

**In Field Instrument Review**  
**Date Range: 2023.05.31 – 2023.07.18**  
**Review Completed on 2023.08.02 by Carlie Glaister**

**Status Messages and Action Taken**

**100344 (Juneau Pd):** 1/22 RFI on Subject Tests – No action taken.

**100351 (AST/Soldotna):** 3/46 RFI on Subject Tests, 1/46 Subject Interference on Subject Tests followed by a completed test, 1/46 Ambient Fail on Subject Tests followed by a completed test, 1/46 Static Analysis Error on Subject Tests later followed by a completed tests labeled “TEST” – Recommend monitoring for Static Analysis Error.

**100355 (Homer PD):** 2/24 RFI on Subject Tests, 1/24 Subject Interference on Subject Tests followed by a completed test – No action taken.

**100358 (AST/Mat-Su West):** 3/29 RFI on Subject Tests – No action taken.

**100360 (Ft. Wainwright MP):** 1/7 Blank Error on Subject Tests, 2/7 Ambient Fail on Subject Tests. Additionally, DMHost shows a Filter 3 Won't Zero and a Filter 2 Won't Zero during Subject Tests. All 5 status messages occurred consecutively on 06/04/2023. There are completed tests that occurred on 06/12/2023 – Instrument removed from service on 07/11/2023 due to multiple different status messages (100360 2023.07.11 Change In Status).

**100362 (AST/Kodiak):** 1/2 RFI on Subject Tests – No action taken.

**100367 (Seward PD):** 1/33 RFI on Subject Tests, 2/33 Subject Interference on Subject Tests (both occurred on same individual), 1/33 Blank Error on Subject Tests followed by a completed test. Filter 2 Won't Zero Error on 06/27/2023, followed by a completed test – No action taken.

**100370 (UAF PD):** 4/14 RFI on Subject Tests, 3/14 Blank Error on Subject Tests all followed by completed tests – The Breath Test Supervisor was notified of repeated tests and RFI status messages (100370 2023.08.02 Change In Status).

**100374 (AST/Delta):** 1/2 RFI on Subject Tests – No action taken.

**100380 (Ketchikan PD):** 1/12 Pump Error on Subject Tests – No action taken.

**100382 (Petersburg PD):** 1/8 Blank Error on Subject Tests followed by a completed test – No action taken.

**100400 (Craig PD):** 1/5 Tank Interference on Subject Tests, 1/1 Tank Interference on VOC Tests. On 07/20/2023 a VOC Test had another Tank Interference, followed by a completed VOC – Recommend monitoring for Tank Interference.

**100403 (Wasilla PD):** 4/45 Subject Interference on Subject Tests (all occurred on the same individual) – No actions taken.

**100413 (Fairbanks PD):** 4/27 RFI on Subject Tests – No action taken.

**100421 (JBER):** 6/39 RFI on Subject Tests, 2/39 Pump Error on Subject Tests, 3/39 Subject Interference on Subject Tests (all occurred on the same individual), 2/39 Blank Error on Subject Tests, 1/39 Standard Out of Range on Subject Tests, 6/39 Ambient Fail on Subject Tests.

On 07/10/2023, 7 status messages occurred on the same individual, followed by a completed test (2 Pump Error, 4 Ambient Fail, and 1 Standard Out of Range). On the same day, shortly after 3 status messages occurred on the same individual, followed by a completed test (2 Ambient Fail, 1 Blank Error). The Breath Test Supervisor was contacted regarding repeated testing and notified that this instrument will be removed from service due to Standard Out of Range status messages (100421 2023.08.02 Change In Status) – Remove instrument from service.

**100667 (Anchorage PD):** 3/136 RFI on Subject Tests, 1/136 Blank Error on Subject Tests followed by a completed test. It was noted that 2 VOCs (06/11/2023 and 07/18/2023) had the incorrect lot number on the external standard (100667 2023.07.22 Change In Status)– No action taken.

**100669 (Palmer PD):** 5/33 RFI on Subject Tests, 1/33 Subject Interference on Subject Tests, 1/3 Blank Error on VOC Tests, followed by a completed test – No action taken.

**100670 (Unalaska PD):** 1/7 Pump Error on Subject Tests followed by a completed test – No action taken.

**100681 (Soldotna PD):** 1/5 RFI on Subject Tests – No action taken.

**100687 (Anchorage PD):** 1/4 Standard Out of Range on Subject Tests – No action taken.

**100695 (Whittier PD):** 2/2 Diagnostic Failed due to Internal Standard Error on VOC Tests – Instrument removed from service on 06/29/2023 due to multiple different status messages (100695 2023.06.29 Change In Status).

**100697 (Anchorage PD):** 3/100 RFI on Subject Tests, 1/100 Pump Error on Subject Tests followed by a completed test, 3/100 Blank Error on Subject Tests, 1/100 Ambient Fail on Subject Tests – No action taken.

