is	Suc.s		
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Definition of Qualif	iers:  "U", not detected at the associated "UJ", not detected and associated v "J", associated value estimated "R", associated value unusable or a "=", compound properly identified at	ralue estimated inalyte identity unf	ounded	
Reviewed by:	alifyly C A	lan G. Miller J	Date:	11/9/15
QA Reviewed by	: VCBOZING		_ Date:	1-25-16

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I. Case Narrative			
Verify direct statemen	nts made within the Laboratory Case	Narrative (note discrepancies).	
Remarks:	No major , 35 res	· · · · · · · · · · · · · · · · · · ·	
•			
		*	
Po-analysis and	d Secondary Dilutions		
	s and secondary dilutions were perfe	rmed and reported as necessar	y Determine
appropriate results	report.	Thica and reported de necessar	y. Bottomino
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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#### **Actions:**

١.	ir nolaing	times are	exceeded,	all results are	e qualified as	estimated	(J/UJ	I)
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2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks:	 0 1554as		
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VI. Blanks			Pa	age 6 of 11
to analyze VC	Cs and SVOCs Yes	No	el for each 12 hour period on each o	
Laboratory	Method Blanks:			
Date:	Lab ID #	Fraction	Compound	Conc. (ppb)
/				
A	Ducinet Blanks (s. s.	equipment ring	netes trip blanks ato	
Associated	i Project Bianks (e.g.,	equipment mis	sates, trip blanks, etc.)	
Date	Lab ID #	Fraction	Compound	Conc. (ppb)
				Conc. (ppb)
		Fraction		Conc. (ppb)
Date		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.

#### **Deviations:**

Maximum Conc.	Action Level (ppb)	Samples Affected
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	Detected, (ppb)	Detected, (ppb)

#### **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:	Noul	
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## Hold Time Summary

Sample Num	ber Sample Name	Method	Date Collected	Analysis Date	Date Extracted	Days to Analysis
180-48125-1	HD-MW-18D-0/1-0	SW846 8260C	9/24/2015	10/5/2015		11
180-48125-2	HD-MW-81S-0/1-0	SW846 8260C	9/24/2015	10/5/2015		11
180-48125-3	HD-MW-81D-0/1-0	SW846 8260C	9/24/2015	10/3/2015		9
180-48125-3	HD-MW-81D-0/1-0	SW846 8260C	9/24/2015	10/5/2015		11
180-48125-4	HD-MW-45-0/1-0	SW846 8260C	9/24/2015	10/5/2015		11
180-48125-5	HD-MW-20S-0/1-0	SW846 8260C	9/24/2015	10/3/2015		9
180-48125-5	HD-MW-20S-0/1-0	SW846 8260C	9/24/2015	10/5/2015		11
180-48125-6	HD-QC8-0/1-2	SW846 8260C	9/24/2015	10/3/2015		9

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### Blank Detections

SDG

Sample ID Sample Analyte Result Method Units Qual

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## Qualifier Check

Sample ID	Sample	Analyte	Result	5x	10x	Method	Units	Qual
180-48125-4	HD-MW-45-0/1-0	1,1,1-Trichloroethane	0.38	1.9	3.8	SW846 8260C	ug/L	J
180-48125-4	HD-MW-45-0/1-0	1,1-Dichloroethane	0.22	1.1	2.2	SW846 8260C	ug/L	J
180-48125-3	HD-MW-81D-0/1-0	1,1-Dichloroethane	4.2	21	42	SW846 8260C	ug/L	J
180-48125-2	HD-MW-81S-0/1-0	1,1-Dichloroethane	12	60	120	SW846 8260C	ug/L	J
180-48125-2	HD-MW-81S-0/1-0	1,1-Dichloroethene	18	90	180	SW846 8260C	ug/L	J
180-48125-3	HD-MW-81D-0/1-0	Carbon tetrachloride	0.4	2	4	SW846 8260C	ug/L	J
180-48125-1	HD-MW-18D-0/1-0	Chloroethane				SW846 8260C	ug/L	^c
180-48125-5	HD-MW-20S-0/1-0	Chloroethane				SW846 8260C	ug/L	^c
180-48125-4	HD-MW-45-0/1-0	Chloroethane				SW846 8260C	ug/L	^c
180-48125-3	HD-MW-81D-0/1-0	Chloroethane				SW846 8260C	ug/L	^c
180-48125-2	HD-MW-81S-0/1-0	Chloroethane				SW846 8260C	ug/L	^c
180-48125-2	HD-MW-81S-0/1-0	Chloroethane				SW846 8260C	ug/L	^c
180-48125-5	HD-MW-20S-0/1-0	Chloroform	1.5	7.5	<b>1</b> 5	SW846 8260C	ug/L	J
180-48125-3	HD-MW-81D-0/1-0	Chloroform	0.73	3.65	7.3	SW846 8260C	ug/L	J
180-48125-3	HD-MW-81D-0/1-0	cis-1,2-Dichloroethene	150	750	1500	SW846 8260C	ug/L	Е
180-48125-2	HD-MW-81S-0/1-0	cis-1,2-Dichloroethene	470	2350	4700	SW846 8260C	ug/L	E
180-48125-5	HD-MW-20S-0/1-0	cis-1,2-Dichloroethene	1.2	6	12	SW846 8260C	ug/L	J
180-48125-5	HD-MW-20S-0/1-0	Tetrachloroethene	2.9	14.5	29	SW846 8260C	ug/L	J
180-48125-2	HD-MW-81S-0/1-0	Tetrachloroethene	16	80	160	SW846 8260C	ug/L	J
180-48125-3	HD-MW-81D-0/1-0	trans-1,2- Dichloroethene	0.82	4.1	8.2	SW846 8260C	ug/L	j
180-48125-2	HD-MW-81S-0/1-0	trans-1,2- Dichloroethene	4.6	23	46	SW846 8260C	ug/L	J
180-48125-5	HD-MW-20S-0/1-0	Trichloroethene	98	490	980	SW846 8260C	ug/L	E
180-48125-3	HD-MW-81D-0/1-0	Trichloroethene	79	395	790	SW846 8260C	ug/L	Е
180-48125-2	HD-MW-81S-0/1-0	Trichloroethene	710	3550	7100	SW846 8260C	ug/L	E
180-48125-1	HD-MW-18D-0/1-0	Vinyl chloride	0.6	3	6	SW846 8260C	ug/L	J

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