In Field Instrument Review 2020.09.06 – 2020.10.24 Performed by Colleen O'Bryant

100355 (Homer PD) – 1/16 RFI on Subject Test, 1/6 Blank Error on VOC, 1/6 Diagnostic Failed on VOC due to RFI – Status messages occurred on VOCs while instrument was being relocated inside Homer PD (100355 2020.09.23 Change In Status). Followed by two completed VOCs. No action taken.

100366 (APD) – 3/134 Pump Error on Subject Tests, 1/134 Blank Error on Subject Test – No action taken

100367 (Seward PD) – 1/3 RFI on VOC, followed by two successful VOCs – No action taken

100371 (AST/Ketchikan) – 1/4 Blank Error on Subject Test, followed by completed test – No action taken

100375 (Denali National Park) – 1/4 Internal Standard Error on Subject Test. All four subject tests were conducted using "test/test" scenario, 1/3 Blank Error on VOC, followed by two completed VOCs – No action taken.

100376 (Wasilla PD) – 4/54 RFI on Subject Tests – No action taken

100378 (AST/Fairbanks) – 2/34 RFI on Subject Tests – No action taken

100381 (AST/Soldotna) – 1/38 RFI on Subject Test, 1/38 Interference on Subject Test – No action taken

100382 (UAF PD) – 1/4 Tank Interference on VOC, followed by completed VOC, (100382 2020.11.15 Change In Status) – Instrument removed from service for preventative maintenance.

100386 (AST/Unalakleet) – 1/1 Standard out of Range on VOC, followed by a completed VOC on 2020.11.03 both at low psi.—Monitor Instrument

100392 (**Kotzebue PD**) – 2/4 Tank Interference on Subject Tests, 3 out of 4 subject tests (including status messages) occurred on "test/test" scenarios, final test occurred without status messages – No action taken.

100402 (Soldotna PD) – 1/20 RFI on Subject Test – No action taken

100403 (Metlakatla) – 1/13 Pump Error on Subject Test, followed by completed test – No action taken.

100406 (Juneau PD) – 1/30 RFI on Subject Test – No action taken – Monitoring recommended during 2020.09.05 VOC cycle no longer needed.

100412 (Unalaska DPS) – 5/19 Tank Interference on Subject Tests, 3/19 Ambient Fail on Subject Tests, 6/19 Internal Standard Error on Subject Tests, 1/19 Filter 1 Won't Zero on Subject Tests, 1/5 Diagnostic Fail (Internal Standard Error) on VOC – Recommended instrument replacement, new instrument sent 2020.10.23.

100413 (Kenai PD) – 1/35 RFI on Subject Test, 1/35 Interference on Subject Test – No action taken.

<u>100414 (AST/Delta)</u> – 1/5 Gas Flow Error on Subject Test, 1/5 Blank Error on VOC, 1/5 Gas Flow Error on VOC, 1/5 Ambient Fail on VOC, 1/5 Diagnostic Fail on VOC – Recommended instrument replacement, new instrument sent 2020.11.10.

100416 (Fairbanks PD) – 1/27 RFI on Subject Test – No action taken

100421 (JBER) – 1/9 Interference on Subject Test – No action taken

100675 (Bethel PD) – 1/6 RFI on Subject Test, 1/6 Blank Error on Subject Test – No action taken

100678 (AST/Mat-Su West) – 1/25 Pump Error on Subject Test, 2/25 Tank Interference on Subject Tests, 2/25 Blank Error on Subject Tests, 1/25 Standard out of Range on Subject Test – Tank interference were both followed by completed subject tests. All other status messages occurred on the same subject. Completed with high level subject sample. – No action taken.

100682 (Kodiak PD) -3/11 Interference on Subject Tests, all three tests were conducted on the same subject with elevated filter 2 results - No action taken.

100683 (AST/Glennallen) – 1/4 Blank Error on Subject Test, followed by a completed test – No action taken

100686 (Whittier DP) – 1/2 RFI on VOC – Contacted Supervisor to troubleshoot 2020.11.18

100689 (Anchorage PD) – 2/131 Pump Error on Subject Tests, 3/131 Interference on Subject Tests, 2/131 Tank Interference on Subject Tests, 1/131 Standard out of Range on Subject Test, 2/131 Internal Standard Error on Subject Tests, 1/4 Tank Interference on VOC – Monitor Instrument

100692 (AST/Girdwood) – 2/3 RFI on VOC – both failed VOCs were followed by completed VOCs (2020.10.09, 2020.11.03), possibly environmental. Monitor instrument and agency supervisor contacted 2020.11.29.

100693 (Juneau PD) – 1/6 Blank Error on Subject Test, followed by completed test – No action taken

100698 (Nome PD) – 1/7 Blank Error on Subject Test, followed by completed test – No action taken

100700 (Wrangell PD) – 1/4 Tank Interference on subject test, followed by a completed test – No action taken

Instruments previously being monitored during 2020.09.05 VOC Cycle

100363 (AST/Anchor Point) - 1/1 VOC Diagnostic Failed (Filter Wheel Error) – Failed VOC occurred on 07/18/2020, Successful VOC completed on 07/28/2020. Recommend Monitoring Instrument during 2020.07.18 VOC Cycle IFIR – Limited tests on 2020.09.05 VOC Cycle IFIR – 3 successful VOCs and 11 subject tests completed since 2020.05.31 – Monitoring recommended during 2020.07.18 VOC Cycle IFIR no longer needed.

