

Directorate: Environmental Law Enforcement Sub-Directorate: Environmental Law Enforcement (Region 1)

REFERENCE: 14/1/1/E1/1/2/3/0627/19 **ENQUIRIES:** Grant Dyers/ Dale Wakefield

> BY EMAIL: Lungelo.Mbandazayo@capetown.gov.za Michael.Webster@capetown.gov.za

Municipal Manager City of Cape Town Municipality Private Bag X9181 Cape Town 8000

Attention: Mr Michael Webster (Executive Director: Water and Waste)

Dear Sir

POLLUTION OF THE DIEP RIVER CATCHMENT AND MILNERTON LAGOON, MILNERTON

- 1. I refer to the following:
 - 1.1. the City of Cape Town Municipality's ("the City") monthly reports submitted to the Department;
 - 1.2. the Department's joint compliance monitoring inspections with the City in respect of the City's monthly reports;
 - 1.3. the modified Directive issued by the MEC, Mr A. Bredell, on 22 January 2021 (see Compliance Audit Report attached hereto as "Annexure A");

- 1.4. the Department's recent compliance inspection dated 27 July 2021; and
- 1.5. the meeting between the Department and the City dated 28, July 2021.
- During the Department's audit exercise it was confirmed that of the 16 (sixteen) conditions, as stipulated in the modified Directive (dated 22 January 2021), the City is partially compliant with 8 (eight) conditions, compliant with 6 (six) conditions, and non-compliant with 2 (two) of the conditions of the aforesaid Directive.
- 3. As such, the City is requested to provide the Department with the following:

3.1. In terms of the modified Directive:

- 3.1.1. The City's audit report and findings on all applicable pump stations and the associated risk ratings to determine the priority upgrades (refer to Annexure A: Item no. 7, Condition 1.5.6);
- 3.1.2. A detailed timeline and phases (including the progress on the procurement process) of the following project upgrades:
 - the Potsdam Wastewater Treatment Works;
 - the Koeberg Road pump-station;
 - the Montague Gardens Bulk Sewer Gravity Reticulation Network and screening system; and
 - all other problematic infrastructure and pump stations (refer to Annexure A: item 3, Condition 5.1.3 and Item 6, Condition 5.1.5);
- 3.1.3 A further update specifically on tender 131Q/2020/21 and RFQ, SK12100149 detailing the tender contract duration and the work to be done/conditions of these tenders (Annexure A: item 3, Condition 5.1.3);
- 3.1.4 Reference is made to Annexure A: Item 10, Condition 5.1. In the City's recent monthly report (dated 2 July 2021), the City indicted that the correct media for testing *E.coli* is not in place. Kindly provide an update

on when the City expects to receive the correct media for testing *E.coli*, and further advise the Department how *E.coli* is currently being tested as the City has shown the Potsdam WWTW effluent results for *E.coli* in the recent monthly report (dated 2 July 2021).

- 3.1.5 An update on when an additional sampling point will be added at the final effluent discharge point, at the point of entry into the Diep River (refer to Annexure A: Item 10, Condition 5.1);
- 3.1.6 An update on the procurement process and installation of the donated nets at strategic stormwater outlets to trap all the general waste from flowing into the Diep River and Milnerton Lagoon (refer to Annexure A: Item 13, Condition 5.6.);
- 3.1.7 An update on the various measures proposed and/or already implemented to increase community engagements with affected groups along the Diep River Catchment (refer to Annexure A: Item 16, Conditon 5.9); and
- 3.1.8 A further update on each condition within Annexure A where partial and non-compliance have been identified.

3.2. In terms of the monthly reports submitted by the City and the quarterly engagements between the Department and the City:

3.2.1. An update on the stormwater inflow into Potsdam and the investigation into possible bioremediation alternatives as discussed in the engagement between the Department and the City, on 01 June 2021;

