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Date: 9/2/25 - Tuesday

Activity: Weekly

Team: E2: [REDACTED]

Location: RMBFSF

PPE: Level D

Ref: E2 HSP/wP Navy ppm EM 385-1-1

Weather: Sunny

845: Arrive @ AHS. Conduct safety briefing and calibrate ppbRae.

900: Arrive @ ~~Tank 2 Sump~~ 2 Cart and equipment.

915: Arrive @ Sump 2

940: Arrive @ Sump 3 & 4

1007: Arrive @ Sump 5 & 6

1038: Arrive @ Sump 7 & 8

1106: Arrive @ Sump 9 & 10

1132: calibration check

1140: Arrive @ 11 & 12

1210: Arrive @ 13 & 14

1230: Arrive @ Sump 15 & 16

1255: Arrive @ Sump 17 & 18

1317: Arrive @ Sump 19

1325: Call Chuck ppbRae @ Tank 20.

1328: Return cart and equipment to area

1340: E2 off site.

* ALL MATS AND SANDBAGS PLACED OVER SUMPS.



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Project Title: Long-Term Monitoring, Red Hill Bulk Fuel Storage

Facility (RHBFSF)

E2 Job No.: 210045

DAILY INSTRUMENT CALIBRATION LOG

Date: 9/2/25

E2 Team: [REDACTED]

Instrument Type, Model/Serial No.: PID, ppbRAE 3000 (PGM-7340) / 594-906662

INITIAL CALIBRATION: * All calibration is conducted with moisture filter attached.

Zero Calibration			Notes
Zeroing Tube (Make/P /N /Batch No.) <u>OR</u> Zeroing Gas (Manufacturer/Lot No./Exp.)	Calibration Reading (ppbv)	Pass? (Y/N)	
Gasco / 304-402279836-1 / 11/17/25	0	Y	
Span Calibration			
Calibration Gas – 10 ppm, Isobutylene (Manufacturer/Lot No./Exp.)	Calibration Reading (ppbv)	Pass? (Y/N)	
Geotech / 24-1736 / 6/4/2026	10.02 ppm	Y	
Calibration Pass Criteria*: (1) Zero calibration = ± 100 ppb, (2) Span Calibration= ± 3% (300 ppb)			

Temperature ($^{\circ}$ F) (measured from PID): 85 $^{\circ}$ F

Background Reading (ppbv) (moisture filter attached): 0

CALIBRATION CHECK: * Calibration checks are conducted with moisture filter on. At minimum, one check at midpoint and one check at the end of monitoring. Additional checks conducted, as needed, to verify initial consecutive zero readings or suspected drift in PID readings.

Time	Calibration Gas – Concentration as indicated on initial span calibration (specify if other)			Notes (e.g., Location)
	Manufacturer/Lot No./Exp.	Calibration Reading (ppbv)	Pass? (Y/N)	
1132	GEOTECH / 24-1736 / 6-4-2026	10.07 ppm	Y	After Tank 10
1324	" " "	10.03 ppm	Y	After Tank 20
Calibration Check Pass Criteria*: Span Calibration Gas = $\pm 10\%$ (1,000 ppb)				

Date: 9/2/25

*Note: If any parameter fails to meet the acceptable range, perform maintenance as needed and re-calibrate PID.

Soil Vapor Monitoring Log

Contract No.: N62742-17-D-1802 CTO N6274221F0148	Date: 9/2/25
E2 Job No.: 210045	
Project Title: Long-Term Monitoring, Red Hill Bulk Fuel Storage Facility (RHBFSF)	Location: RHBFSF, JBPHH, Hawaii
Personnel: [REDACTED]	
Instrument Model: ppBRAE 3000 (PGM-7340)	Serial No.: 594-906662
Calibration: per SOP (see Instrument Calibration Log)	

SVMP No. (Material)	Purge Start Time	Sample Start Time	PID Reading ²			Reading Time	Background PID Reading	Notes
			1	2	3			
SV02 S _(C)	0919	0923	821	837	852	0925	1013	
SV02 M _(C)	0919	0923	448	413	397	0928		
SV02 D _(C)	0919	0923	620	558	527	0931		
SV03 S _(S)	0940	0941	836	704	663	0944	1565	Fan is on.
SV03 M _(S)	0940	0941	425	366	260	0945		
SV03 D _(S)	0940	0941	463	463	422	0946		
SV04 S _(S)	0952	0953	480	481	479	1004	824	Fan is on.
SV04 M _(S)	0952	0953	374	367	362	0958		
SV04 D _(S)	0952	0953	444	435	429	0959		
SV05 S _(S)	1013	1014	643	601	600	1018	857	
SV05 M _(S)	1013	1014	1356	1392	1392	1019		
SV05 D _(S)	1013	1014	626	611	610	1024		
SV06 S _(C)	1028	1030	3055	3587	4123	1033	764	Fan is on.
SV06 M _(C)	1028	1030	536	515	507	1032		
SV07 S _(S)	1045	1046	408	391	369	1051	1445	
SV07 M _(S)	1045	1046	829	750	696	1049		
SV07 D _(S)	1045	1046	638	609	584	1050		
SV08 S _(S)	1056	1057	756	719	681	1100	961	
SV08 M _(S)	1056	1057	611	596	578	1100		
SV08 D _(S)	1056	1057	595	577	562	1101		
SV09 S _(S)	1113	1114	322	304	306	1118	710	
SV09 M _(S)	1113	1114	367	364	363	1119		
SV09 D _(S)	1113	1114	312	308	304	1120		
SV10 S _(C)	1124	1126	294	287	285	1127	656	
SV10 M/D _(C)	1124	1126	214	210	209	1128		

