

# ENVIRONMENTAL STAKEHOLDERS FORUM

TRANSNET

22 MAY 2019



TNPA Boardroom

Transnet 4.0

Admired

MDS

United

Digital

Agile



- Welcome members
- Apologies
- Approval of the Previous Minutes
- Action Items From Previous Meeting
- Property Discoloration Project
- AEL Project List
- Stoppage Report
- Monitoring Results
  - Ambient Monitoring – TSP, PM10 and PM2.5
  - Borderline e-Samplers
  - In-Stack Monitors
  - Fallout
  - Flux
- Utilization of Dust Mitigation Tools
- Other
- Next Meeting

# Action Items from Previous Meeting

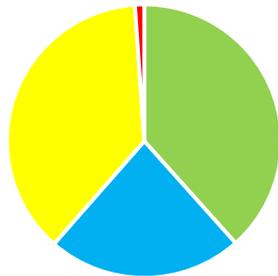
Action	Current Status
Blue Water Bay monitoring info was added	Completed
Complaints register amended to contain descriptions	Completed



# Property Discoloration Project

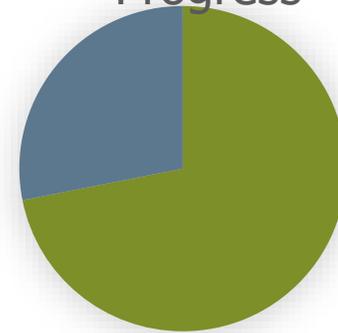
	Saldanha	Langebaan	Vredenburg	St Helena/ Elands bay	Total
<b>Total Register Properties Registered</b>	247	148	241	7	643
<b>Total Properties Completed</b>	172	89	196	6	463
<b>Total Properties Measured but still need signature</b>	0	0	0	0	0
<b>Total Properties with no Compensation</b>	75	59	45	1	180
<b>Total Properties outstanding (To Measure)</b>	0	0	0	0	0

Property Distribution



■ Saldanha ■ Langebaan ■ Vredenburg ■ Other

Progress



■ Completed Properties ■ Removed Properties

# Stoppage Report

Total – 01 January to 31 March 2019



## Ship Side

Time Start	Time end	Duration	Reason
03-Jan-2019 10:22	03-Jan-2019 10:33	11	WET STOCKPILE H3.
07-Jan-2019 18:30	07-Jan-2019 18:45	15	STOP RECLAIMING AT SR2 - D3 - FB ORE DUE TO EXCESSIVE DUST AT SL2. ALL ADDITIONAL WATER IS OPEN. SUPERVISOR PUT EXTRA WATER ON CV113. (NO DUST AT SR2/D3 ONLY AT SL2)
08-Jan-2019 14:40	08-Jan-2019 15:12	32	STOP RECLAIMING AT SR1/B2 - LB ORE - ORE DRY. BUSY WETTING B2.
06-Feb-2019 06:40	06-Feb-2019 06:52	12	STOP LOADING TO WET STOCKPILE H1 (SEDIBENG LUMP-ORE).
<b>Total</b>		70	

