

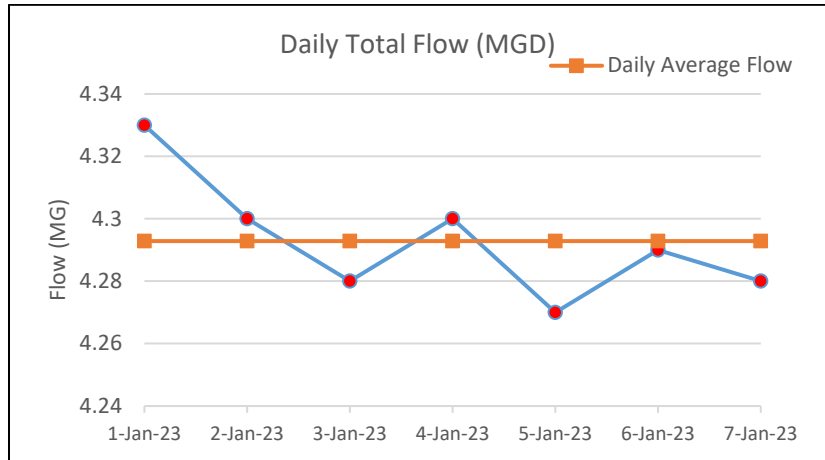
Red Hill Well Weekly Operations Report

0000, 01 JAN 2023 – 2359, 07 JAN 2023

Execution Summary: Over the period of this report, daily pumping operations averaged 4.29 million gallons per day. Forty-two samples taken per week; all influent/effluent results are non-detects. No turbulence noted inside boom and no sheen observed in Halawa stream. PPB influent analyzer showed a fault code on 17 Dec 2022 so crew conducted troubleshooting steps and fault code was not resolved nor cause established (PM contacted the manufacturer). As of 23 Dec 22, manufacturer POC believes that the issue is the pump in the analyzer and currently, the pumps are on back order. Nine of 10 inline analyzers are operational for the monitoring of influent/effluent along with benchtop analyzers IAW RHSRMP.

1. Production Data

Weekly Volume (MG)	25.73
Daily Average (MGD)	4.29
Total Pumped to Date (MGD)	1461.24



2. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		13AUG	TBD
Train 2	X		21AUG	TBD
Train 3	X		28AUG	TBD
Train 4		20 OCT	04 SEP	TBD

3. 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

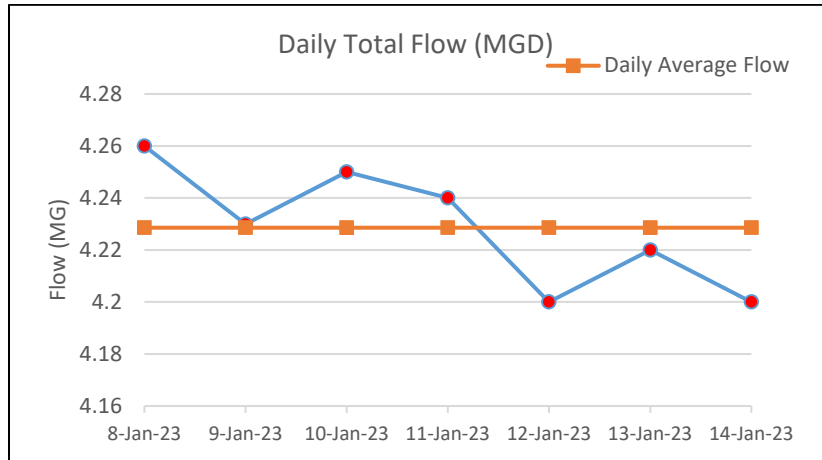
Red Hill Well Weekly Operations Report

0000, 08 JAN 2023 – 2359, 14 JAN 2023

Execution Summary: Over the period of this report, daily pumping operations averaged 4.23 million gallons per day. Forty-two samples taken per week; all influent/effluent results are non-detects. No turbulence noted inside boom and no sheen observed in Halawa stream. PPB influent analyzer showed a fault code on 17 Dec 2022 so crew conducted troubleshooting steps and fault code was not resolved nor cause established (PM contacted the manufacturer). As of 23 Dec 22, manufacturer POC believes that the issue is the pump in the analyzer and currently, the pumps are on back order. Nine of 10 inline analyzers are operational for the monitoring of influent/effluent along with benchtop analyzers IAW RHSRMP.

1. Production Data

Weekly Volume (MG)	25.34
Daily Average (MGD)	4.23
Total Pumped to Date (MGD)	1490.84



2. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		13AUG	TBD
Train 2	X		21AUG	TBD
Train 3	X		28AUG	TBD
Train 4		20 OCT	04 SEP	TBD

3. 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

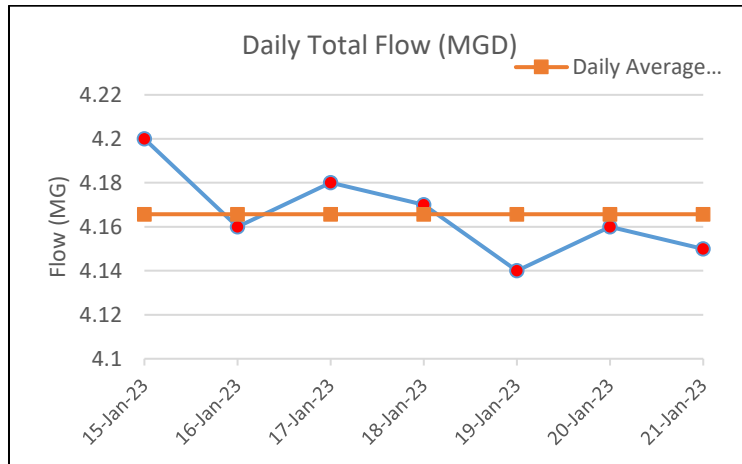
Red Hill Well Weekly Operations Report

0000, 15 JAN 2023 – 2359, 21 JAN 2023

Execution Summary: Over the period of this report, daily pumping operations averaged 4.17 million gallons per day. Forty-two samples taken per week; all influent/effluent results are non-detects. No turbulence noted inside boom and no sheen observed in Halawa stream. Ten of 10 inline analyzers are operational for the monitoring of influent/effluent along with benchtop analyzers IAW RHSRMP.

