

May 2024

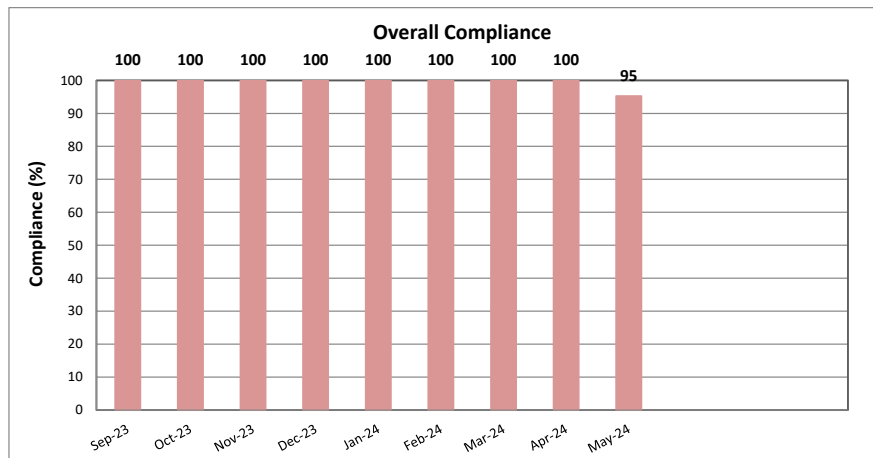
East London Cambridge Effluent Plant

Uitenhage

Site Information

Date of Sampling	02/05/2024
Sampling Point Identification	-32.967250 27.899750
Depot	East London Cambridge Effluent Plant
Region	Uitenhage
Treatment Technology	Not available/Unknown
Design Information	Not available/Unknown
Design/Current Capacity	Not available/Unknown
Flow Meter	None
Responsible Authority	Buffalo City Metropolitan Municipality
Discharge Point	Municipal sewer

Compliance History



Findings

Site Visit Photo

Overall Compliance	95%		
Non-compliant Parameters	Boron		
Plant Operational	Yes	No	n/a
Maintenance	Yes	No	n/a
Site Neatness	Yes	No	Spillage
Access	Easy	Difficult	Risk

Recommendation(s)

Vegetation around the plant and belts not working.



Parameter	Temperature		pH Value		EC		COD		TSS		Chloride		Sulphate		Soap,Oil&Grease		Phosphate		Ammonia	
Month	44°C		6.0 - 12.0		400 mS/m		mg/l		1500 mg/l		750 mg/l		500 mg/l		400 mg/l		25 mg/l		mg/l	
September 2023	19.7	C	6.8	C	85	C	352		88	C	73	C	31	C	0	C	2	C	0	
October 2023	22.2	C	7.2	C	74	C	214		64	C	69	C	29	C	74	C	2	C	0	
November 2023	22.7	C	7.5	C	50	C	36		17	C	43	C	32	C	0	C	0	C	0	
December 2023	24.8	C	7.1	C	93	C	622		37	C	111	C	37	C	0	C	0	C	0	
January 2024	27.1	C	6.7	C	31	C	20		10	C	18	C	12	C	0	C	0	C	0	
February 2024	27.1	C	7.3	C	48	C	143		28	C	64	C	31	C	12	C	1	C	0	
March 2024	27.8	C	6.8	C	28	C	68		48	C	42	C	22	C	2	C	1	C	0	
April 2024	19.9	C	7.3	C	37	C	121		12	C	46	C	33	C	4	C	1	C	0	
May 2024	20.2	C	7.2	C	57	C	421		217	C	50	C	26	C	0	C	3	C	0	
Parameter	Arsenic		Boron		Cadmium		Chromium		Cobalt		Copper		Iron		Lead		Manganese		Mercury	
Month	5 mg/l		5 mg/l		5 mg/l		20 mg/l		mg/l		20 mg/l		20 mg/l		5 mg/l		mg/l		1 mg/l	
September 2023	0.0	C	1.1	C	0.0	C	0.0	C	0.0		0.1	C	1.5	C	0.0	C	0.2		0.0	C
October 2023	0.0	C	0.4	C	0.0	C	0.0	C	0.0		0.0	C	0.8	C	0.0	C	0.2		0.0	C
November 2023	0.0	C	0.2	C	0.0	C	0.0	C	0.0		0.0	C	0.2	C	0.0	C	0.1		0.0	C
December 2023	0.0	C	0.3	C	0.0	C	0.0	C	0.0		0.0	C	1.5	C	0.0	C	0.3		0.0	C
January 2024	0.0	C	0.1	C	0.0	C	0.0	C	0.0		0.0	C	0.1	C	0.0	C	0.0		0.0	C
February 2024	0.0	C	0.4	C	0.0	C	0.0	C	0.0		0.0	C	1.5	C	0.0	C	0.3		0.0	C
March 2024	0.0	C	0.0	C	0.0	C	0.0	C	0.0		0.0	C	1.1	C	0.0	C	0.0		0.0	C
April 2024	0.0	C	0.3	C	0.0	C	0.0	C	0.0		0.0	C	0.9	C	0.0	C	0.2		0.0	C
May 2024	0.0	C	12.0	N	0.0	C	0.0	C	0.0		0.0	C	1.7	C	0.0	C	0.2		0.0	C