- 3.2.2. Provide sewage and storm water reticulation network maps of Milnerton and surrounding suburbs which impacts on the Diep River Catchment; and
- 3.2.3. A detailed update illustrating the investigation into external sources of pollution adding to the pollution of the Diep River which should include photographs and dates of investigation (i.e. investigate all areas potentially polluting the Diep River, within the boundaries of the City);
- 3.2.4. A detailed update illustrating the investigation into the sporadic pollution in Montague Gardens as indicated in Paragraph 2 of the City's monthly report (dated 2 July 2021).
- 3.2.5. An update of the removal of the settled sediment from the weir at the Theo Marais Canal as indicated in Paragraph 2 of the City's monthly report (dated 2 July 2021).
- 3.2.6. Provide information on the measures that have been undertaken regarding the illegal sewage connections to stormwater pipes as indicated in Paragraph 4 of the City's monthly report (dated 2 July 2021).
- 3.2.7. According to Paragraph 5 of the City's monthly report (dated 2 July 2021), a clean-up was done on 16 June 2021, as there was a sewage surcharge in Joe Slovo, which was contributing to the overland flow of sewage. However, during the Department's compliance inspection (dated, 18 June 2021) of the area and noted pools of sewage and visible heaps of solid waste situated along the storm water canals in Freedom Drive. Please indicate what measures are in place to monitor the clean-up teams and to ensure that clean-up of these areas is effective.

- 3.2.8. A detailed report of the City's survey of the pipelines to gain clarity on the connections between the sewerage and stormwater systems in the vicinity of the Phoenix Way Pump Station as indicted in Paragraph 5 of the City's monthly report (dated 2 July 2021).
- 3.2.9. An update on Dunoon and the diversion of the sewerage from the stormwater system into the sewage system as indicated in Paragraph 6 of the City's monthly report (dated 2 July 2021).
- 3.2.10. An update into the investigation of the recent complaints received from Mrs Marx, dated 22 July 2021 and 25 July 2021.
- 3.2.11. An update on the repair of the damaged litter grid at the Erica Road outlet as shown in Paragraph 5 of the City's monthly report (dated 2 July 2021). The said litter grid has been damaged for months and has proven to be ineffective in preventing general waste and sewage solids from entering the Milnerton Lagoon.
- 3.2.12. An updated contingency plan to address the current pollution being experienced (particularly at the Erica Road outlet), until the long-term upgrades have taken place. Currently, the short- and medium-term contingency plans in place for the Erica Road outlet are not adequate in preventing the pollution from entering the Diep River Catchment.

3.3. In terms of the reedbeds at Potsdam WWTWs:

3.3.1. Advise when the reedbed outlet has been opened;

- 3.3.2. Provide a schematic of where the channel that was cut in the reed bed to divert the stormwater directly to the Theo Marais Canal at reedbed 2; and
- 3.3.3. Provide the Water Quality results, from the sampling, as mentioned during the meeting, dated 28 July 2021, taken during the times of discharge at the reedbeds.

3.4. Observations based on the compliance inspection conducted on 27 July 2021 at the Potsdam WWTWs (in respect of the proposed remedial measures for long-pond):

- 3.4.1. in the City's monthly report, (dated 2 July 2021), it states that once the cleaning of the long pond commences, effluent will be discharged directly from pond 5 and the discharge point after the UV disinfection (i.e. there will be two discharge points and discharges from long pond will cease). Kindly advise where the disinfection for the discharges from pond 5 will take place and where will the effluent samples for this discharge point is taken;
- 3.4.2. adjacent to the long-pond is a smaller pond, with is connected to the reedbeds, it was observed during the compliance inspection (dated 27 July 2021) that there were visible evidence of sludge present in the pond. Kindly advise whether this pond will also be cleaned as part of the long-pond cleaning; and
- 3.4.3. there was visible scum in the UV disinfection contact chambers, which indicates that the plant is not operating effectively. However, the effluent in ponds 5 7 visibly appears to be of a better quality. Is the current process still in place in by-passing the ponds which was recently cleaned and when will these ponds come online again?

- 4 In light of the above, you are hereby requested to submit to the Department, within 21 (twenty-one) calendar days of receipt of this letter, a detailed response to the requests outlined in paragraphs 3.1. 3.4 above, in order to provide clarity and address the concerns raised following the compliance audit conducted in respect of the modified Directive and the City's monthly's reports.
- 5 If you should be unclear about any aspect of this communication, or should you wish to consult regarding its terms, please contact Mr Grant Dyers at the Directorate: Environmental Law Enforcement on (021) 483 8102 or <u>Grant.Dyers@westerncape.gov.za</u>
- 6 Your cooperation in this regard is appreciated.

