PQAO Level "Criteria Met" Flags

For Collocation and PEP, AQS Recommended flags are generated at the PQAO level and then "transferred" back to each site
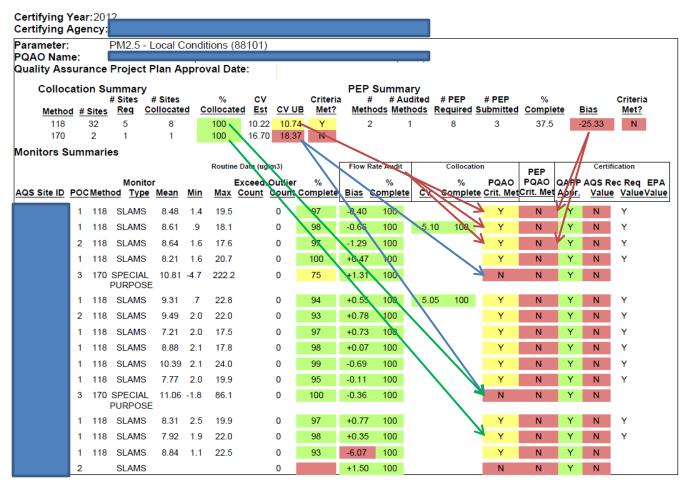
Collocation
based on CV, and completeness and is also associated with method designation

Bias
based on bias estimate, **not** completeness

Certification Report for Particulate Matter

Certifying Year: 2012
Certifying Agency:
Parameter: PM2.5 - Local Conditions (88101)
PQAO Name:
Quality Assurance Project Plan Approval Date:

Collocation Summary

Method	# Sites	# Sites Req	# Sites Collocated	% Collocated	CV Est	CV UB	Criteria Met?
118	32	5	8	100	10.22	10.74	Y
170	2	1	1	100	16.70	18.37	N

PEP Summary

# Methods	# Audited Methods	# PEP Required	# PEP Submitted	% Complete	Bias	Criteria Met?
2	1	8	3	37.5	-25.33	N

Monitors Summaries

AQS Site ID	POC	Method	Monitor Type	Mean	Min	Max	Exceed Count	Outlier Count	% Complete	Bias	% Complete	CV	% Complete	PQAO Crit. Met	PEP PQAO Crit. Met	QA PP Appr.	AQS Rec Value	Req Value	EPA Value
	1	118	SLAMS	8.48	1.4	19.5	0		97	-0.40	100			Y	N	Y	N		Y
	1	118	SLAMS	8.61	.9	18.1	0		98	-0.66	100	5.10	100	Y	N	Y	N		Y
	2	118	SLAMS	8.64	1.6	17.6	0		97	-1.29	100			Y	N	Y	N		Y
	1	118	SLAMS	8.21	1.6	20.7	0		100	+0.47	100			Y	N	Y	N		Y
	3	170	SPECIAL PURPOSE	10.81	-4.7	222.2	0		75	+1.31	100			N	N	Y	N		
	1	118	SLAMS	9.31	.7	22.8	0		94	+0.55	100	5.05	100	Y	N	Y	N		Y
	2	118	SLAMS	9.49	2.0	22.0	0		93	+0.78	100			Y	N	Y	N		Y
	1	118	SLAMS	7.21	2.0	17.5	0		97	+0.73	100			Y	N	Y	N		Y
	1	118	SLAMS	8.88	2.1	17.8	0		98	+0.07	100			Y	N	Y	N		Y
	1	118	SLAMS	10.39	2.1	24.0	0		99	-0.69	100			Y	N	Y	N		Y
	1	118	SLAMS	7.77	2.0	19.9	0		95	-0.11	100			Y	N	Y	N		Y
	3	170	SPECIAL PURPOSE	11.06	-1.8	86.1	0		100	-0.36	100			N	N	Y	N		
	1	118	SLAMS	8.31	2.5	19.9	0		97	+0.77	100			Y	N	Y	N		Y
	1	118	SLAMS	7.92	1.9	22.0	0		98	+0.35	100			Y	N	Y	N		Y
	1	118	SLAMS	8.84	1.1	22.5	0		93	-6.07	100			Y	N	Y	N		
	2		SLAMS				0			+1.50	100			N	N	Y	N		

