

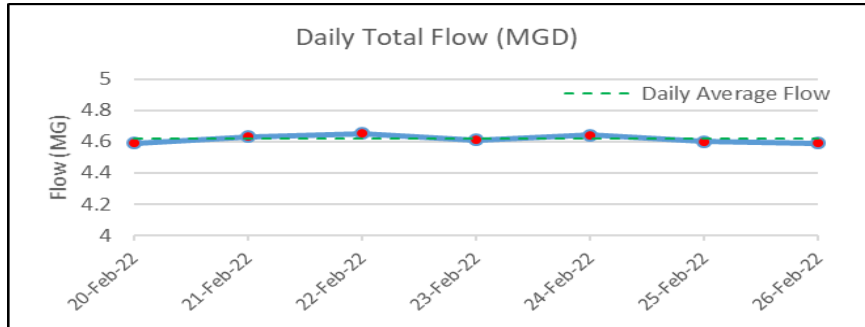
Red Hill Well Weekly Operations Report

0000, 27 FEB 2022 – 2359, 06 MAR 2022

1. **Execution Summary:** Over the period of report, daily pumping operations averaged 4.60 million gallons per day; 252 samples taken; all influent/effluent results are below EAL; no turbulence noted inside boom; No sheen noticed in Halawa stream; all equipment is functioning; No spills have occurred; 3 of 5 inline analyzers displaying fault indication – no impacts to operation as system is continuing to be monitored via bench analyzers IAW RHRMP.

2. Production Data

Weekly Volume (MG)	32.2
Daily Average (MGD)	4.60
Total Pumped to Date (MG)	162.3



3. GAC Operations

	Currently in Operation	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		29JAN	29JUN
Train 2	X		29JAN	29JUN
Train 3	X		29JAN	29JUN
Train 4		04 MAR ¹	29JAN	29JUN

4. Process Control Sampling

Influent Parameter ²	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm

Lead Tank Effluent Parameter ⁴	Number of Samples	Number of Detectable Samples	Highest Level Detected ²	Units ¹
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm

Lag Tank Effluent Parameter ⁵	Number of Samples	HI DOH Effluent Limitations	Highest Level Detected ²	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0.30	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0.40	ND	ppm

Notes:

1. Train 4 cycled for two hours to prevent stagnation of water inside GAC system.
2. Sampling taken every four hours starting at 0300; total of six samples per day
3. Minimum detection limit for Portable Analyzers: TPH-d at 0.1 ppm, and TPH-g at 0.2 ppm
4. One part per million (ppm) is equivalent to 1 milligram per liter (mg/L)
5. Sampling taken from one active train every four hours, in rotation, starting at 0300, after both the lead and the lag tanks; total of twelve samples per day

5. Notes: NSTR

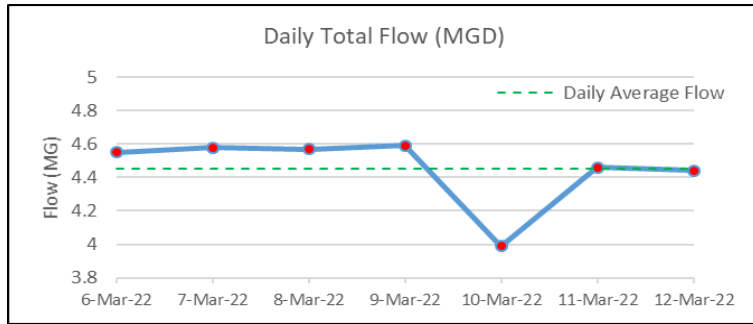
Red Hill Well Weekly Operations Report

0000, 06 MAR 2022 – 2359, 12 MAR 2022

1. **Execution Summary:** Over the period of report, daily pumping operations averaged 4.45 million gallons per day. On 10 March, an unplanned power outage interrupted operations and accounts for the decreased daily flow rate; 252 samples taken; all influent/effluent results are below EAL; no turbulence noted inside boom; No sheen noticed in Halawa stream; 10 of 10 inline analyzers have been installed and are operational for the monitoring of influent/effluent along with bench analyzers IAW RHRMP.