Achmad Bassier Director: Environmental Law Enforcement Date: 02/08/2021

CC:

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ANNEXURE A

DIRECTIVE COMPLIANCE AUDIT

Case: Pollution of the Diep River Estuary and Milnerton Lagoon

Reference Number: 14/1/1/E1/1/2/3/0627/19

Case officer: Grant Dyers

Assisting Case Officer: Derryn Lendrum

Date of Directive: 21/09/2020

Date of Modified Directive: 22/01/2021

Special Notes:

1. Colum labeled "Directive Conditions"

- 1.1. Wording highlighted in **red** is the wording of the original Directive dated 21/09/2020.
- 1.2. Wording highlighted in **black** is the additional points/amendments added in the modified Directive date 22/01/2021.

2. Colum labeled "Comments"

- 2.1. Notes highlighted in green are thoughts on the specific point
- 2.2. Notes highlighted in orange are new amended points.

No.	Directive Condition	Compliant/ Non-	Comments
		compliant	
1.	5.1.1. Ref: Diep 111 (Item no. 801 -	PARTIALLY	(See report from City dated
	803) – expedite the investigation of	COMPLIANT	23 March 2021)
	illicit discharge into the stormwater		
	drainage systems and surrounding		Item 801: Investigate &
	water courses, and submit a report of		regulate illicit discharges
	the City's findings and proposed		into the stormwater
	actions to prevent ongoing pollution		drainage systems, rivers
	to the Department within 60 (sixty)		and water bodies. The
	calendar days of receipt of this		various activities regarding
	Directive;		the investigation and
			regulation of illicit
			discharges into the Lower
			Diep river have been
			documented and
			submitted to DEA&DP
			(Annexure A)
			Item 802: Investigate &
			regulate racehorse facilities
			at Milnerton Racehorse
			Stables. This investigation
			was concluded in 2020 and
			the report and
			photographic evidence
			were submitted to DEA&DP
			(Annexures B1 and B2).
			Item 803: Montague
			Gardens industrial illicit
			discharge. The incursion
			with DWS was undertaken

			on 10 & 11 November 2020 (Annexure A). There are however notable sources of pollution that has not yet been investigated. The City needs to provide an updated report on the investigations and the actions that were taking to address the pollution sources found.
2.	5.1.2. Ref: Diep 113 – submit the revised pollution incident protocols and contingency plans for the Facility, Koeberg and Sanddrift Pump Stations to the Department's Directorate: Pollution and Chemical Management ("D: P&CM") for review and comment, within 30 (thirty) calendar days of receipt of this Directive, to address future incidents which may occur while the upgrade of the aforementioned facilities are in progress;	PARTIALLY COMPLIANT	Incidence protocols and contingency plans submitted in February 2021 Over-arching document & appendices are completed. Work in progress on specific practical implementation protocol to physically deal with spillages. Pollution incident protocols to be revised/ re-drafted covering (i) sewer gravity system, (ii) sewer pump stations, & (iii) WWTW (review) to be submitted by end of October 2021. Currently there are contingency plans in place, however they are not adequate in addressing the

			continuation of pollution to
			the Diep River catchment.
3.	5.1.3. Ref: Diep 114 (Item no. 105 –	PARTIALLY-	Potsdam WWTW upgrade –
	107) – Update to enable the	COMPLIANT	in design and tender stage
	expediting of the upgrade of the		The Potsdam WWTW will be
	Facility, which must be completed by		increased from 47MI to
	31 August 2025, in order to		100MI/d upon completion
	prevent/minimise further pollution of		of the upgrade works in
	the lower Diep River/ Milnerton		2025. The membrane
	Lagoon; The DEA&DP must be kept		bioreactor (MBR) will be
	informed of the progress of the		installed with sufficient.
	implementation of this measure in the		Report from D:P&CM dated
	monthly reports that are bring		20 April 2021 indicates that
	submitted by the City.		plans for Potsdam WWTW
			upgrade have been put
			forth and the area for the
			addition to the plant has
			already been designed on
			site. Mr Nell stated that he
			will be drafting a more
			detailed timeframe for this
			upgrade, which will be sent
			to the Department. Mr Nell
			indicated that the City
			would endeavor to comply
			with the timeframe set in
			the Directive.
			The WQIP TAP states that
			civil/mechanical and
			electrical works were to
			start in Jan 2021 – the city
			has not made mention of
			any progress in this regard