1. S - Shallow/Front (Yellow); M - Middle (Blue); M/D - Middle to Deep (Blue & White); D - Deep/Back (White); MD - Marine diesel (F-76); C - Copper tubing (O.D. ~1/4-in.); S - Stainless Steel Tubing (O.D. ~3/16 in.)
2. Readings are measured in part per billion by volume (ppbv) unless otherwise noted. Threshold for summa cannister sampling for both jet fuels (JP-5, F-24) and marine diesel (F-76) is 50,000 ppbv.

Comments:

All bags were replaced.

Soil Vapor Monitoring Log

Date: 9/2/25

SVMP No.	Purge Start Time	Sample Start Time	PID Reading ²			Reading Time	Background PID Reading	Notes
			1	2	3			
SV11 S _(C)	1144	1146	319	324	340	1147	516	
SV11 M/D _(C)	1144	1146	335	346	268	1148		
SV12 S _(C)	1152	1154	345	371	372	1156		
SV12 M _(C)	1152	1154	316	310	306	1157	843	
SV12 D _(C)	1152	1154	296	289	288	1157		
SV13 S _(S)	1213	1214	384	395	404	1218		
SV13 M _(S)	1213	1214	486	492	496	1219	680	
SV13 D _(S)	1213	1214	413	414	413	1220		
SV14 S _(C)	1218	1220	425	436	443	1224		
SV14 M _(C)	1219	1221	513	523	524	1227	824	
SV14 D _(C)	1221	1223	434	446	449	1228		
MD SV15 S _(S)	1233	1234	884	859	815	1239		
MD SV15 M _(S)							1019	
MD SV15 D _(S)	1233	1234	701	689	661	1241		
MD SV16 S _(C)								
MD SV16 M _(C)	1234	1246	515	492	478	1249	912	
MD SV16 D _(C)	1244	1246	657	675	688	1248		
SV17 S _(S)	1259	1300	742	727	724	1304		
SV17 M _(S)	1259	1300	701	672	660	1305	1019	
SV17 D _(S)	1259	1300	655	644	637	1306		
SV18 S _(S)	1307	1309	766	797	820	1311		
SV18 D _(S)	1309	1311	818	806	811	1313	1229	
SV20 S _(S)	1318	1319	836	825	820	1323		
SV20 M _(S)	1318	1319	823	811	808	1324		
SV20 D _(S)	1318	1319	921	911	909		1348	

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Comments:

All bags replaced.