# Stoppage Report

## Total – 06 Augustus to 06 August 2018



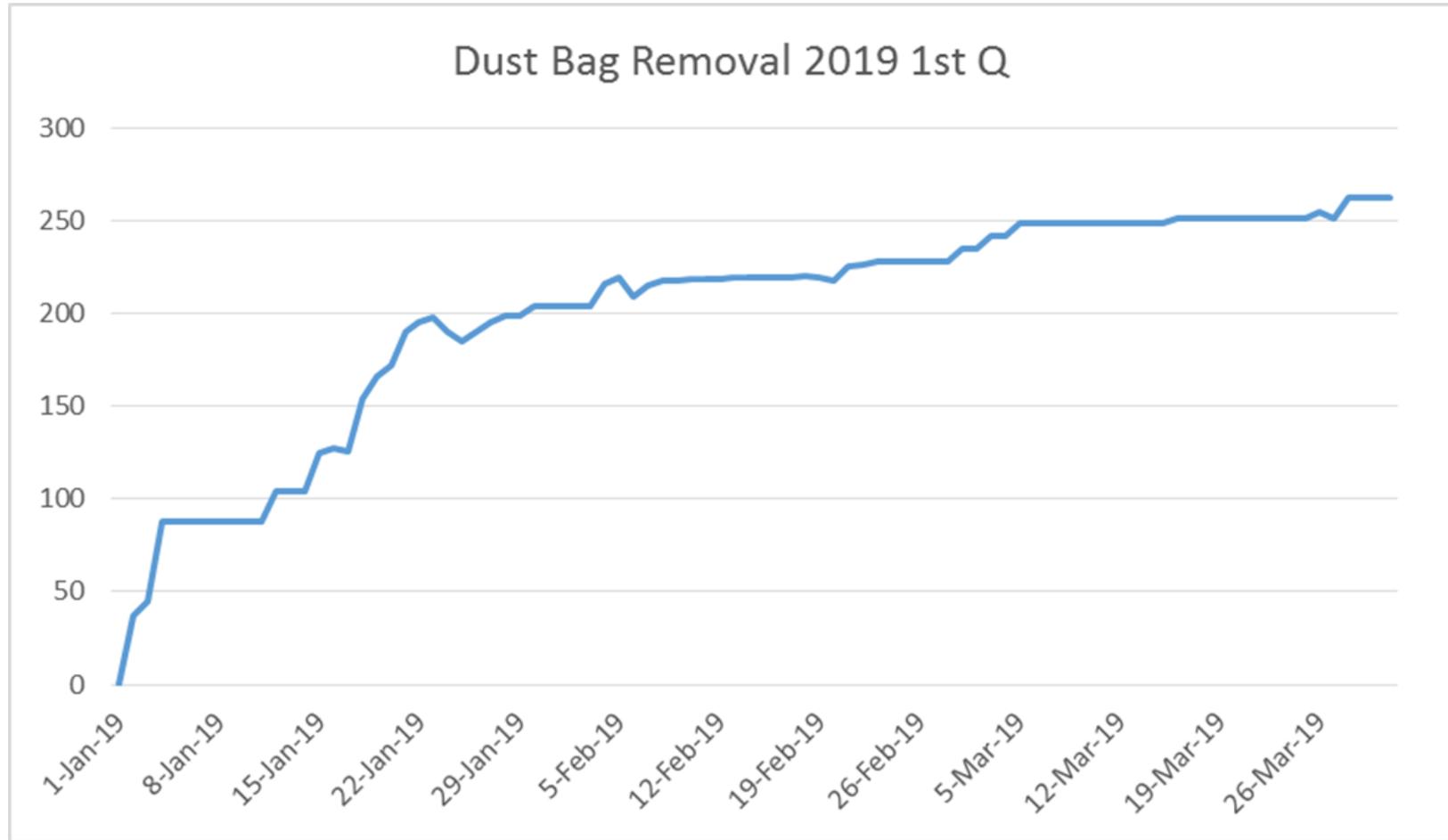
### Train Side

Time Start	Time end	Duration	Reason
01-Feb-2019 10:49	01-Feb-2019 11:06	17	TIP 2 DUSTPLANT FAULTY , STOP PRODUCTION DUE TO DUST IN TIPPLER , STANDBY FOR DUST TO SETTLE
01-Feb-2019 11:06	01-Feb-2019 11:44	38	STANDBY FOR OPS TO PUT EXTRA WATER ON ROUTE TO HELP SUPPRESS THE DUST
01-Feb-2019 11:46	01-Feb-2019 12:15	29	STOP DUE TO DUST AT STOCKPILE B2
01-Feb-2019 14:51	01-Feb-2019 15:09	18	LOST TIME DUE TO LOWERED RATE TO CONTROL DUST BETTER
09-Feb-2019 06:11	09-Feb-2019 07:40	89	STOP DUE TO EXCESSIVE DUST
12-Feb-2019 15:54	12-Feb-2019 16:11	17	STOP PRODUCTION IN ORDER TO ADD ADDITIONAL WATER ON ROUTE.
<b>Total</b>		<b>101</b>	

That equates to 2,85hrs @ 8000t/hour  
 = 22 800tons @ R 27.55/ton  
**= R 628 140 lost in revenue in order to prevent dust and reduce dust levels**