1. Production Data

Weekly Volume (MG)	24.95
Daily Average (MGD)	4.17
Total Pumped to Date (MGD)	1519.99



2. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		13AUG	TBD
Train 2	X		21AUG	TBD
Train 3	X		28AUG	TBD
Train 4		20 OCT	04 SEP	TBD

3. 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

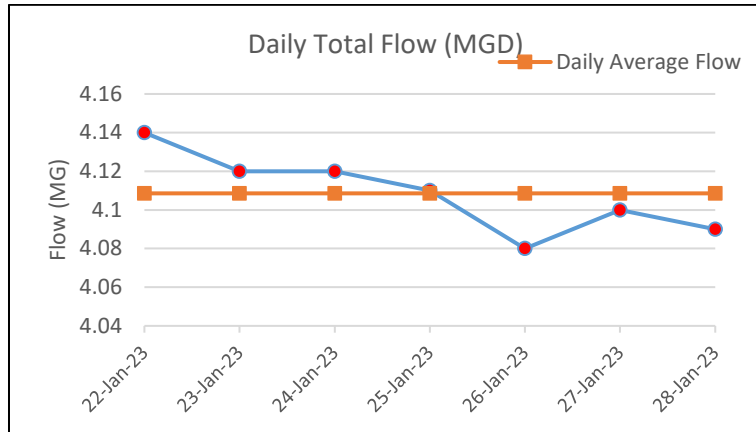
Red Hill Well Weekly Operations Report

0000, 22 JAN 2023 – 2359, 28 JAN 2023

Execution Summary: Over the period of this report, daily pumping operations averaged 4.11 million gallons per day. Forty-two samples taken per week; all influent/effluent results are non-detects. No turbulence noted inside boom and no sheen observed in Halawa stream. Ten of 10 inline analyzers are operational for the monitoring of influent/effluent along with benchtop analyzers IAW RHSRMP. NOTE: Planned date to take Train #1 offline is 30 January 23 for upcoming replacement of Train 1 vessels.

1. Production Data

Weekly Volume (MG)	24.62
Daily Average (MGD)	4.11
Total Pumped to Date (MGD)	1548.75



2. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X		13AUG	TBD
Train 2	X		21AUG	TBD
Train 3	X		28AUG	TBD
Train 4		20 OCT	04 SEP	TBD

3. 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

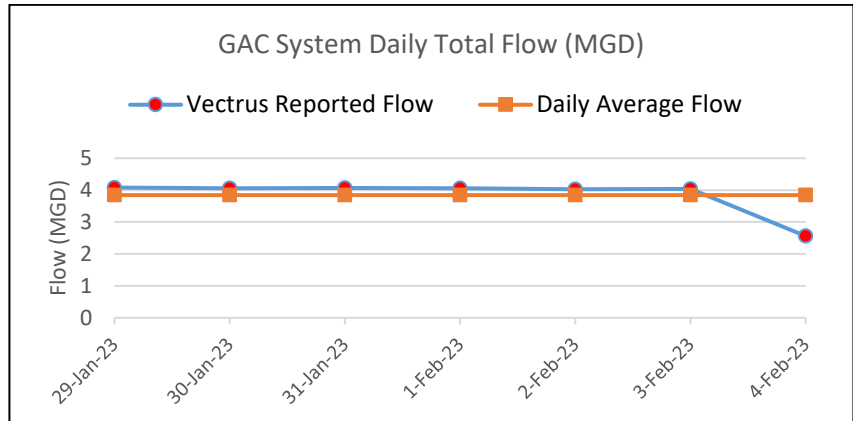
Red Hill Well Weekly Operations Report

0000, 29 JAN 2023 – 2359, 04 FEB 2023

Execution Summary: Over the period of this report, daily pumping operations averaged 3.84 million gallons per day. Forty-two samples taken per week; all influent/effluent results are non-detects. No turbulence noted inside boom and no sheen observed in Halawa stream. Train #1 taken offline at 0818 on 04 February 2023 and Train #4 brought online. Power outage at 0818 on 04 February 2023, with power restored at 1705. Ten of 10 inline analyzers are operational for the monitoring of influent/effluent along with benchtop analyzers IAW RHSRMP.

1. Production Data

Weekly Volume (MG)	22.81
Daily Average (MGD)	3.84
Total Pumped to Date (MGD)	1575.64



2. GAC Operations

	In Operation During Period of Report	Date Since Last Operation	Date Since Media Change	Estimate Date of Media Change
Train 1	X-partial OFF from 04Feb23	04Feb2023 at 0818	13AUG	TBD
Train 2	X		21AUG	TBD
Train 3	X		28AUG	TBD
Train 4	X-partial ON from 04Feb23	20 OCT	04 SEP	TBD

3. 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