In Field Instrument Review 2020.02.21 – 2020.04.11 Prepared by Colleen O'Bryant

100255 (Clear AFB) – 1/3 RFI – No action taken

100343 (Sitka PD) – 2/5 Tank Interference on VOC – Occurred during instrument being placed in service following initial tank change. Successful VOC performed twice following status message. – No action taken

100357 (Juneau PD) – 1/3 Diagnostic Failed on VOC – Failed for Pump On. Occurred during instrument being placed in service. Successful VOC performed following. – No action taken.

100360 (Sand Point PD) -3/5 Gas Flow Errors on VOC - Tank change performed following 3 status messages - no further status messages - No action taken

100361 (JBER) – 4/31 RFI, 1/31 Pump Error, 1/31 Tank Interference, 3/31 Blank Error, 1/31 Standard out of Range, 1/31 Ambient Fail – **Remove from service, loaner instrument.**

100364 (Kodiak PD) – 1/22 Blank Error – No action taken

100365 (Unalaska PD) – 4/4 Gas Flow Errors on VOCs – Instrument removed from service on 3/4/2020.

100369 (Bethel PD) – 4/10 Filter Wheel Error on Subject tests, 1/6 Ambient Fail on VOC, 1/6 Diagnostic Failed on VOC (Filter Wheel Error) – 3/30/2020 troubleshooting documented on a change in status form, instrument successfully performed ~ 6 tests following troubleshooting. Instrument removed from service on 4/24/2020.

100371 (AST/Ketchikan) – 1/5 RFI – No action taken

100378 (AST/Fairbanks) – 1/37 RFI – No action taken

100379 (Wasilla PD) – 1/23 RFI, 1/23 Interference – No action taken

100380 (Anchorage PD) – 1/5 Interference – No action taken

100381 (AST/Soldotna) -4/26 RFI – No action taken

100396 (Glacier Bay NP) – 1/3 Blank Error on VOC – Followed by successful VOC – No action taken.

100400 (Craig PD) – 1/2 Tank Interference on VOC – Followed by a successful VOC – No action taken.

100402 (Soldotna PD) – 1/9 RFI – No action taken

100406 (Juneau PD) – 1/15 Blank Error, 1/15 Ambient Fail – Both status messages occurred during testing of the same subject followed by a completed test. Instrument being monitored for pump errors, none occurred. – No action taken.

100411 (North Pole PD) – 2/3 Diagnostic Failed on VOC (Filter Wheel Error) – Instrument never placed in service. Attempt documented on Change In Instrument Status Form 3/9/2020. No action needed.

100412 (Unalaska DPS) – 5/20 Tank Interference on VOC, 1/20 Blank Error on VOC, 1/20 Ambient Fail on VOC, 1/20 Internal Standard Error on VOC, 6 Diagnostic Fails on VOC (Internal Standard Failure X4, Pump ON/OFF Fail X2) – Change in Instrument Status Form 3/4/2020 documents failed VOCs and troubleshooting. Issues appeared to be environmental. **Monitor Instrument.**

100413 (Kenai PD) – 2/17 RFI – No action taken

100415 (Fort Wainwright) – 1/8 Pump Error, 3/8 Ambient Fail – Instrument removed from service 4/23/2020.

100418 (**Kenai PD**) – 2/2 Diagnostic Fails on VOCs (Internal Standard Errors) – Instrument removed from service on 2/18/2020.

100668 (Palmer PD) -6/37 RFI - No action taken

100678 (AST/MSW) - 3/19 RFI - No action taken

100680 (Dillingham PD) – 1/6 Standard Out of Range – Followed by completed test, subject with elevated alcohol level. No action taken.

100683 (AST/Glennallen) – 2/6 RFI – No action taken

100689 (Anchorage PD) – 1/152 RFI, 2/152 Blank Error, 2/152 Ambient Fail, 1/152 Static Analysis Error – Static Analysis Error followed by successful subject test - No action taken.

100690 (Bristol Bay Borough PD) – 1/2 Tank Interference on VOC – Followed by a successful VOC – No action taken.

100692 (AST/Girdwood) – 2/3 RFI – Both occurred on the same subject followed by a completed test. No action taken

100693 (Seward PD) – 2/5 RFI, 1/5 Blank Error – Blank error occurred on a subject with an elevated alcohol level followed by a completed subject test. RFIs were on the same subject followed by a completed test. Recommend replacement to investigate if blank errors are environmental or analytical.

100694 (Anchorage PD) – 1/139 RFI, 2/139 Blank Error – Instrument monitored for blank errors, both were followed by a completed test. No action taken

100695 (AST/Talkeetna) – 1/3 Diagnostic Failed on VOC – Followed by successful VOCs – No action taken

100698 (Nome PD) – 1/9 Interference, 1/9 Blank Error – No action taken

All instruments listed to monitor on 2020.02.21 were addressed above.

Data from the following agencies was NOT included in this review: King Cove PD and Hoonah PD.

