Effluent and Borehole Water Test Results 2026.07

Sample	Test	Units	Result
1: Size trough drain 28.07.2026 DS REF 019341/26	3 Chemical Oxygen Demand (Total) mg O_2/ℓ	mg O_2/ℓ	62597
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	995
	2A Electrical Conductivity at 25°C	mS/m	31
	1 pH at 25°C	pH Units	5.1
	124 Settleable Solids*	mℓ/ℓ	<1
	Starch Content*		Absent
	5 Suspended Solids at 105°C		17120

Sample	Test	Units	Result
2: Scour desize bleach 1st drain 28.07.2026 NS REF 019342/26	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	7155
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	387
	2A Electrical Conductivity at 25°C	mS/m	2017
	1 pH at 25°C	pH Units	12.7
	124 Settleable Solids*	mℓ/ℓ	NR
	Starch Content*		Absent
	5 Suspended Solids at 105°C	mg/ℓ	NR

Sample	Test	Units	Result
3: DARK VAT 1ST DRAIN THIES 29.07.2026 REF 019344/26	233-2 Dissolved Calcium	mg Ca/ℓ	15
	233-2 Dissolved Potassium	mg K/ℓ	16.1
	233-2 Dissolved Magnesium	mg Mg/ℓ	8.48
	233-2 Dissolved Sodium	mg Na/ℓ	10131
	234-1 Total Iron	µg Fe/ℓ	2852
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	8341
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	725
	40A Colour (True)	mg Pt-Co/ℓ	8600
	40A Colour (Apparent)	mg Pt-Co/ℓ	20900
	Electrical Conductivity*	mS/m	3036
	200 pH @ 25°C*	pH units	12.1
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	320

Sample	Test	Units	Result
4: VAT DRAIN ANTIMICROBIAL & Si SOFTENER BATH 29.07.2026 REF 019354/26	234-1 Dissolved Silver	µg Ag/ℓ	<5
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	183
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	38
	2A Electrical Conductivity at 25°C	mS/m	35
	1 pH at 25°C	pH units	6.1
	233-1 Dissolved Silicon*	mg Si/ℓ	3.33

Sample	Test	Units	Result
5: MED DISPERSE DYE 1ST DRAIN THIES 4 29.07.2026 REF 019345/26	233-2 Dissolved Calcium	mg Ca/ℓ	13.7
	233-2 Dissolved Potassium	mg K/ℓ	18
	233-2 Dissolved Magnesium	mg Mg/ℓ	16.3
	233-2 Dissolved Sodium	mg Na/ℓ	134
	234-1 Total Iron	µg Fe/ℓ	532
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	1626
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	89
	40A Colour (True)	mg Pt-Co/ℓ	123
	40A Colour (Apparent)	mg Pt-Co/ℓ	906
	2A Electrical Conductivity at 25°C	mS/m	61
	1 pH at 25°C	pH units	4
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	<18

Sample	Test	Units	Result
6: DARK REACTIVE 1ST DRAIN DYEBATH THIES 1 29.07.2026 019346/26	233-2 Dissolved Calcium	mg Ca/ℓ	0.69
	233-2 Dissolved Potassium	mg K/ℓ	285
	233-2 Dissolved Magnesium	mg Mg/ℓ	8.62
	233-2 Dissolved Sodium	mg Na/ℓ	466
	234-1 Total Iron	µg Fe/ℓ	555
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	2385
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	139
	40A Colour (True)	mg Pt-Co/ℓ	35800
	40A Colour (Apparent)	mg Pt-Co/ℓ	38900
	Electrical Conductivity*	mS/m	4668
	200 pH @ 25°C*	pH units	10.3
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	278

Sample	Test	Units	Result
7: BLEACH OBA 1ST DRAIN OBA BATH THIES 3 29.07.2026 REF 019347/26	233-2 Dissolved Calcium	mg Ca/ℓ	45
	233-2 Dissolved Potassium	mg K/ℓ	574
	233-2 Dissolved Magnesium	mg Mg/ℓ	22
	233-2 Dissolved Sodium	mg Na/ℓ	3611
	234-1 Total Iron	µg Fe/ℓ	292
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	6576
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	169
	40A Colour (True)	mg Pt-Co/ℓ	365
	40A Colour (Apparent)	mg Pt-Co/ℓ	1030
	2A Electrical Conductivity at 25°C	mS/m	2138
	1 pH at 25°C	pH units	12.7
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	76

Sample	Test	Units	Result
8: VAT SUMP AT ETP 14:05 29.07.2026 REF 019349/26	233-2 Dissolved Calcium	mg Ca/ℓ	14.2
	233-2 Dissolved Potassium	mg K/ℓ	194
	233-2 Dissolved Magnesium	mg Mg/ℓ	12.8
	233-2 Dissolved Sodium	mg Na/ℓ	2135
	234-1 Total Iron	µg Fe/ℓ	332
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	3570
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	94
	40A Colour (True)	mg Pt-Co/ℓ	1020
	40A Colour (Apparent)	mg Pt-Co/ℓ	1480
	Electrical Conductivity*	mS/m	800
	200 pH @ 25°C*	pH units	11
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	41