# Dust Bags Removed



# On-Site Monitoring Ambient and In-Stack

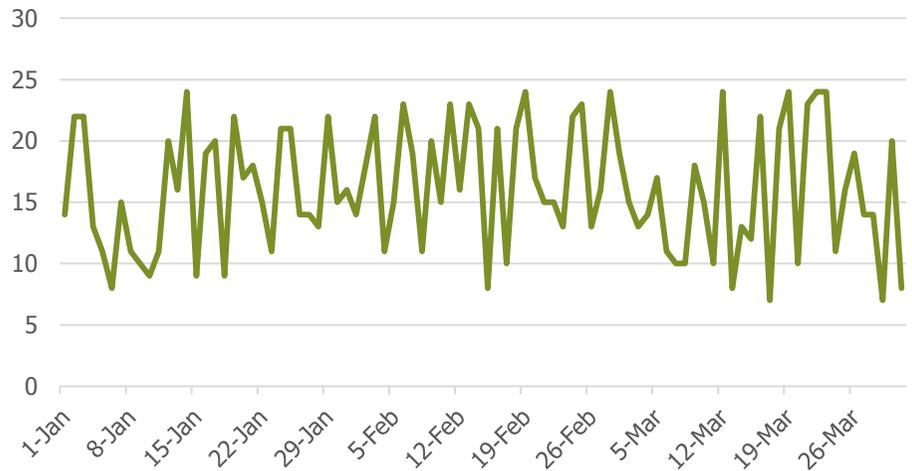


# Monitoring Results

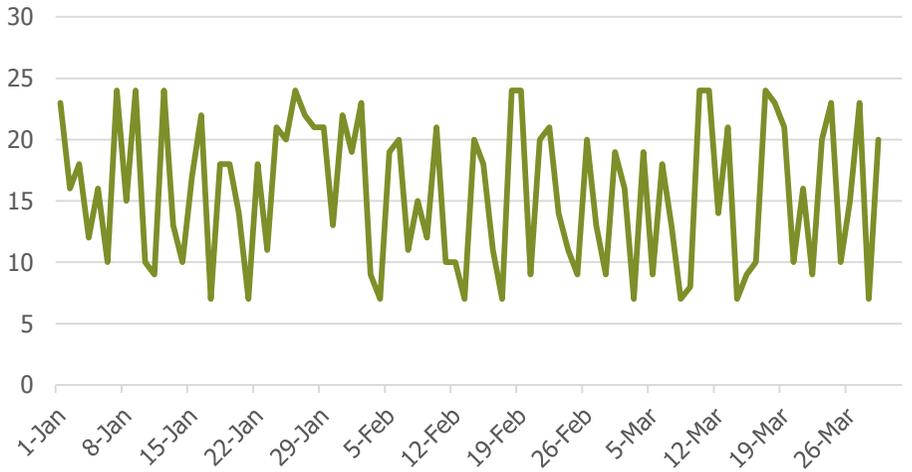