**100698 (AST/Glennallen):** 1/18 RFI on Subject Tests, 4/18 Ambient Fail on Subject Tests (all 4 occurred on TEST subject) – No action taken.

**100699 (Valdez PD):** 1/10 RFI on Subject Tests, 1/10 Subject Interference on Subject Tests, 2/10 Blank Error on Subject Tests follows by completed tests – No action taken.

**100700 (Palmer PD):** 2/27 RFI on Subject Tests – Instrument removed from service on 06/19/2023 due to screen issues (100700 2023.06.19 Change In Status).

#### **Follow Up from Previous In Field Instrument Review**

**100351 (AST/Soldotna):** Instrument is being monitored for tank interference. No tank interference occurred during this cycle – Discontinue monitoring.

**100360 (Ft. Wainwright MP):** This instrument was removed from service on 07/11/2023 due to multiple different status messages (100360 2023.07.11 Change In Status).

**100367 (Seward PD):** Instrument is being monitored for Internal Standard Error. This status message did not occur during this cycle – Discontinue monitoring.

**100398 (AST/Ketchikan):** This instrument was removed from service on 07/13/2023 due to Filter Wheel Error (100398 2023.07.13 Change In Status).

**100406 (Denali NP):** Instrument is being monitored due to the breath tube temperature being too low (Diagnostic Failed). No breath tests occurred during this cycle – Continue monitoring.

**100421 (JBER):** This instrument will be removed from service due to Standard Out of Range status messages (100421 2023.08.02 Change In Status).

**100695 (Whittier PD):** Instrument removed from service on 06/29/2023 due to multiple different status messages (100695 2023.06.29 Change In Status).

**100699 (Valdez PD):** Instrument being monitored for Standard Out of Range. This status message did not occur during this cycle – Discontinue monitoring.

**Agencies not included in this summary:**

**100420 (Ft. Greely MP):** Instrument doesn't upload, files needed from this cycle and the last 2 cycles.

**100424 (Eielson AFB):** Instrument doesn't upload, files needed from this cycle and last cycle.

**100678 (Sand Point PD):** Instrument doesn't upload, files needed.

**100694 (Ft. Wainwright MP):** Instrument doesn't upload, files needed.

Subject Test Data

| Serial Number | Total Subject Tests | Date Range |           |            |           |              |           |                   |           | Total Tests |           |                       |           |                |           |              |           | Total Codes |                         |           |                   |           |    |    |
|---------------|---------------------|------------|-----------|------------|-----------|--------------|-----------|-------------------|-----------|-------------|-----------|-----------------------|-----------|----------------|-----------|--------------|-----------|-------------|-------------------------|-----------|-------------------|-----------|----|----|
|               |                     | RFI        |           | Pump Error |           | Interference |           | Tank Interference |           | Blank Error |           | Standard Out of Range |           | Gas Flow Error |           | Ambient Fail |           |             | Internal Standard Error |           | Diagnostic Failed |           |    |    |
|               |                     | 5/31/2023  | 7/18/2023 | 5/31/2023  | 7/18/2023 | 5/31/2023    | 7/18/2023 | 5/31/2023         | 7/18/2023 | 5/31/2023   | 7/18/2023 | 5/31/2023             | 7/18/2023 | 5/31/2023      | 7/18/2023 | 5/31/2023    | 7/18/2023 |             | 5/31/2023               | 7/18/2023 | 5/31/2023         | 7/18/2023 |    |    |
| 100344        | 22                  | 1          | 5%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100351        | 46                  | 3          | 7%        | 0          | 0%        | 1            | 2%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 1            | 2%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 5  |
| 100355        | 24                  | 2          | 8%        | 0          | 0%        | 1            | 4%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 3  |
| 100358        | 29                  | 3          | 10%       | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 3  |
| 100360        | 7                   | 0          | 0%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 1           | 14%       | 0                     | 0%        | 0              | 0%        | 2            | 29%       | 0           | 0%                      | 0         | 0%                | 0         | 0% | 3  |
| 100362        | 2                   | 1          | 50%       | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100367        | 33                  | 1          | 3%        | 0          | 0%        | 2            | 6%        | 0                 | 0%        | 1           | 3%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 4  |
| 100370        | 14                  | 4          | 29%       | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 3           | 21%       | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 7  |
| 100374        | 2                   | 1          | 50%       | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100380        | 12                  | 0          | 0%        | 1          | 8%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100382        | 8                   | 0          | 0%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 1           | 13%       | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100400        | 5                   | 0          | 0%        | 0          | 0%        | 0            | 0%        | 1                 | 20%       | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100403        | 45                  | 0          | 0%        | 0          | 0%        | 4            | 9%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 4  |
| 100413        | 27                  | 4          | 15%       | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 4  |
| 100421        | 39                  | 6          | 15%       | 2          | 5%        | 3            | 8%        | 0                 | 0%        | 2           | 5%        | 1                     | 3%        | 0              | 0%        | 6            | 15%       | 0           | 0%                      | 0         | 0%                | 0         | 0% | 20 |
| 100667        | 136                 | 3          | 2%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 1           | 1%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 4  |
| 100669        | 33                  | 5          | 15%       | 0          | 0%        | 1            | 3%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 6  |
| 100670        | 7                   | 0          | 0%        | 1          | 14%       | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100681        | 5                   | 1          | 20%       | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100687        | 4                   | 0          | 0%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 1                     | 25%       | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 1  |
| 100697        | 100                 | 3          | 3%        | 1          | 1%        | 0            | 0%        | 0                 | 0%        | 3           | 3%        | 0                     | 0%        | 0              | 0%        | 1            | 1%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 8  |
| 100698        | 18                  | 1          | 6%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 4            | 22%       | 0           | 0%                      | 0         | 0%                | 0         | 0% | 5  |
| 100699        | 10                  | 1          | 10%       | 0          | 0%        | 1            | 10%       | 0                 | 0%        | 2           | 20%       | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 4  |
| 100700        | 27                  | 2          | 7%        | 0          | 0%        | 0            | 0%        | 0                 | 0%        | 0           | 0%        | 0                     | 0%        | 0              | 0%        | 0            | 0%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 2  |
| Total         | 786                 | 42         | 5%        | 5          | 1%        | 13           | 2%        | 1                 | 0%        | 14          | 2%        | 2                     | 0%        | 0              | 0%        | 14           | 2%        | 0           | 0%                      | 0         | 0%                | 0         | 0% | 91 |