Sample	Test	Units	Result
9: REACTIVE SUMP AT ETP 14:15 29.07.2026 REF 019348/26	233-2 Dissolved Calcium	mg Ca/ℓ	5.64
	233-2 Dissolved Potassium	mg K/ℓ	66
	233-2 Dissolved Magnesium	mg Mg/ℓ	4.56
	233-2 Dissolved Sodium	mg Na/ℓ	1626
	234-1 Total Iron	µg Fe/ℓ	161
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	717
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	190
	40A Colour (True)	mg Pt-Co/ℓ	284
	40A Colour (Apparent)	mg Pt-Co/ℓ	769
	2A Electrical Conductivity at 25°C	mS/m	632
	1 pH at 25°C	pH units	10.1
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	33

Sample	Test	Units	Result
10: BOREHOLE WATER 14:02 29.07.2026 REF 019343/26	233-2 Dissolved Calcium	mg Ca/ℓ	73
	233-2 Dissolved Magnesium	mg Mg/ℓ	18.7
	233-2 Dissolved Sodium	mg Na/ℓ	56
	234-1 Acid Soluble Copper	µg Cu/ℓ	<10
	234-1 Acid Soluble Iron	µg Fe/ℓ	<10
	234-1 Acid Soluble Manganese	µg Mn/ℓ	<5
	234-1 Acid Soluble Lead	µg Pb/ℓ	<10
	10G3 Total Alkalinity	mg $CaCO_3$/ℓ	261
	16G3 Chloride	mg Cl/ℓ	28
	122 Free Chlorine*	mg Cl_2/ℓ	<0.1
	40A Colour (True)	mg Pt-Co/ℓ	<10
	2A Electrical Conductivity at 25°C	mS/m	63
	18G3 Fluoride	mg F/ℓ	0.26
	65Gc3 Nitrate	mg N/ℓ	<0.5
	65Gb3 Nitrite	mg N/ℓ	<0.25
	Calc. Combined Nitrate + Nitrite (sum of Ratios)	mg N/ℓ	<0.32
	4 Turbidity	NTU	0.6
	1 pH at 25°C	pH units	8.2
	67G3 Sulphate	mg SO_4/ℓ	147
	Calc. Total Hardness	mg $CaCO_3$/ℓ	261

Sample	Test	Units	Result
11: OZONE PROCESSED REACTIVE 29.07.2026 019958/26 REF 019958/26	233-2 Dissolved Calcium	mg Ca/ℓ	6.63
	233-2 Dissolved Potassium	mg K/ℓ	82
	233-2 Dissolved Magnesium	mg Mg/ℓ	5.9
	233-2 Dissolved Sodium	mg Na/ℓ	3225
	234-1 Total Iron	µg Fe/ℓ	225
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	716
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	93
	40A Colour (True)	mg Pt-Co/ℓ	122
	40A Colour (Apparent)	mg Pt-Co/ℓ	885
	2A Electrical Conductivity at 25°C	mS/m	1335
	1 pH at 25°C	pH units	9.7
	124 Settleable Solids*	mℓ/ℓ	<1
	Starch Content*		Absent
	5 Suspended Solids at 105°C	mg/ℓ	86

Sample	Test	Units	Result
12: FINAL ETP DISCHARGE 14:25 29.07.2026 019350/26 REF 019350/26	233-2 Dissolved Calcium	mg Ca/ℓ	12.5
	233-2 Dissolved Potassium	mg K/ℓ	149
	233-2 Dissolved Magnesium	mg Mg/ℓ	12.5
	233-2 Dissolved Sodium	mg Na/ℓ	1693
	234-1 Total Iron	µg Fe/ℓ	336
	3 Chemical Oxygen Demand (Total)	mg O_2/ℓ	2126
	156 Biochemical Oxygen Demand (5-Day BOD)*	mg O_2/ℓ	86
	40A Colour (True)	mg Pt-Co/ℓ	885
	40A Colour (Apparent)	mg Pt-Co/ℓ	1350
	Electrical Conductivity*	mS/m	514
	200 pH @ 25°C*	pH units	10.1
	124 Settleable Solids*	mℓ/ℓ	<1
	5 Suspended Solids at 105°C	mg/ℓ	29

1. Size padder drain
2. Scour / desize / bleach first drain
3. Vat dye first drain – dark shade on sample machine
4. Vat dye last drain - sample machine including anti-microbial finish & softener
5. Disperse dye first drain
6. Reactive dye first drain – dark shade
7. Bleach first drain with OBA
8. Vat sump at ETP
9. Reactive sump at ETP
10. Borehole water
11. Ozone treated reactive sump effluent (8 hours)
12. ETP discharge effluent to municipality (sample 2)