## In-Stack Monitors



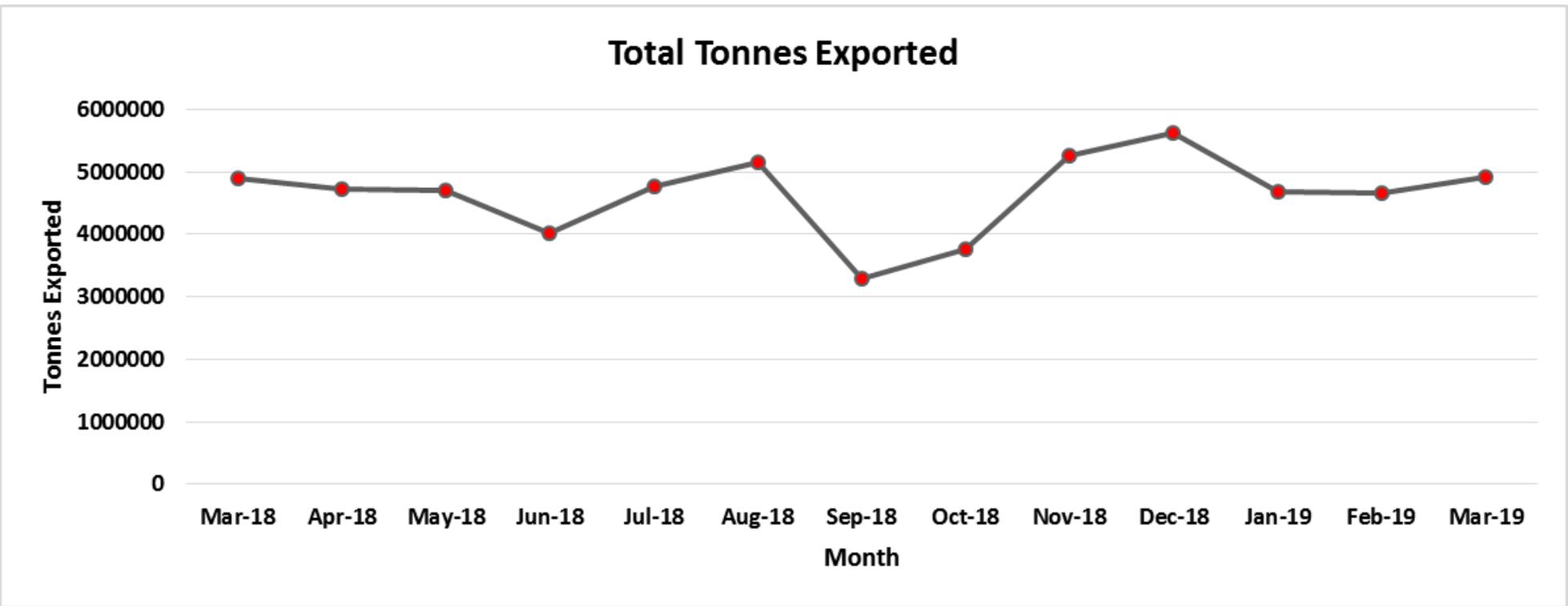
### Tippler 1



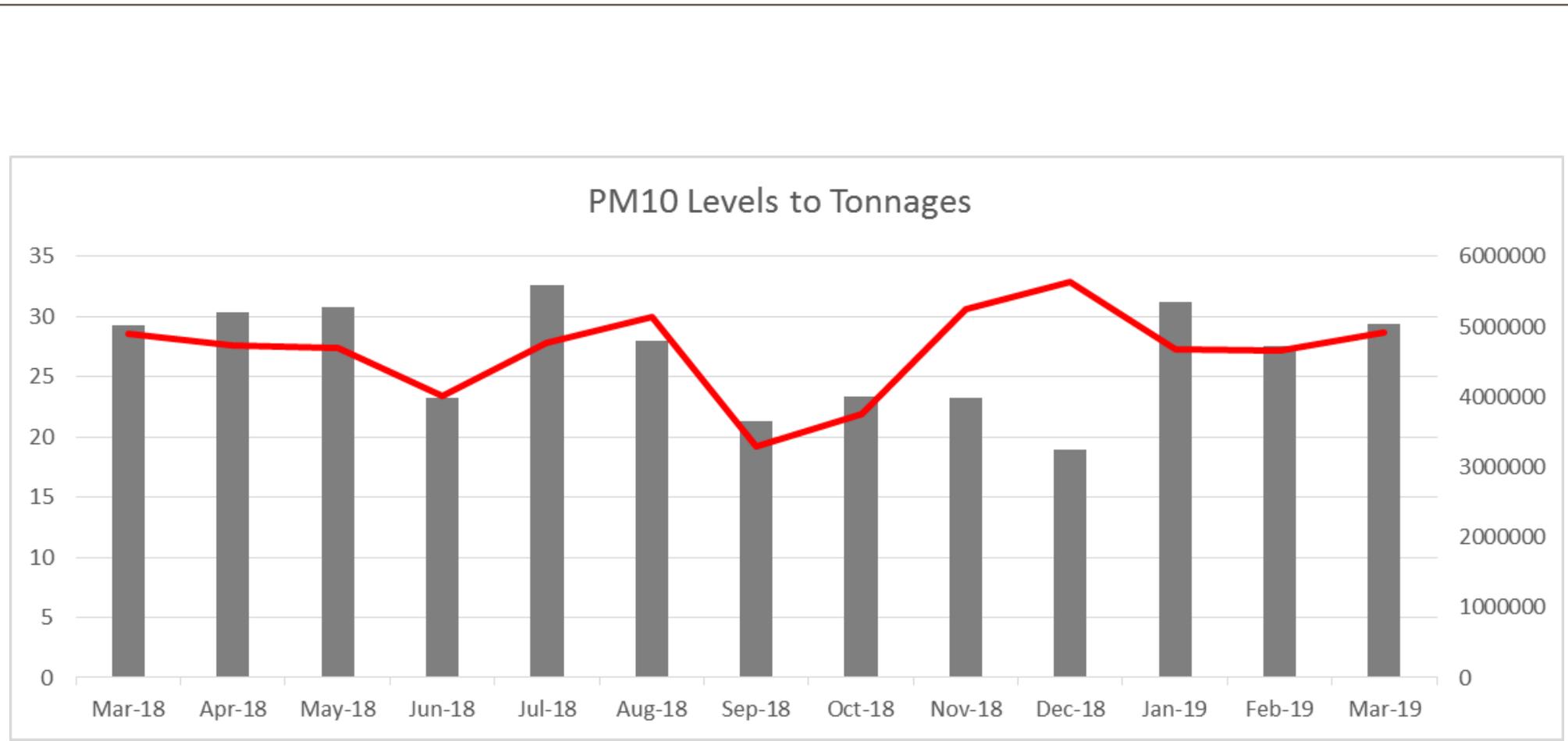
### Tippler 2



# On-Site Monitoring - Ambient and In-Stack