			but from the Department's inspections this has clearly not started. The TAP also states that the WW dept was to provide a summary of the project programmes for each of the project phases. The City is not fully compliant in this respect as they have not provided the Department with enough
			details and seem to be behind project schedule. Need to request the detailed timeline Richard Nell mentioned with the project programmes from the City?
4.	5.1.4. Ref: Diep 116 (Item 301) – Update to enable the expediting of the upgrade of the Montague Gardens Bulk Sewer Gravity Reticulation Network and screening system by 30 June 2025 , in order to prevent sewer network blockages and spillages into the Theo Maria Canal; The City must indicate to the DEA&DP the measures to be undertaken to reduce the blockages as a result of foreign objects entering the sewer reticulation network within	PARTIALLY COMPLIANT	The City employs 17 operational teams in its Region 3 reticulation area which covers Milnerton, Kraaifontein & Brackenfell areas and a sewer reticulation pipe network of 2 603 km. The City produces heat maps from its C3 sewer spill notification system which are used to identify:

60 Calendar days of this Appeal	Areas of the network
Directive.	requiring more frequent or
	targeted cleaning.
	Pipes requiring capacity
	investigation and possible
	replacement.
	Areas where awareness
	interventions such as the
	City's "Bin it, don't block"
	campaign door to door
	education.
	In terms of the bulk sewer
	line, a consultant has been
	appointed and Section 33
	process underway with a
	targeted completion
	January 2021
	Koeberg road pump station
	refurbishment – some of
	which has been completed
	(Brian Thomson) and other
	planned upgrade (Acric
	Smit) report required.
	Budget available in
	2021/2022. Consultants
	tender 293C cancelled and
	planned refurbishment
	design to start after
	September 2021 when the
	replacement tender is
	awarded.

			The operational teams and heat maps deal with the blockages and spillages but do not prevent and/or reduce them. It's great that the heat maps can identify areas for more frequent and targeted cleaning etc. However, the Modified Directive states that measures to be undertaken must be submitted within 60 days but there is no timeline for implementation besides the larger timeline for the upgrade of the bulk sewer by 30 June 2025.
5.	 5.1.5. Ref: Diep 117 - Update to enable the expediting of the upgrade of the Du Noon and Doornbach Sewer Gravity Reticulation Network 	COMPLIANT (in terms of time frames but not directly spoken	The short and medium-term contingency plans and preventative measure in place are not adequate in preventing continued pollution, until the upgrade takes place. Electric power supply source investigation completed. City programme dates: 1
	(which includes plan, design, and construction of stormwater to sewer diversion/s) by 31 December 2023 , in order to prevent sewer network blockages and spillages into the	to in report)	July 2020 – 1 June 2023 Designs completed by CSRM and approved by Relic – pending budget & project implementation.

	lower Diep River via the stormwater drainage system and the two outflow channels; The DEA&DP must be kept informed of the progress of the implementation of this measure in the monthly reports that are bring		No specific mention of this is 23 March 2021 report, however, still within the overall timeframe of 31 December 2023. Briefly
	submitted by the City.		address in the Lower Diep River: Transversal action Plan 01 April 2021).
6.	5.1.5. Ref: Diep 120 & 122 – Update to	PARTIALLY	(Compliant as the City has
	enable the expediting of the	COMPLIANT	until November 2021 to
	upgrade of the Koeberg Road		implement measures of
	Pump Station (which includes		strategic outlets to trap all
	plan, design, and construction		the general waste from
	of stormwater to sewer		flowing into the Diep River
	diversion/s) to be completed		and Milnerton Lagoon the
	by 31 December 2021 , in order		measures. However non-
	to prevent/minimise pollution		compliant in they have not
	into the lower Diep River/		provided an interim
	Milnerton Lagoon via the		response plan to deal with
	stormwater drainage system		the trapping and clean-up
	inlets and underground pipes;		of general waste at storm-
	This measure falls under the		water outlets flowing into
	Montague Gardens Bulk Sewer		the Diep River & Milnerton
	Upgrade project to be		Lagoon. Nets procured but
	completed between 1 July		no plan in place for the
	2022 and 1 June 2024.		nets and no interim
	Progress reports on the		response plan has been
	implementation of this measure must		provided to deal with the
	be included in the monthly reports		trapping and clean-up
	submitted to the DEA&DP.		while the planning and
			identifying of outlets is
	Implement measures of strategic		underway) –
	outlets to trap all the general waste		