C

= Compliant

N

= Non-compliant

NS

= No Sample Received

NA

= Unable to Analyse

Parameter	Molybdenum		Nickel		Selenium		Silver		Sodium		Titanium		Zinc	
Month	5 mg/l		20 mg/l		5 mg/l		mg/l		500 mg/l		mg/l		20 mg/l	
September 2023	0.0	C	0.0	C	0.0	C	0.0		142	C	0.0		0.2	C
October 2023	0.0	C	0.0	C	0.0	C	0.0		111	C	0.0		0.1	C
November 2023	0.0	C	0.0	C	0.0	C	0.0		84.0	C	0.0		0.1	C
December 2023	0.0	C	0.0	C	0.0	C	0.0		117	C	0.0		0.4	C
January 2024	0.0	C	0.0	C	0.0	C	0.0		37.0	C	0.0		0.2	C
February 2024	0.0	C	0.0	C	0.0	C	0.0		109	C	0.0		0.1	C
March 2024	0.0	C	0.0	C	0.0	C	0.0		61.0	C	0.0		0.0	C
April 2024	0.0	C	0.0	C	0.0	C	0.0		69.0	C	0.0		0.1	C
May 2024	0.0	C	0.0	C	0.0	C	0.0		165	C	0.0		0.8	C

C = Compliant

N = Non-compliant

NS = No Sample Received

NA = Unable to Analyse

## CERTIFICATE OF ANALYSES

CONFIDENTIAL

Identification	UTH East London Cambridge Effluent Plant	Report/Lab number	0285/24
Customer	Transnet Engineering	Date Sampled	02/05/2024
Contact Person	Mmalaka Phejane	Date Received	06/05/2024
Contact number	012 391 1320	Date Started-Completed In-house	06-14/05/2024
Email Address	<a href="mailto:Mmalaka.Phejane@transnet.net">Mmalaka.Phejane@transnet.net</a>	Sub Completed	20/05/2024
Physical Address	160 Lynette Street, Kilner Park, Pretoria	Date of Report	21/05/2024

A N S	Determinants	Unit	Method	Sample ID
				0285-01
N	Temperature	°C	-	20.2
A	pH Value at 25°C	-	LA001	7.2
A	Conductivity	mS/m	LA003	57
A	Chemical Oxygen Demand	mg/l	LA013	421
N	Total Suspended Solids	mg/l	LA006	217
A	Chloride - Cl	mg/l	LA029	50
A	Sulphate - SO <sub>4</sub>	mg/l	LA030	26
S	Oil & Grease	mg/l	-	<0.100
A	Ortho-Phosphate - P	mg/l	LA028	3.3
A	Ammonia - NH <sub>3</sub> as N	mg/l	LA033	<0.5
S	Arsenic - As	mg/l	-	0.003
S	Boron - B	mg/l	-	12
S	Cadmium - Cd	mg/l	-	0.001
S	Chromium - Cr	mg/l	-	0.035
S	Cobalt - Co	mg/l	-	<0.025
S	Copper - Cu	mg/l	-	0.024
S	Iron - Fe	mg/l	-	1.74
S	Lead - Pb	mg/l	-	0.021
S	Manganese - Mn	mg/l	-	0.192
S	Mercury - Hg	mg/l	-	<0.001
S	Molybdenum - Mo	mg/l	-	<0.025
S	Nickel - Ni	mg/l	-	<0.025

NA - No Analysis done due to incompatible sample matrix; A – SANAS Accredited Method, N – Method Not Accredited – Results marked "N" in this report are not included in the SANAS Schedule of Accreditation for this laboratory; S – indicates Subcontracted Test - Results marked "Subcontracted Test" in this report are not included in the SANAS Schedule of Accreditation for this laboratory. Results only apply to the samples as received and tested.

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*R Lax*  
**Technical Signatory**

## CERTIFICATE OF ANALYSES

CONFIDENTIAL

A N S	Determinants	Unit	Method	Sample ID
				0285-01
S	Selenium - Se	mg/l	-	0.001
S	Silver - Ag	mg/l	-	<0.025
S	Sodium - Na	mg/l	-	165
S	Titanium - Ti	mg/l	-	<0.03
S	Zinc - Zn	mg/l	-	0.822
End of Certificate				

Comments (sample damages/leakages, also state if this report replaces any other report (ammended) :

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*R Lax*  
**Technical Signatory**