# On-Site Monitoring - Ambient and In-Stack



# Monitoring Results

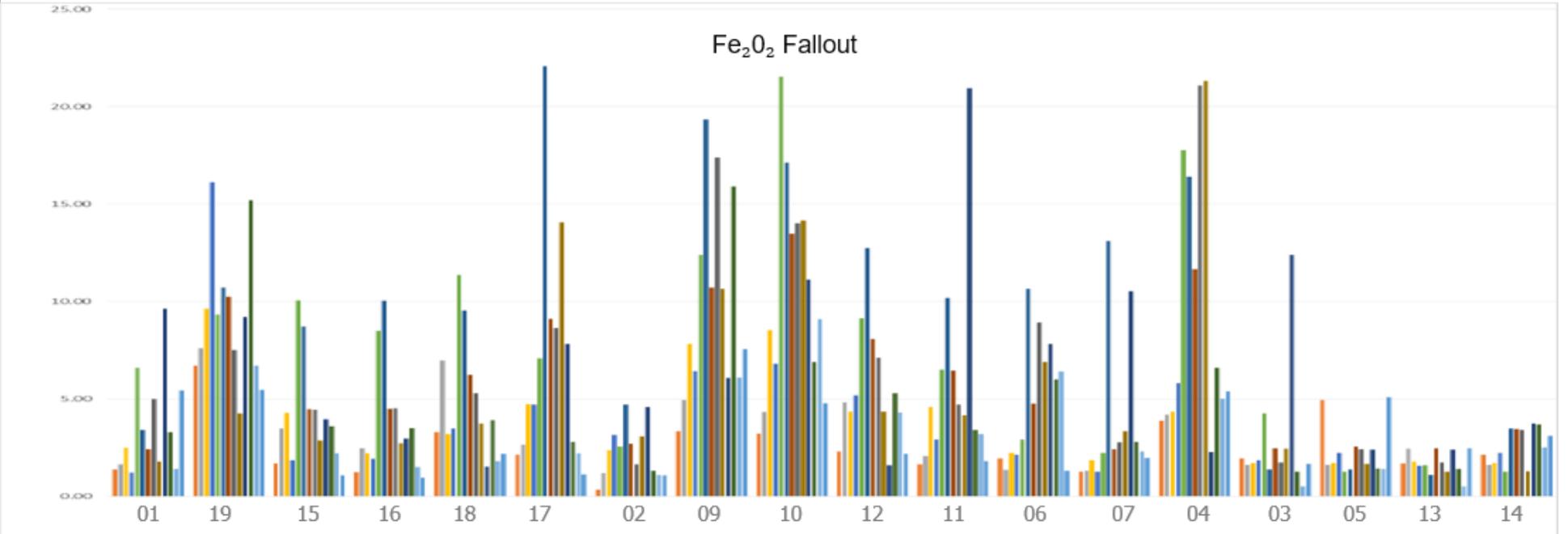
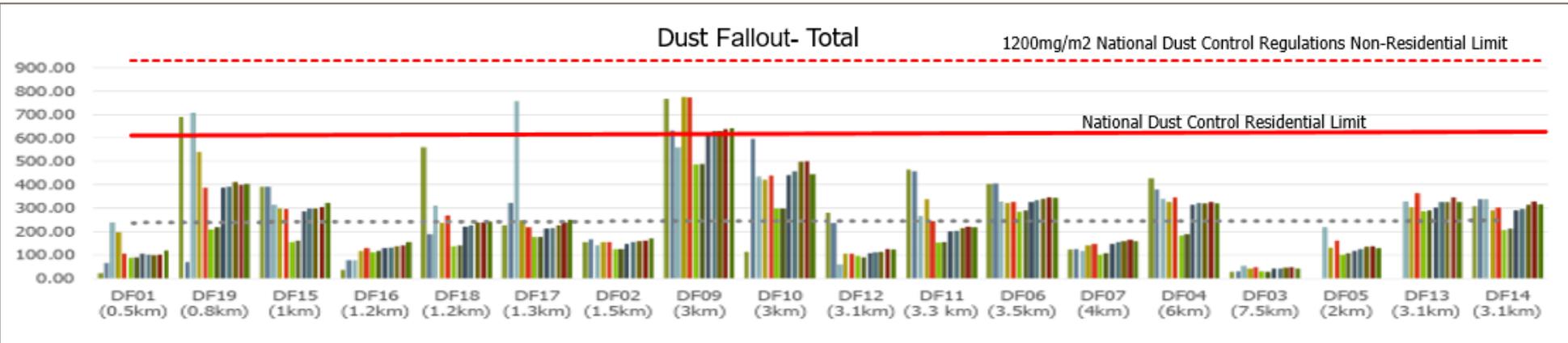
## Dust Fallout - Stations



