

128/12/25

Activity: Weekly + Summer

Team: [REDACTED]

Location - RHBFST

PPE - Level D

Weather - Sunny

Ref E2 HSD/WP EM381-17

Time	Activity	SUMP
9:30	Safety Meeting + Cal Check	
9:45	Set Up New Lock Box	
10:45	Arrived at the SUMP 2	
10:59	Arrived @ SUMP	3+4
11:06	Arrived @ SUMP	4+5
11:18	Arrived @ SUMP	5+6
11:26	Arrived @ SUMP	7+8
11:38	Arrived @ SUMP	9+10
12:00	Cal check	
11:51	Arrived @ SUMP	11+12
12:06	Arrived @ SUMP	13+14
12:21	Arrived @ SUMP	15+16
12:49	Arrived @ SUMP	17+18
13:30	Arrived @ SUMP	20
13:45	Cal check	
* All mats + sand bags placed over SUMPS		
14:10	E2 off site	



DAILY INSTRUMENT CALIBRATION LOG

Date: 8/12/25

E2 Team: [REDACTED]

INITIAL CALIBRATION: * All calibrations are conducted with moisture filter attached.

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

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)	
<u>Casco</u> <u>10/31/26</u> <u>304-4025491184</u>	<u>0</u>	<u>Y</u>	
Span Calibration			
Calibration Gas – Isobutylene 10 ppm (Manufacturer/Lot No./Exp.)	Calibration Reading (ppbv)	Pass? (Y/N)	
<u>Geotech</u> <u>6/14/29</u> <u>24-1736</u>	<u>10,000</u>	<u>Y</u>	<u>@ adit 6</u>
Calibration Pass Criteria*: (1) Zero calibration = ± 100 ppb, (2) Span Calibration = $\pm 10\%$			

Temperature ($^{\circ}$ F) (measured from PID): 82

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

Cal check

Instrument Type, Model/Serial No.: PID (ppm), MiniRAE Lite/

Zero Calibration			Notes
Zeroing Tube (Make/P/N/Batch No.) <u>or</u> Zeroing Gas (Manufacturer/Lot No./Exp.)	Calibration Reading (ppmv)	Pass? (Y/N)	
Span Calibration			
Calibration Gas – Isobutylene 100 ppm (Manufacturer/Lot No./Exp.)	Calibration Reading (ppmv)	Pass? (Y/N)	
<u>Geotech</u> <u>6/14/29</u> <u>24-1736</u>	<u>9487</u>	<u>Y</u>	<u>@ SUMP-11</u> <u>@ 12:00 pm</u>
Calibration Pass Criteria*: (1) Zero calibration = ± 0.1 ppm, (2) Span Calibration = $\pm 10\%$			

Background Reading (ppmv) (moisture filter attached):

Cal check

<u>Geotech</u> <u>6/14/29</u> <u>24-1736</u>	<u>9701</u>	<u>Y</u>	<u>@ SUMP-20</u> <u>@ 1345</u>
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*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:	8/12/25
E2 Job No.:	210045		
Project Title:	Long-Term Monitoring, Red Hill Bulk Fuel Storage Facility (RHBFSF)	Location:	RHBFSF, JBPHH, Hawaii
Personnel:	[REDACTED]		
Instrument Model:	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)	1050	1052	0	0	0	1055	168	Fan
SV02 M _(C)	1050	1052	0	0	0	1055		
SV02 D _(C)	1050	1052	211	220	224	1056		
SV03 S _(S)	1100	1101	0	0	0	1105	275	Fan
SV03 M _(S)	1100	1101	0	0	0	1105		
SV03 D _(S)	1100	1101	0	0	0	1106		
SV04 S _(S)	1107	1108	0	0	0	1111	67	fan
SV04 M _(S)	1107	1108	9	8	5	1111		
SV04 D _(S)	1107	1108	0	0	0	1112		
SV05 S _(S)	1119	1120	0	0	0	1123	154	fan
SV05 M _(S)	1119	1120	0	0	0	1124		
SV05 D _(S)	1119	1120	302	341	351	1124		
SV06 S _(C)	1113	1115	1458	2605	3510	1118	153	fan
SV06 M _(C)	1113	1115	963	633	486	1118		
SV07 S _(S)	1126	1127	258	208	176	1129	893	Solvent smell
SV07 M _(S)	1126	1127	84	59	46	1129		
SV07 D _(S)	1126	1127	127	118	107	1130		
SV08 S _(S)	1132	1133	345	277	253	1136	686	Solvent Smell
SV08 M _(S)	1132	1133	238	215	185	1136		
SV08 D _(S)	1132	1133	158	148	145	1137		
SV09 S _(S)	1139	1140	30	24	18	1143	185	
SV09 M _(S)	1139	1140	19	18	16	1143		
SV09 D _(S)	1139	1140	97	80	71	1144		
SV10 S _(C)	1145	1147	0	0	0	1150	139	
SV10 M/D _(C)	1145	1147	28	25	22	1151		

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 canister sampling for both jet fuels (JP-5, F-24) and marine diesel (F-76) is 50,000 ppbv.