\*\*The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed.\*\*

**Subject Test Data**

|               |                     | Date Range |                   | Total Tests     |                    | Total Messages  |                 | 786                 |                | 0.1%             |                       |             |    |   |  |  |  |  |  |  |  |  |  |  |
|---------------|---------------------|------------|-------------------|-----------------|--------------------|-----------------|-----------------|---------------------|----------------|------------------|-----------------------|-------------|----|---|--|--|--|--|--|--|--|--|--|--|
|               |                     |            |                   |                 |                    |                 |                 | 5/31/2023           |                | 7/18/2023        |                       | 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 Chamb Low | Breath Tube High | Static Analysis Error | Total Codes |    |   |  |  |  |  |  |  |  |  |  |  |
| 100351        | 46                  | 0          | 0%                | 0               | 0%                 | 0               | 0%              | 0                   | 0%             | 0                | 0%                    | 1           | 2% | 1 |  |  |  |  |  |  |  |  |  |  |
| Total         | 786                 | 0          | 0%                | 0               | 0%                 | 0               | 0%              | 0                   | 0%             | 0                | 0%                    | 1           | 0% | 1 |  |  |  |  |  |  |  |  |  |  |

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VOC Data

| Serial Number | Total VOC Tests | Date Range |           |            |    |              |    | Total Tests       |      | Total Messages |     |                       |    |                |    |              |    |                         |    | Total Codes |                   |    |      |    |    |    |
|---------------|-----------------|------------|-----------|------------|----|--------------|----|-------------------|------|----------------|-----|-----------------------|----|----------------|----|--------------|----|-------------------------|----|-------------|-------------------|----|------|----|----|----|
|               |                 | RHI        |           | Pump Error |    | Interference |    | Tank Interference |      | Blank Error    |     | Standard Out of Range |    | Gas Flow Error |    | Ambient Fail |    | Internal Standard Error |    |             | Diagnostic Failed |    |      |    |    |    |
|               |                 | 6/17/2023  | 7/18/2023 | 0          | 0% | 0            | 0% | 0                 | 0%   | 0              | 0%  | 0                     | 0% | 0              | 0% | 0            | 0% | 0                       | 0% |             | 0                 | 0% | 0    | 0% | 0  | 0% |
| 100400        | 1               | 0          | 0%        | 0          | 0% | 0            | 0% | 1                 | 100% | 0              | 0%  | 0                     | 0% | 0              | 0% | 0            | 0% | 0                       | 0% | 0           | 0%                | 0  | 0%   | 0  | 0% | 1  |
| 100669        | 3               | 0          | 0%        | 0          | 0% | 0            | 0% | 0                 | 0%   | 1              | 33% | 0                     | 0% | 0              | 0% | 0            | 0% | 0                       | 0% | 0           | 0%                | 0  | 0%   | 0  | 0% | 1  |
| 100695        | 2               | 0          | 0%        | 0          | 0% | 0            | 0% | 0                 | 0%   | 0              | 0%  | 0                     | 0% | 0              | 0% | 0            | 0% | 0                       | 0% | 0           | 0%                | 2  | 100% | 2  | 2  |    |
| Total         | 100             | 0          | 0%        | 0          | 0% | 0            | 0% | 1                 | 1%   | 1              | 1%  | 0                     | 0% | 0              | 0% | 0            | 0% | 0                       | 0% | 0           | 0%                | 2  | 2%   | 4  | 4  |    |

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