from flowing into the Diep River and Milnerton Lagoon (e.g nets at the mouths of stormwater outlets to capture the general waste, as implemented in the Soet River Catchment), **by November 2021.**

The City must however provide an interim response plan to deal with the trapping and clean-up of general waste at storm-water outlets flowing into the Diep River & Milnerton Lagoon, within 60 calendar days of this Appeal Directive, while the plan is under development and submit it to the DEA&DP.

Progress reports on the implementation of the interim measures must be included in the monthly reports.

The City procured netting, which has been sponsored by a private fishing company. Planning and identifying outlets are underway and will be reported in the City's monthly reports to the Department.

7.	5.1.6. Ref: Diep 121 – Submit the	PARTIALLY	The report titled "Pump
	sewer pump station audit report to	COMPLIANT	Station Awareness October
	the Department's Directorate: P&CM		2020 (Potsdam
	for review and comment, within 60		Mekbosstrand and
	(sixty) calendar days of receipt of this		Wesfleur), which covers the
	Directive;		City's sewer pump stations
			in the Diep River
			Catchment was provided
			to DEA&DP in the 23 March
			2021 report (Annexure C).
			The City noted in their
			report that "this report
			covering the pump station
			assessment was to gather
			data and assess conditions
			by an independent
			consultant; it does not
			produce a remedial plan of
			action and budget
			schedule. The findings are
			being used to update the
			pump station
			refurbishment" However,
			the clause/condition only
			requests an audit report
			and not a remedial plan of
			action.
			Mr Nell stated that he will
			be drafting a more
			detailed report.
			Mr Nell also stated that he
			will be compiling a risk

			rating based on the audit
			findings to determine the
			priority upgrades.
			phonry opgrades.
			Request an update on this
			on the above-mentioned
			from the City?
			nom me chyę
8.	5.1.7. Action: Increase frequency of	PARTIALLY	(compliant in submitting on
	refuse collection and area cleaning -	COMPLIANT	time but unclear whether
	submit a plan to the Department's		this report included the
	Directorates Waste Management and		increased frequency of
	D: P&CM for approval, within 30		refuse collection and area
	(thirty) calendar days of receipt of this		cleaning or solid waste
	Directive, to address the littering and		management measures in
	solid waste pollution occurring		general)
	through wind dispersion, illegal		
	dumping and within the stormwater		IMS catch pit cleaning
	drainage systems (including the lack		programme/winter
	of proper waste collection services for		readiness programme in
	"back yard dwellings") within Du		place –Killarney Depot
	Noon, Doornbach and Joe Slovo Park.		cleans the river/canal

	The plan must include clear action		banks on a bi-monthly
	deliverables, proposed budgets and		basis, but it is very costly.
	adequate timeframes.		
			Twice/monthly frequency
			cleaning the Bayside canal
			banks in terms of litter and
			solid waste
			30110 Waste
			In February 2021 solid waste
			management measures
			that are being
			implemented were
			submitted to DEA&DP for
			nets procured but no plan
			in place for the nets and no
			interim response plan has
			been provided to deal with
			the trapping and clean-up
			while the planning and
			identifying of outlets is
			underway.
			There are still numerous
			complaints being received
			regarding dumping,
			frequency of refuse
			removal, blockages etc.
			The current plans in place
			are not adequate enough.
9.	5.2. Conduct a thorough clean-up	COMPLIANT	Report submitted to
	of the sludge within the Diep River at		DEA&DP on 05 February
	the Final Effluent discharge point of		2021.
			2021.
	the Facility, within 14 (fourteen)		