Dust Fallout Samplers			
25	DF01	TPT Jetty	Measurement of dust fallout on jetty immediately adjacent to TPT dust sources.
26	DF02	NPA Offices	Measurement of dust fallout at TNPA in close proximity downwind of TPT dust sources.
27	DF03	Vredenburg Reservoir	Measurement of dust fallout downwind from TPT on the southerly wind vector.
28	DF04	Lafarge Quarry	Positioned to determine relative contribution of LaFarge Quarry operations to dust fallout.
29	DF05	Blue Water Bay	Downwind of TPT sources on south easterly vector.
30	DF06	SFF Langebaan	Measurement of dust fallout downwind of TPT on the westerly wind vector.
31	DF07	Paradise Beach	Positioned to measure relative background contribution from open sea, receives minimal contribution from ship loading at TPT.
32	DF08	TPT	Located in close proximity to the primary dust emission source at TPT.
33	DF09	Duferco	Located in an arc from NNE (DF09) to NNW (DF14) of the primary TPT sources at a distance of 3km from stockpiles.
34	DF10	Duferco	Located in an arc from NNE (DF09) to NNW (DF14) of the primary TPT sources at a distance of 3km from stockpiles.
35	DF11	Duferco	Located in an arc from NNE (DF09) to NNW (DF14) of the primary TPT sources at a distance of 3km from stockpiles.
36	DF12	Duferco	Located in an arc from NNE (DF09) to NNW (DF14) of the primary TPT sources at a distance of 3km from stockpiles.
37	DF13	Duferco	Located in an arc from NNE (DF09) to NNW (DF14) of the primary TPT sources at a distance of 3km from stockpiles.
38	DF14	Duferco	Located in an arc from NNE (DF09) to NNW (DF14) of the primary TPT sources at a distance of 3km from stockpiles.
39	DF15	Transnet	Located in a V-shaped configuration from NW (DF15) to NNE (DF19) on TNPA property in close proximity to the Terminal.
40	DF16	Transnet	Located in a V-shaped configuration from NW (DF15) to NNE (DF19) on TNPA property in close proximity to the Terminal.
41	DF17	Transnet	Located in a V-shaped configuration from NW (DF15) to NNE (DF19) on TNPA property in close proximity to the Terminal.
42	DF18	Transnet	Located in a V-shaped configuration from NW (DF15) to NNE (DF19) on TNPA property in close proximity to the Terminal.
43	DF19	Transnet	Located in a V-shaped configuration from NW (DF15) to NNE (DF19) on TNPA property in close proximity to the Terminal.