Comments:

Soil Vapor Monitoring Log

Date:

8/18/25

SVMP No.	Purge Start Time	Sample Start Time	PID Reading ²			Reading Time	Background PID Reading	Notes
			1	2	3			
SV11 S _(C)	1152	1154	0	0	0	1158	115	cal check
SV11 M/D _(C)	1152	1154	0	0	0	1158		
SV12 S _(C)	1200	1202	0	0	0	1205	137	
SV12 M _(C)	1200	1202	0	0	0	1205		
SV12 D _(C)	1200	1202	0	0	0	1205		
SV13 S _(S)	1207	1208	0	0	0	1211		
SV13 M _(S)	1207	1208	22	27	26	1211	99	
SV13 D _(S)	1207	1208	39	48	57	1212		
SV14 S _(C)	1214	1216	70	61	52	1219	193	
SV14 M _(C)	1214	1216	27	28	28	1219		
SV14 D _(C)	1214	1216	26	34	31	1220		
MD SV15 S _(S)	1222	1223	75	50	64	1225		
MD SV15 M _(S)							202	
MD SV15 D _(S)	1222	1223	61	64	63	1226		
MD SV16 S _(C)	1228	1230				1233		Baker
MD SV16 M _(C)	1228	1230	71	75	79	1234	233	
MD SV16 D _(C)	1228	1230	98	105	104	1234		
SV17 S _(S)	1250	1251	0	0	0	1304		
SV17 M _(S)	1250	1251	3	0	0	1304	244	
SV17 D _(S)	1250	1251	11	12	15	1305		
SV18 S _(S)	1307	1308	504	610	732	1316	313	
SV18 D _(S)	1307	1308	1036	1145	1229	1317		
SV20 S _(S)	1335	1336	167	154	146	1340		
SV20 M _(S)	1335	1336	157	155	154	1340	486	
SV20 D _(S)	1335	1336	177	180	182	1341		cal check

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:



Soil Vapor Probe Sampling Log

Location/Project

Name: Long-Term Monitoring, Red Hill Bulk Fuel Storage Facility Number: 210045

Date: 8/28/25 Samplers: [REDACTED]

SVMP No: SVMP 18S Sample ID: SVMP-18S
Sample canister no: C10695 Flow Controller number: A10200
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1314 Sample Start Vacuum: 27
Sample End Time: 1321 Sample End Vacuum: 5
Comments:

SVMP No: SVMP 18D Sample ID: SVMP-18D
Sample canister no: C10194 Flow Controller number: A11047
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1315 Sample Start Vacuum: 27
Sample End Time: 1322 Sample End Vacuum: 5
Comments:

SVMP No: SVMP 20S Sample ID: SVMP-20S
Sample canister no: C10452 Flow Controller number: A10699
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1340 Sample Start Vacuum: 28
Sample End Time: 1347 Sample End Vacuum: 5
Comments:

SVMP No: SVMP 20D Sample ID: SVMP-20D
Sample canister no: C10136 Flow Controller number: A10564
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1339 Sample Start Vacuum: 28
Sample End Time: 1347 Sample End Vacuum: 5
Comments:



Soil Vapor Probe Sampling Log

Location/Project

Name:

Long-Term Monitoring, Red Hill Bulk Fuel Storage Facility

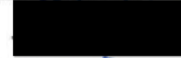
Project Number:

210045

Date:

8/12/25

Samplers:



SVMP No:

SVMP 15S

Sample ID:

SVMP-158

Sample canister no:

C10154

Flow Controller number:

A10640

Canister size:

1.4 L

Rate (mL/min):

150

*as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time:

1240

Sample Start Vacuum:

27

Sample End Time:

1247

Sample End Vacuum:

5

Comments:

SVMP No:

SVMP 15D

Sample ID:

SVMP-15D

Sample canister no:

C10335

Flow Controller number:

A10254

Canister size:

1.4 L

Rate (mL/min):

150

*as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time:

1241

Sample Start Vacuum:

29

Sample End Time:

1249

Sample End Vacuum:

5

Comments:

SVMP No:

SVMP 17S

Sample ID:

SVMP-17S

Sample canister no:

C11908

Flow Controller number:

A10240

Canister size:

1.4

Rate (mL/min):

150

*as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time:

1300

Sample Start Vacuum:

29

Sample End Time:

1308

Sample End Vacuum:

5

Comments:

SVMP No:

SVMP 17D

Sample ID:

SVMP-17D

Sample canister no:

C10333

Flow Controller number:

A10432

Canister size:

1.4

Rate (mL/min):

150

*as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time:

1302

Sample Start Vacuum:

27

Sample End Time:

1310

Sample End Vacuum:

5

Comments:



Soil Vapor Probe Sampling Log

Location/Project

Name: Long-Term Monitoring, Red Hill Bulk Fuel Storage Facility Site ID Number: 210045

Date: 8/28/25

Samplers: [REDACTED]

SVMP No: SVMP 18S Sample ID: SVMP-18S
Sample canister no: C10695 Flow Controller number: A10200
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1314 Sample Start Vacuum: 27
Sample End Time: 1321 Sample End Vacuum: 5
Comments:

SVMP No: SVMP 18D Sample ID: SVMP-18D
Sample canister no: C10194 Flow Controller number: A11047
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1315 Sample Start Vacuum: 27
Sample End Time: 1322 Sample End Vacuum: 5
Comments:

SVMP No: SVMP 20S Sample ID: SVMP-20S
Sample canister no: C10452 Flow Controller number: A10699
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1340 Sample Start Vacuum: 28
Sample End Time: 1347 Sample End Vacuum: 5
Comments:

SVMP No: SVMP 20D Sample ID: SVMP-20D
Sample canister no: C10136 Flow Controller number: A10564
Canister size: 1.4L Rate (mL/min): 150 *as specified on flow controller

Notes:

1. Sample collected after SVMP purged at 1L/min for 2 min
2. Shut-in test performed prior to sample collection

Sample Start Time: 1339 Sample Start Vacuum: 28
Sample End Time: 1347 Sample End Vacuum: 5
Comments:

08/12/2025 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