	calendar days of receipt of this		
	Directive;		
10.		NON- COMPLIANT	The City indicated that they do not have enough media. Discrepancies between the two discharging points. This was requested prior to the new discharge point being installed – when the official discharge point was
			at the sluice gates of the long pond, the City were conducting samples at the chlorination point prior to the effluent being discharged into the long pond. Currently the City is sampling just before the effluent is discharged into the Diep River (at the contact chambers) at the
			new discharge point. The DWS still must approve the amendments to the WUL, which should include the co-ordinates for this new discharge point (Inspection report 10 Nov 2020) Clarity is needed from the DWS as to where the official sampling points should be

			as per the WUL and
			subsequent agreements
			between the City and the
			DWS.
11.	5.4. Effectively seal-off all historical	PARTIALLY-	There is only temporarily
	outlets and underground pipes	COMPLIANT	sealing of the historical
	leading from the Facility (including		outlets and reedbeds.
	the maturation ponds) into the Diep		
	River, within 30 (thirty) calendar days		The outlets from the
	of receipt of this Directive, and		reedbeds have been
	provide proof to the Department		opened to allow water to
	within 7 (seven) calendar days after		flow from the reedbeds into
	completion;		the Theo Marais Canal. This
			was observed during the
			inspection dated
			27/07/2021.
			The City has advised that
			they have obtained
			temporarily approval from
			the DWS.
12.	5.5. The standby generators must	COMPLAINT	Completed –
12.	immediately come online in the		completed
	event of a power outage, and not		
	have $15 - 30$ mins delays, and provide		
	proof to the Department within 7		
	(seven) calendar days after		
	completion;		
13.	5.6. Implement measures at	NON-	Nets procured but no plan
	strategic stormwater outlets to trap all	COMPLIANT	in place for the nets and no
	the general waste from flowing into		interim response plan has
	the Diep River and Milnerton Lagoon		been provided to deal with
	(e.g. nets at the mouths of stormwater		the trapping and clean-up

	outlets to capture the general waste,		while the planning and
	as implemented in the Soet River		identifying of outlets is
	Catchment), within 30 (thirty)		underway.
	calendar days of receipt of this		
	Directive, and provide proof to the		According to Annexure A
	Department within 7 (seven) calendar		of the June 2021 report,
	days after completion. These		nets have been donated,
	stormwater outlets must be cleaned		however there is no
	regularly in order to prevent		mention of their
	blockages;		implementation and
			whether enough nets have
			been donated or if more
			need to be procured?
			Therefore, still non-
			compliant
			compilant
14.	5.7. Submit an Estuary	COMPLAINT	Estuary Maintenance
14.	Management Plan for the Milnerton		Management plan was
	Lagoon, which must address		submitted and approved
	improving the estuary water quality,		by D: DM. Estuary
	marine and coastal ecosystem		Management & monitoring
	functions and the overall		proposal submitted to
	management of the Milnerton		DEA&DP on 03 March 2021.
	Lagoon Estuary, to this Department		The interim changes have
	for comment and the DEFF for		been highlighted in the
	approval, within 60 (sixty) calender		communication dated 5
	days of receipt of this Directive;		March 2021, but the actual
			document has been
			requested again.
			The above EMP has been
			sent to MS Marlene Laros
			and signed, however Ms
			Laros indicated that the

			EMP must include the entire estuarine functional zone as delineated by the NBA (2018) The signed report from DEA&DP's coastal management unit was sent to the City on 28/06/2021
			There currently is an EMP in place however the City has proposed to update the EMP to include some key elements for pollution management. DEA&DPs coastal management has responded on the proposed update of the EMP. The City will further correspond with DEA&DPs coastal management regarding the processes to be followed and what must be included in the EMP.
15.	5.8. Continue to submit to the Department the monthly update reports on the implementation of the Action Plan as indicated in paragraph 5.1., above, which must include the progress of actions outlined in paragraphs 5.1.3 – 5.1.6., 5.3., and 5.5. above, to this Department; and	COMPLIANT	

16	5.9. Continue to conduct	COMPLIANT	
	meetings or engagements with		
	affected groups to communicate		
	and inform the communities along		
	the Diep River Catchment of the		
	City's short-, medium and long-term		
	actions contained in the Action Plan,		
	and provide them with copies of the		
	update reports.		