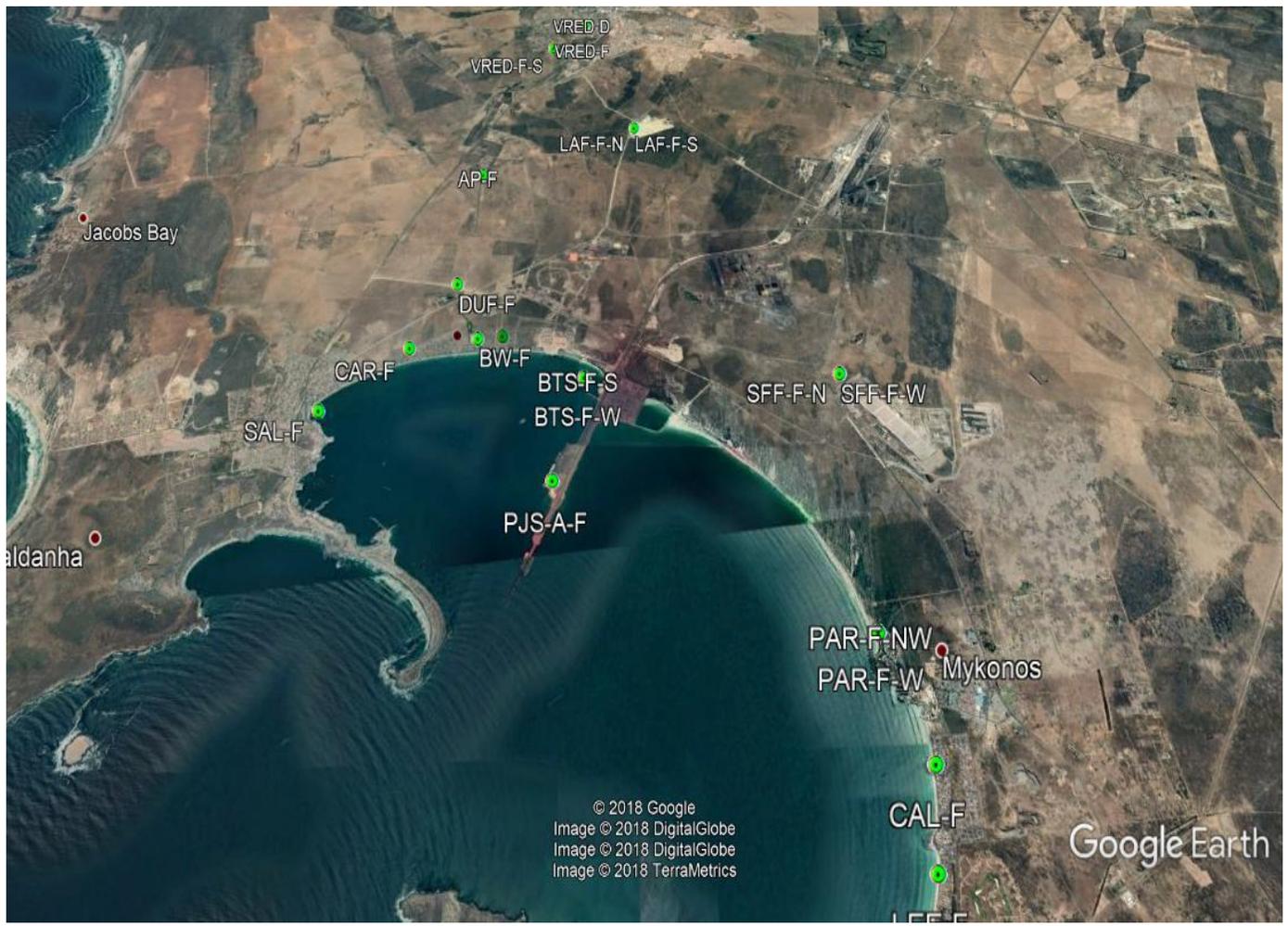
# Monitoring Results

## Dust Fallout - Total



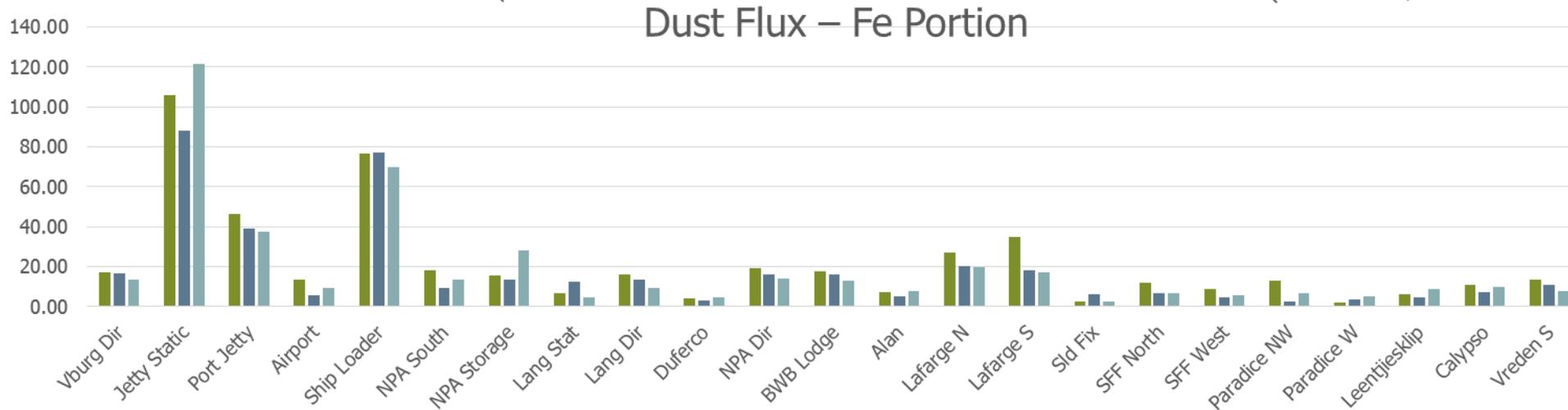
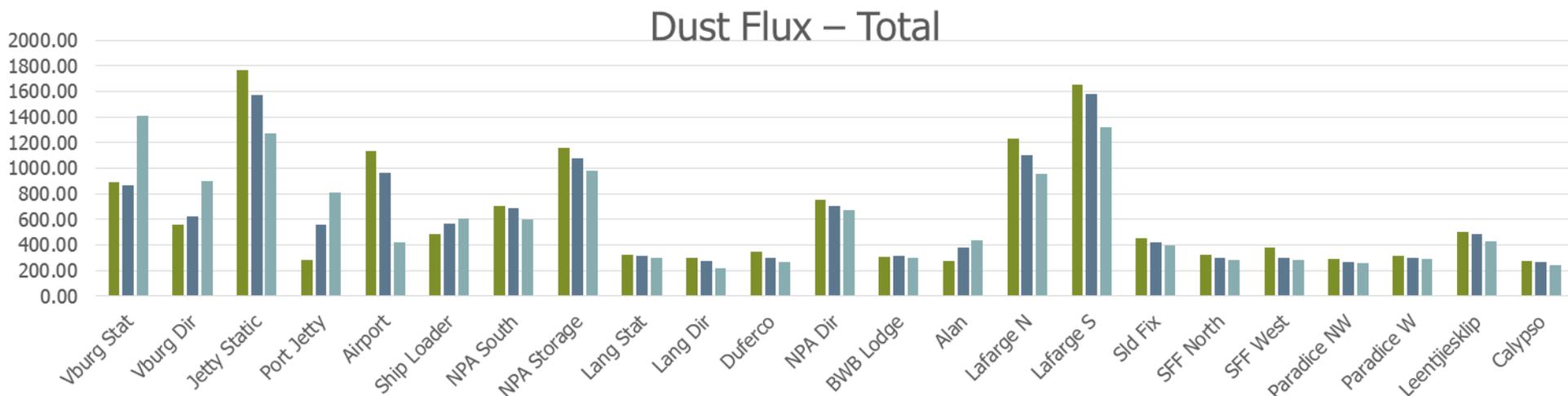
# Monitoring Results

## Dust Flux



# Monitoring Results

## Dust Flux - Total



Equipment	Usage	Hours
Dust Plant 1	100%	24/7
Dust Plant 2	100%	24/7
Pre-Tippler Sprayer	100%	24/7
Water Cannons	100%	24/7
Moisture Analyzer	100%	24/7
Vacuum Truck	70%	When Required
Water Truck	88%	8 Hours
Sweeper Trucks (average)	33%	8 Hours
Road Cleaner	90%	8 Hours
Chemical on Roads	88%	8 Hours



# Complaints

Month	Total Complaints	Noise	Spills on Roads	Fallout	Discoloured Properties	Other
January	0	0	0	0	0	0
February	6	1	2	3	0	0
March	1	0	0	1	0	0
<b>Total</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>0</b>
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	2	0	0	0	0
<b>Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
October	0	0	0	0	0	0
November	0	0	0	0	0	0
December	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<i>Annual total</i>	<b>7</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>0</b>



# Complaints Description

Complaint Date	Complaint Description
2019/02/21	The noise from the Port today and over the weekend has been so hectic.
2019/02/21	A lady wiped down her table which is outside and under cover every second day, the cloth was very dirty.
2019/02/21	I saw two vehicles covered in iron ore. I'm assuming the people from the wash bay might have been on leave that day?
2019/02/21	I just drove past red stained vehicle.
2019/02/21	The ship Excel was loading iron ore and the ship loader was emitting vast amounts of red dust as it was loading. The dust cloud was over the ship and blowing towards the land for a number of hours.
2019/02/21	dust bellowing from a ship being loaded on the 26 <sup>th</sup> at around 16H00.
2019/03/12	We painted this little wooden chapel of ours white in September last year. Please take a look at the pictures taken today of how pink it is again.



## Next Meeting

- ~~22 May 2019~~
  - 25 July 2019
  - 15 September 2019
  - 5 December 2019
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END