100679 (Skagway) – previously 2/4 Tank interference on subject tests – 9 tests conducted 2020.09.08 - 2020.11.10 without status messages - Monitoring recommended during 2020.09.05 VOC cycle no longer needed.

**Agencies not included in this review are Eielson AFB (100346), Sand Point PD (100360), Hoonah PD (100385), North Slope Borough PD (100397) and Ft. Wainwright MP (100423).

		Sι	ıbject	t Tes	t Dat	а					Range 10/24/2020	Tota	Total Tests al Messages	813 64	7.9%						
Serial Number	Total Subject Tests	Pump Error			Interference Tank Interferen			e Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed			
100355	16	1	6%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100366	134	0	0%	3	2%	0	0%	0	0%	1	1%	0	0%	0	0%	0	0%	0	0%	0	0%
100371	4	0	0%	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%
100375	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	25%	0	0%
100376	54	4	7%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100378	34	2	6%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100381	38	1	3%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100392	4	0	0%	0	0%	0	0%	2	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100402	20	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100403	13	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100406	30	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100412	19	0	0%	0	0%	0	0%	5	26%	0	0%	0	0%	0	0%	3	16%	6	32%	0	0%
100413	35	1	3%	0	0%	1	3%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100414	5	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%
100416	27	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100421	9	0	0%	0	0%	1	11%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100675	6	1	17%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%
100678	25	0	0%	1	4%	0	0%	2	8%	2	8%	1	4%	0	0%	0	0%	0	0%	0	0%
100682	11	0	0%	0	0%	3	27%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100683	4	0	0%	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%
100689	131	0	0%	2	2%	3	2%	2	2%	0	0%	1	1%	0	0%	0	0%	2	2%	0	0%
100693	6	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%
100698	7	0	0%	0	0%	0	0%	0	0%	1	14%	0	0%	0	0%	0	0%	0	0%	0	0%
100700	4	0	0%	0	0%	0	0%	1	25%	Ō	0%	Ö	0%	0	0%	0	0%	0	0%	0	0%
Total	813	13	2%	7	1%	9	1%	12	1%	8	1%	2	0%	1	0%	3	0%	9	1%	0	0%

			ubiect '	Test D																		
	9/6/2020	10/24/2020	Tota	al Messages	1	0.1%																
Serial Number	Total Subject Tests	User Abort		Detector	Overflow	Barometer Error		Filter Wheel Error		Suck Back Error		Undefined Error		Filter 1 Won't Zero		Samp Ch	namb Low	Breath T	ube High	Static Analysis Error		
100412	19	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	5%	0	0%	0	0%	0	0%	
Total	813	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	0%	0	0%	0	0%	0	0%	

			\/0	C D.	-4-					Date Range		Total Tests		116									
			VO	C Da	ala					9/6/2020	10/24/2020	Tot	al Messages	15	12.9%								
Serial Number	Total VOC Tests	RFI		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error			
100355	6	0	0%	0	0%	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	1	17%		
100367	3	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
100375	3	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%		
100382	4	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
100386	1	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%		
100412	5	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	20%		
100414	5	0	0%	0	0%	0	0%	0	0%	1	20%	0	0%	1	20%	1	20%	0	0%	1	20%		
100686	2	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%		
100689	4	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	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%		
Total	116	4	3%	0	0%	0	0%	2	2%	3	3%	1	1%	1	1%	1	1%	0	0%	3	3%		

Date Range 9/6/2020 | 10/24/2020 VOC Data Total Messages 0.0% n't Ze 0% sis Er 0% 0% 100255 100342 0% 100343 100344 0% 10034 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100346 0% 0% 0% 0% 0% 0% 0% 0% 0% 100347 100348 100348 10035 10035 0% 0% 0% 0% 100352 100353 0% 0% 0% 0% 0% 0% 0% 100354 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 10035 0% 0% 0% 0% 0% 0% 0% 10035 0% 0% 0% 0% 0% 0% 0% 0% 0% 100361 100362 100363 100364 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 10036 0% 0% 0% 0% 0% 0% 0% 10036 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100368 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100369 100370 100371 100372 100373 100374 100375 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100376 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 10037 0% 0% 0% 0% 0% 0% 0% 0% 100379 0% 0% 0% 0% 0% 0% 0% 0% 0% 100384 100385 100386 100387 0% 100388 0% 0% 0% 0% 0% 0% 10039 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100391 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 10039 10039 10039 100397 100398 100399 100400 0% 100402 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100404 0% 0% 0% 0% 0% 0% 0% 100405 0% 0% 0% 0% 0% 0% 0% 0% 0% 100412 100413 100414 100415 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100416 100417 0% 0% 0% 0% 0% 0% 0% 0% 100418 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100420 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 10042 10042 10042 100424 100665 100666 100667 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100668 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100670 0% 0% 0% 0% 0% 0% 0% 0% 10067 0% 0% 0% 0% 0% 0% 0% 0% 0% 100675 100676 100677 100678 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100679 0% 0% 0% 0% 10068 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100682 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100683 100684 100685 100686 100687 100688 100689 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100690 100691 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 100692 0% 0% 0% 0% 0% 0% 100693 0% 0% 0% 0% 0% 0% 0% 0% 0% 100697 100698 100699 100700 0% Total