QAPP Approval and NPAP Criteria

QAPP Approval - If a QAPP approval date is in AQS it will appear of PQAO Pollutant Page
- If no approval date or date > 10 years old, will be missing a date and all sites Red "N"
- If date between 5-10 years all sites yellow "Y"
- If date $\leq$ 5 years all sites green "Y"

NPAP Criteria- NPAP based on 15% of sites in PQAO not on pollutants so there is a possibility that a pollutant will not have a NPAP audit even though NPAP audits occurred within the PQAO.
- If no NPAP audit for a pollutant on valid audits no audits will show and PQAO criteria will be "Y"(see example #1)
- If an Audit was performed you will see the bias estimate at site level and an aggregate bias estimate at summary level AND the PQAO criteria will be based on the bias estimate (in example #2, bias was within acceptance criteria

Example #1

QAPP Approval Date 03/30/2010

NPAP Audit Summary:

	Number of Valid Audits	NPAP Bias	Criteria Met
			Y

AQS Site ID	POC	Monitor Type	Routine Data (ppm) Mean	Min	Max	Exceed. Count	Outlier Count	Percent Complete	One Point Quality Check Precision	Bias	Complete	Annual PE Bias	Complete	NPAP Bias	PQAO Level Criteria	QAPP Appr.	Certification Aqs Rec Flag	Submit. Req Flag	Epa Cert
	1	SPECIAL PURPOSE	3.8	0.0	21.8	0		77	3.35	+3.17	100	0			Y	Y	N		
	1	INVALID	2.2	- 0.6	18.4	0		97	1.94	+2.46	100	7.72	100		Y	Y	N		
	1	SLAMS	0.5	- 0.2	5.0	0		96	2.27	+/-1.95	100	4.42	100		Y	Y	Y		
	1	SLAMS	1.0	- 0.2	79.4	0		97	1.93	-2.48	100	2.24	100		Y	Y	Y		

Example #2

QAPP Approval Date 03/10/2011

NPAP Audit Summary:

	Number of Valid Audits	NPAP Bias	Criteria Met
	1	-.99010	Y

AQS Site ID	POC	Monitor Type	Routine Data (ppm) Mean	Min	Max	Exceed. Count	Outlier Count	Percent Complete	One Point Quality Check Precision	Bias	Complete	Annual PE Bias	Complete	NPAP Bias	PQAO Level Criteria	QAPP Appr.	Certification Aqs Rec Flag	Submit. Req Flag	Epa Cert
	1	SLAMS	0.048	0.024	0.109	0	0	100	1.53	+/-2.35	100	- 3.54	100		Y	Y	Y		
	1	SLAMS	0.052	0.025	0.084	0	0	100	1.40	+/-1.06	100	- 1.00	100		Y	Y	Y		
	1	SLAMS	0.051	0.022	0.104	0	0	100	3.89	+/-3.16	100	0.42	100		Y	Y	Y		
	1	TRIBAL MONITORS	0.050	0.025	0.115	0	0	100	3.93	-4.48	100	- 0.80	100		Y	Y	Y		
	1	SLAMS	0.049	0.012	0.114	0	0	100	3.68	+/-3.78	100	- 1.13	100		Y	Y	Y		
	1	SLAMS	0.048	0.015	0.098	0	0	100	1.58	+/-2.25	100	- 0.48	100	- 0.99	Y	Y	Y		
	1	SLAMS	0.048	0.016	0.107	0	0	100	3.74	-8.19	100	0.36	100		Y	Y	Y		