

Date - 04/02/2024

3

Activity - Monthly SVMP

Team - [REDACTED]

Location - RHBF-SF

Weather - Rainy, Cloudy

PPE - Level D

R-F - E₂ HSP/WP/Navy PPM

0705	Arrive @ Addit 6, safety Brief, Cal PID
0710	Enter Addit 6
0725	Arrive @ <u>SVMP 7 + 8</u> (sample bags in cart)
0745	Exited Addit 6 to troubleshoot PID w/ Matt Neal; Cal check
0830	Enter Addit 6
0845	Arrive @ <u>SVMP 5 + 6</u>
0849	Arrive @ <u>SVMP 2</u>
0905	Arrive @ <u>SVMP 3 + 4</u>
0932	Arrive @ <u>SVMP 9 + 10</u>
0943	Cal check @ SVMP 10
0946	Arrive @ <u>SVMP 11 + 12</u>
0959	Arrive @ <u>SVMP 13 + 14</u>
1020	Arrive @ <u>SVMP 15 + 16</u>
1030	Arrive @ <u>SVMP 17 + 18</u>
1045	Arrive @ <u>SVMP 20</u>
1055	Cal check @ SVMP 20
1100	Exit RHBF-SF, E ₂ off site

* All silicon mats replaced over SVMPs



DAILY INSTRUMENT CALIBRATION LOG

Date: 04/02/2024

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.) OR Zeroing Gas (Manufacturer/Lot No./Exp.)	Calibration Reading (ppbv)	Pass? (Y/N)	
304-402761509-1 6/20/2021 GASCO	0	Y	
Span Calibration			
Calibration Gas – 10 ppm, Isobutylene (Manufacturer/Lot No./Exp.)	Calibration Reading (ppbv)	Pass? (Y/N)	
304-402504200-1 10/31/2020 GASCO	9997	Y	

Calibration Pass Criteria*: (1) Zero calibration = ± 100 ppb, (2) Span Calibration = ± 3% (300 ppb)

Temperature (°F) (measured from PID): 79°

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)	
0749	304-402544200-1 10/31/2020 GASCO	9994	Y	
0759	"	9996	Y	
0830	"	1004	Y	
0943	"	1029	Y	
1053	"	1035	Y	

Calibration Check Pass Criteria*: Span Calibration Gas = ± 10% (1,000 ppb)

Date: 04/02/2024

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

Soil Vapor Monitoring Log

Contract No.: <u>N62742-17-D-1802 CTO N6274221F0148</u>	Date: <u>04/02/2024</u>
E2 Job No.: <u>210045</u>	
Project Title: <u>Long-Term Monitoring, Red Hill Bulk Fuel Storage Facility (RHBFSF)</u>	Location: <u>RHBFSF, JBPHH, Hawaii</u>
Personnel: XXXXXXXXXX	
Instrument Model: <u>ppBRAE 3000 (PGM-7340)</u>	Serial No.: <u>594-906662</u>
Calibration: <u>per SOP (see Instrument Calibration Log)</u>	

SVMP No. (Material)	Purge Start Time	Sample Start Time	PID Reading ²			Reading Time	Background PID Reading	Notes
			1	2	3			
SV02 S _(C)	0859	0907	∅	∅	∅	0902	81	
SV02 M _(C)	0859	0901	∅	∅	∅	0902		
SV02 D _(C)	0859	0902	∅	∅	∅	0904		
SV03 S _(S)	0923	0924	∅	∅	∅	0928	63	Need to replace Bag *
SV03 M _(S)	0923	0924	∅	∅	∅	0928		
SV03 D _(S)	0920	0928	∅	∅	∅	0929		
SV04 S _(S)	0907	0908	∅	∅	∅	0910	70	
SV04 M _(S)	0907	0910	∅	∅	∅	0912		
SV04 D _(S)	0909	0912	∅	∅	∅	0915		
SV05 S _(S)	0845	0846	680	831	847	0851	135	
SV05 M _(S)	0845	0851	656	671	717	0853		
SV05 D _(S)	0848	0851	∅	4	10	0855		
SV06 S _(C)	0839	0842	1994	2064	3085	0842	32	
SV06 M _(C)	0839	0844	757	649	525	0845		
SV07 S _(S)	0725	0726	151	149	144	0745	14	
SV07 M _(S)	0730	0731	175	177	178	0746		
SV07 D _(S)	0735	0736	205	201	256	0747		
SV08 S _(S)	0725	0726	124	120	110	0740	∅	
SV08 M _(S)	0725	0728	152	151	150	0849		
SV08 D _(S)	0728	0732	198	205	210	0849		
SV09 S _(S)	0933	0934	90	89	84	0944	259	
SV09 M _(S)	0930	0937	80	73	69	0944		
SV09 D _(S)	0939	0940	70	73	68	0945		
SV10 S _(C)	0932	0934	∅	∅	∅	0938	57	
SV10 M/D _(C)	0930	0940	140	139	127	0941		

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 Monitoring Log

Date: 04/02/2024

SVMP No.	Purge Start Time	Sample Start Time	PID Reading ²			Reading Time	Background PID Reading	Notes	
			1	2	3				
SV11 S _(C)	0948	0948	φ	φ	φ	0955	104		
SV11 M/D _(C)	0948	0951	8	9	14	0955			
SV12 S _(C)	0948	0950	5	7	4	0952	107		
SV12 M _(C)	0949	0952	φ	16	12	0953			
SV12 D _(C)	0951	0953	φ	φ	φ	0954			
SV13 S _(S)	0950	0959	9	11	14	1010	170		
SV13 M _(S)	1001	1002	20	23	22	1010			
SV13 D _(S)	1005	1008	45	48	56	1011			
SV14 S _(C)	1001	1003	14	13	14	1006	81		
SV14 M _(C)	1001	1005	φ	φ	1	1008			
SV14 D _(C)	1004	1007	φ	φ	φ	1008			
MD SV15 S _(S)	1014	1015	13	14	19	1020	109		
MD SV15 M _(S)	_____								Blocked
MD SV15 D _(S)	1018	1019	16	13	17	1020			
MD SV16 S _(C)	_____							Blocked	
MD SV16 M _(C)	1018	1020	φ	φ	φ	1021	120		
MD SV16 D _(C)	1018	1022	φ	7	14	1025			
SV17 S _(S)	1032	1033	237	207	178	1041	406		
SV17 M _(S)	1034	1035	182	154	145	1041			
SV17 D _(S)	1036	1037	118	111	104	1042			
SV18 S _(S)	1032	1033	503	578	427	1035	541		
SV18 D _(S)	1036	1037	608	804	1049	1038			
SV20 S _(S)	1048	1047	140	122	117	1050	372		
SV20 M _(S)	1048	1047	239	243	246	1051			
SV20 D _(S)	1048	1050	195	179	172	1052			

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Comments:

04/02/2024 Red Hill SVMP Photographs



Photo 1. SVMP-02



Photo 2. SVMP-3



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