2. Production Data

Weekly Volume (MG)	31.2
Daily Average (MGD)	4.45
Total Pumped to Date (MGD)	193.5



3. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		29JAN	29JUN
Train 2	X		29JAN	29JUN
Train 3	X		29JAN	29JUN
Train 4		11MAR ¹	29JAN	29JUN

4. Process Control Sampling

Influent Parameter ²	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm
Lead Tank Effluent Parameter ⁵	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm
Lag Tank Effluent Parameter ⁵	Number of Samples	HI DOH Effluent Limitations	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0.30	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0.40	ND	ppm

Notes:

1. Train 4 cycled for two hours to prevent stagnation of water inside GAC system.
2. Sampling taken every four hours starting at 0300; total of six samples per day
3. Minimum detection limit for Portable Analyzers: TPH-d at 0.1 ppm, and TPH-g at 0.2 ppm
4. One part per million (ppm) is equivalent to 1 milligram per liter (mg/L)
5. Sampling taken from one active train every four hours, in rotation, starting at 0300, after both the lead and the lag tanks; total of twelve samples per day

5. Notes: NSTR

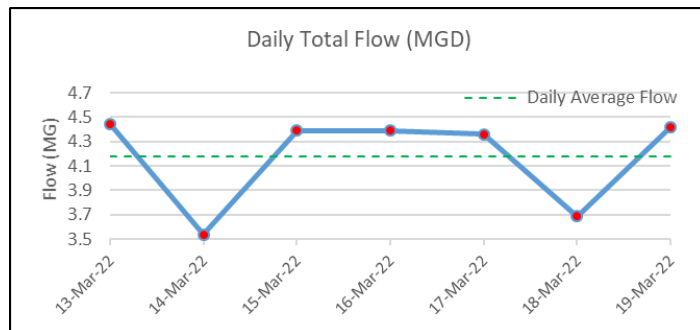
Red Hill Well Weekly Operations Report

0000, 13 MAR 2022 – 2359, 19 MAR 2022

1. **Execution Summary:** Over the period of report, daily pumping operations averaged 4.18 million gallons per day. On 14 March, an unplanned power outage interrupted operations and accounts for the decreased daily flow rate. On 18 March, an unplanned outage coincided with a planned operational pause to allow for preventative maintenance on the pump and rearrangement of the curtain boom; 252 samples taken; all influent/effluent results are below EAL; no turbulence noted inside boom; No sheen observed in Halawa stream; 9 of 10 inline analyzers are operational for the monitoring of influent/effluent along with bench analyzers IAW RHRMP.

2. Production Data

Weekly Volume (MG)	29.2
Daily Average (MGD)	4.18
Total Pumped to Date (MGD)	222.6



3. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		29JAN	29JUN
Train 2	X		29JAN	29JUN
Train 3	X		29JAN	29JUN
Train 4		18MAR ¹	29JAN	29JUN

4. Process Control Sampling

Influent Parameter ²	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm
Lead Tank Effluent Parameter ⁵	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm
Lag Tank Effluent Parameter ⁵	Number of Samples	HI DOH Effluent Limitations	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0.30	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0.40	ND	ppm

Notes:

1. Train 4 cycled for two hours to prevent stagnation of water inside GAC system.
2. Sampling taken every four hours starting at 0300; total of six samples per day
3. Minimum detection limit for Portable Analyzers: TPH-d at 0.1 ppm, and TPH-g at 0.2 ppm
4. One part per million (ppm) is equivalent to 1 milligram per liter (mg/L)
5. Sampling taken from one active train every four hours, in rotation, starting at 0300, after both the lead and the lag tanks; total of twelve samples per day

5. Notes: NSTR

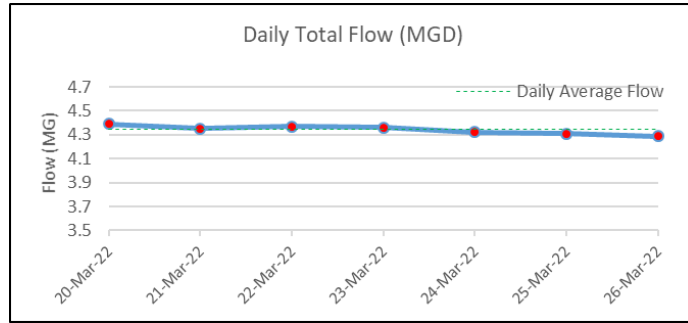
Red Hill Well Weekly Operations Report

0000, 20 MAR 2022 – 2359, 26 MAR 2022

1. **Execution Summary:** Over the period of report, daily pumping operations averaged 4.34 million gallons per day; 252 samples taken; all influent/effluent results are below EAL; no turbulence noted inside boom; No sheen observed in Halawa stream; 9 of 10 inline analyzers are operational for the monitoring of influent/effluent along with bench analyzers IAW RHRMP.