09/02/2025 Red Hill SVMP Photographs



Photo 1. SVMP-02



Photo 2. SVMP-03



Photo 3. SVMP-04



Photo 4. SVMP-05



Photo 5. SVMP-06

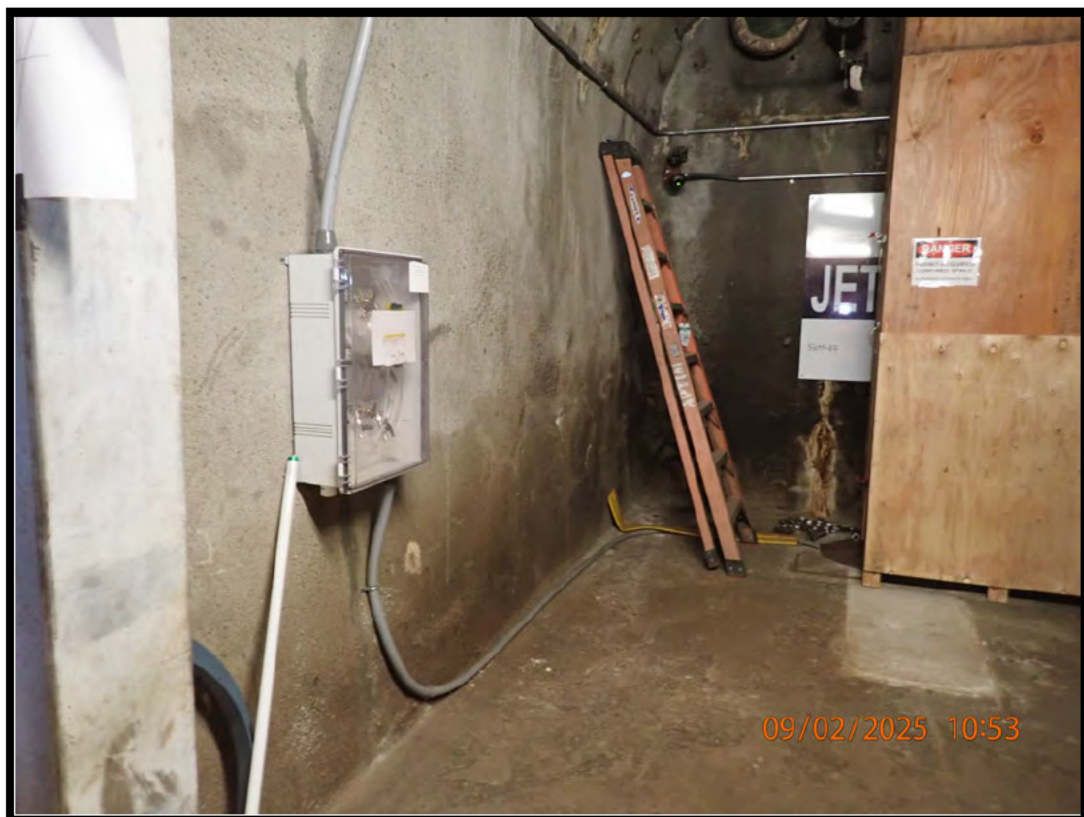


Photo 6. SVMP-07



Photo 7. SVMP-08

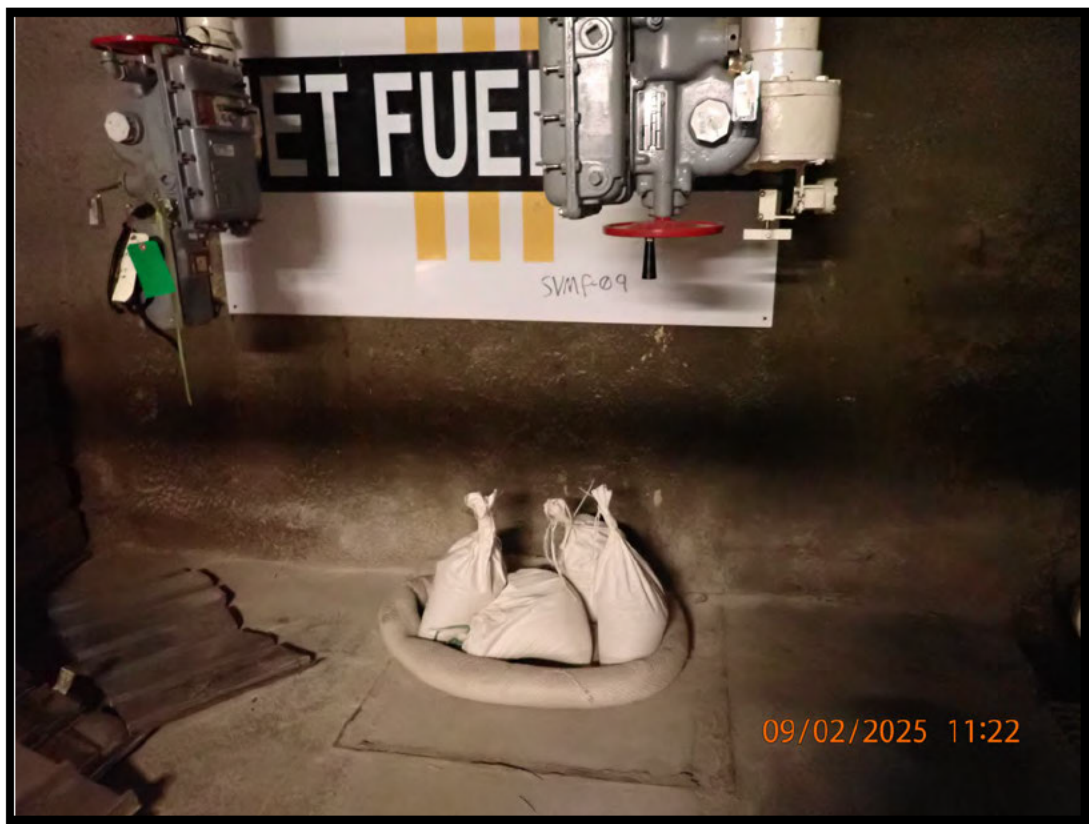


Photo 8. SVMP-09



Photo 9. SVMP-10



Photo 10. SVMP-11



Photo 11. SVMP-12



Photo 12. SVMP-13



Photo 13. SVMP-14



Photo 14. SVMP-15



Photo 15. SVMP-16



Photo 16. SVMP-17



Photo 17. SVMP-18



Photo 18. SVMP-20