		Sι	ıbject	Tes	t Data	a				Date 2/21/2020	Range 4/11/2020	Tot	Total Tests al Messages	689 58	8.4%						
Serial Number	Total Subject Tests		RFI	Pump	Error	Interfe	erence	Tank Inte	rference	Blank	Error	Standard C	ot of Range	Gas Flo	w Error	Ambier	nt Fail	Internal S	tandard Error	Diagnos	tic Failed
100255	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100361	31	4	13%	1	3%	0	0%	1	3%	3	10%	1	3%	0	0%	1	3%	0	0%	0	0%
100364	22	0	0%	0	0%	0	0%	0	0%	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%
100371	5	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100378	37	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100379	23	1	4%	0	0%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100380	5	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100381	26	4	15%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100402	9	1	11%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100406	15	0	0%	0	0%	0	0%	0	0%	1	7%	0	0%	0	0%	1	7%	0	0%	0	0%
100413	17	2	12%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100415	8	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	3	38%	0	0%	0	0%
100668	37	6	16%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100678	19	3	16%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100680	6	0	0%	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%
100683	6	2	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100689	152	1	1%	0	0%	0	0%	0	0%	2	1%	0	0%	0	0%	2	1%	0	0%	0	0%
100692	3	2	67%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100693	5	2	40%	0	0%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%
100694	139	1	1%	0	0%	0	0%	0	0%	2	1%	0	0%	0	0%	0	0%	0	0%	0	0%
100698	9	0	0%	0	0%	1	11%	0	0%	1	11%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	689	32	5%	2	0%	3	0%	1	0%	11	2%	2	0%	0	0%	7	1%	0	0%	0	0%

		2/21/2020		Tota	i lotai Tests al Messages		0.7%															
Serial Number	Total Subject Tests	User	Abort	Detector	Overflow	Barome	ter Error	Filter Wh	neel Error	Suck Ba	ick Error	Undefir	ned Error	Filter 1 W	√on't Zero	Samp Ch	namb Low	Breath T	ube High	Static Analysis Error		
100369	10	0	0%	0	0%	0	0%	4	40%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	
100689	152	Ō	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	1%	
Total	689	0	0%	0	0%	0	0%	4	1%	0	0%	0	0%	0	0%	0	0%	0	0%	1	0%	

			\/0	0 D-	1_					Date	Range		Total Tests	197							
			VÜ	C Da	ıta					2/21/2020	4/11/2020	Tota	al Messages	34	17.3%						
Serial Number	Total VOC Tests	F	RFI	Pump	Error	Interfe	erence	Tank Inte	rference	Blank	k Error	Standard C	ut of Range	Gas Flo	ow Error	Ambie	nt Fail	Internal S	tandard Error	Diagnos	stic Failed
100343	5	0	0%	0	0%	0	0%	2	40%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100357	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	33%
100360	5	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	60%	0	0%	0	0%	0	0%
100365	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	4	100%	0	0%	0	0%	0	0%
100369	6	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	1	17%
100396	3	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%
100400	2	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100411	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	67%
100412	20	0	0%	0	0%	0	0%	5	25%	1	5%	0	0%	0	0%	1	5%	1	5%	6	30%
100418	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	100%
100690	2	0	0%	0	0%	0	0%	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100695	3	0	0%	0	0%	0	0%	0	0%	0	0%	Ō	0%	0	0%	0	0%	0	0%	1	33%
Total	197	0	0%	0	0%	0	0%	9	5%	2	1%	0	0%	7	4%	2	1%	1	1%	13	7%

	T			Data				=11. 11.1		Date F 2/21/2020	4/11/2020		Total Tests I Messages	197 0	0.0%					
Serial Number 100255	Total VOC Tests 2	User 0	Abort 0%	Detector 0	Overflow 0%	Barome 0	ter Error 0%	Filter Wh	neel Error 0%	Suck Ba 0	ck Error 0%	Undefin 0	ed Error 0%	Filter 1 W	on't Zero 0%	Samp 0	Chamb Low 0%	Brea 0	ath Tube High 0%	Static Analysis Error 0 0%
100342 100343	0 5	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100344	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100345 100346	0 1	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100347 100348	<u> </u>	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100349 100350	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100351	0	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100352 100353	<u>3</u> 0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100354 100355	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100356	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100357 100358	3 0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100359 100360	<u> </u>	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100361 100362	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100363	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100364 100365	2 4	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100366 100367	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100368	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100369 100370	6 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0 0%
100371 100372	2 0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100373 100374	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100375	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100376 100377	0 1	0	0% 0%	0	0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0% 0%	0 0%
100378 100379	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100380 100381	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0% 0%	0	0%	0	0%	0 0%
100382	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100384 100385	1	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100386 100387	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100388 100389	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100390 100391	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100392	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100395 100396	2 3	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100397 100398	<u>2</u> 1	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100399 100400	0 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100402	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100403 100404	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100405 100406	0 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100410 100411	2 3	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100412 100413	20 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100414	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0% 0%	0	0% 0%	0	0%	0	0%	0	0%	0 0%
100415 100416	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100417 100418	0 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100420 100421	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100422	0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0 0%
100424	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100665 100666	1	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0 0%
100667 100668	0 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100669 100670	2 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100671 100672	0	0	0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0%	0	0% 0%	0	0%	0	0%	0 0%
100672 100673 100674	0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100675	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100676 100677	2 0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100678 100679	2 1	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100680 100681	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0%
100682	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100683 100684	0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0 0%
100685 100686	0 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100687 100688	0 0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100689 100690	3 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0% 0%	0 0% 0 0%
100691	0	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
100692 100693	2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0%	0 0%
100694 100695	3 3	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100696 100697	3 2	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0 0% 0 0%
100698 100699	2 0	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0% 0%	0	0%	0	0% 0%	0 0%
100700	2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0 0%
Total	197	U	0%	0	0%	0	0%	0	0%	U	0%	0	0%	0	0%	0	0%	U	0%	0 0%