2. Production Data

Weekly Volume (MG)	30.4
Daily Average (MGD)	4.34
Total Pumped to Date (MGD)	253.0



3. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		29JAN	29JUN
Train 2	X		29JAN	29JUN
Train 3	X		29JAN	29JUN
Train 4		25MAR ¹	29JAN	29JUN

4. Process Control Sampling

Influent Parameter ²	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm
Lead Tank Effluent Parameter ⁵	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm
Lag Tank Effluent Parameter ⁵	Number of Samples	HI DOH Effluent Limitations	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0.30	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0.40	ND	ppm

Notes:

1. Train 4 cycled for two hours to prevent stagnation of water inside GAC system.
2. Sampling taken every four hours starting at 0300; total of six samples per day
3. Minimum detection limit for Portable Analyzers: TPH-d at 0.1 ppm, and TPH-g at 0.2 ppm
4. One part per million (ppm) is equivalent to 1 milligram per liter (mg/L)
5. Sampling taken from one active train every four hours, in rotation, starting at 0300, after both the lead and the lag tanks; total of twelve samples per day

5. Notes: NSTR

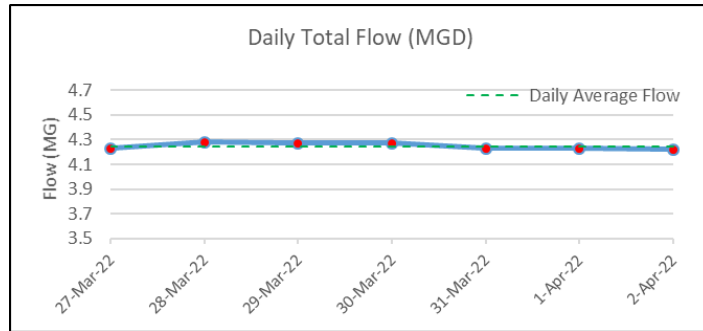
Red Hill Well Weekly Operations Report

0000, 27 MAR 2022 – 2359, 02 APR 2022

1. **Execution Summary:** Over the period of report, daily pumping operations averaged 4.25 million gallons per day; 252 samples taken; all influent/effluent results are non-detects; no turbulence noted inside boom; No sheen observed in Halawa stream; On 30 MAR, the Inline Analyzer OEM technician was onsite and completed corrective maintenance and calibration on the Inline analyzers. 10 of 10 inline analyzers are operational for the monitoring of influent/effluent along with bench analyzers IAW RHRMP.

2. Production Data

Weekly Volume (MG)	29.4
Daily Average (MGD)	4.25
Total Pumped to Date (MGD)	283.0



3. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		29JAN	29JUN
Train 2	X		29JAN	29JUN
Train 3	X		29JAN	29JUN
Train 4		01APR ¹	29JAN	29JUN

4. Process Control Sampling

Influent Parameter ²	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm

Lead Tank Effluent Parameter ⁵	Number of Samples	Number of Detectable Samples	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0	ND	ppm

Lag Tank Effluent Parameter ⁵	Number of Samples	HI DOH Effluent Limitations	Highest Level Detected ³	Units ⁴
Total Petroleum Hydrocarbons as Gasoline	42	0.30	ND	ppm
Total Petroleum Hydrocarbons as Diesel	42	0.40	ND	ppm

Notes:

1. Train 4 cycled for two hours to prevent stagnation of water inside GAC system.
2. Sampling taken every four hours starting at 0300; total of six samples per day
3. Minimum detection limit for Portable Analyzers: TPH-d at 0.1 ppm, and TPH-g at 0.2 ppm
4. One part per million (ppm) is equivalent to 1 milligram per liter (mg/L)
5. Sampling taken from one active train every four hours, in rotation, starting at 0300, after both the lead and the lag tanks; total of twelve samples per day

5. Notes: NSTR