TABLE 1: BLAYNEY WASTE DISPOSAL DEPOT - RESULTS OF LABORATORY ANALYSIS
AUGUST 2025 - MARCH 2026 **SURFACE WATER**

				Sample ID	SW1	SW1	SW1	SW1	SW1	SW_A	SW_A	SW_A	SW_A	SW_A	SW_C	SW_C	SW_C	SW_C	SW_D	SW_D
				Sample Date	21/08/2025	9/09/2025	24/11/2025	18/12/2025	4/03/2026	21/08/2025	9/09/2025	24/11/2025	18/12/2025	4/03/2026	21/08/2025	9/09/2025	18/12/2025	4/03/2026	9/09/2025	4/03/2026
Group	**Analyte**	**LOR**	**Units**	**Criteria**	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
Physical Parameters	pH (Lab)	0	No unit	6.5 - 8.5	**7.9**	**8**	**7.9**	**8**	**6.8**	**7.6**	**7.8**	**7.8**	**7.6**	**6.7**	**7.7**	**7.6**	**7.6**	**6.2**	**7.4**	**6.3**
	Electrical Conductivity (Lab)	2	µS/cm	4478	**2600**	**2400**	**1900**	**1900**	**730**	**2000**	**2100**	**2000**	**2000**	**700**	**950**	**730**	**930**	**350**	**400**	**680**
	Biochemical Oxygen Demand (BOD5)	5	mg/L	-	< 5	< 5	< 5	**6**	**7**	< 5	< 5	< 5	< 5	**6**	**13**	**13**	**8**	**8**	< 5	< 5
	Total Suspended Solids	0	mg/L	30	**15**	**35**	**47**	**13**	**43**	**12**	**7**	**14**	**8**	**31**	**150**	**210**	**55**	**14**	**51**	**9**
Alkalinity	Total Alkalinity as CaCO3	5	mg/L	350	**200**	**210**	**120**	**140**	**41**	**240**	**230**	**250**	**270**	**60**	**390**	**280**	**260**	**16**	**31**	**58**
Anions	Chloride	1	mg/L	350	**850**	**740**	**520**	**600**	**170**	**640**	**600**	**510**	**610**	**170**	**110**	**74**	**150**	**52**	**83**	**170**
	Fluoride	0.1	mg/L	1	**0.19**	**0.24**	< 0.1	**0.13**	**0.19**	**0.17**	**0.2**	< 0.1	< 0.1	**0.2**	**0.26**	**0.26**	**0.13**	**0.14**	< 0.1	**0.17**
	Sulfate (SO4)	1	mg/L	1000	**77**	**69**	**66**	**85**	**62**	**100**	**94**	**87**	**100**	**41**	**7.1**	**3.7**	**18**	**43**	**9.2**	**36**
Cations	Calcium (Ca)	0.1	mg/L	1000	**140**	**130**	**93**	**110**	**50**	**130**	**130**	**120**	**140**	**43**	**38**	**28**	**26**	**8.4**	**17**	**40**
	Magnesium (Mg)	0.1	mg/L	-	**120**	**130**	**110**	**120**	**33**	**110**	**120**	**130**	**130**	**37**	**38**	**27**	**30**	**6.2**	**15**	**33**
	Potassium (K)	0.2	mg/L	-	**13**	**7.7**	**11**	**8.2**	**7.8**	**16**	**15**	**23**	**9.3**	**9.9**	**15**	**11**	**6.9**	**6.5**	**13**	**12**
	Sodium (Na)	0.1	mg/L	230	**200**	**190**	**120**	**120**	**45**	**110**	**140**	**100**	**110**	**42**	**88**	**75**	**120**	**47**	**21**	**43**
Forms of Carbon	Total Organic Carbon	0.2	mg/L	-	**14**	**12**	**18**	**17**	**19**	**13**	**12**	**15**	**15**	**20**	**36**	**37**	**42**	**19**	**17**	**23**
Nutrients	Ammonia (NH3) as N	0.01	mg/L	-	**0.09**	**0.09**	**0.01**	**0.16**	**0.01**	**0.04**	**0.38**	**0.05**	**0.16**	**0.03**	**4.5**	**0.66**	**0.08**	**0.81**	**0.07**	**0.02**
	Nitrate (NO3) as N	0.005	mg/L	-	< 0.025	**0.11**	< 0.005	< 0.005	**0.48**	**0.46**	**0.18**	< 0.005	< 0.005	**0.46**	< 0.005	< 0.005	< 0.005	**1.5**	**0.088**	**0.055**
Trace Metals	Iron (Fe)	0.005	mg/L	0.2	**0.035**	**0.16**	**0.4**	**0.015**	**0.41**	**0.019**	**0.011**	**0.083**	**0.032**	**0.97**	**0.68**	**2.3**	**0.93**	**0.96**	**0.15**	**0.67**
	Manganese (Mn)	0.001	mg/L	0.2	**0.38**	**0.59**	**0.45**	**0.23**	**0.31**	**0.35**	**0.22**	**0.34**	**0.82**	**0.26**	**7.9**	**2.2**	**1.6**	**0.36**	**0.003**	**0.43**
	Mercury (Hg)	0.0001	mg/L	0.002	-	< 0.0001	-	-	-	-	< 0.0001	-	-	-	-	< 0.0001	-	-	< 0.0001	-
Phenolics	Total Phenols	0.05	mg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
(n:2) Fluorotelomer Sulfonic Acids	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	0.05	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.05	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.05	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroalkyl Carboxylic Acids	Perfluorobutanoic acid (PFBA)	0.1	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Perfluorodecanoic acid (PFDA)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorododecanoic acid (PFDoDA)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoroheptanoic acid (PFHpA)	0.02	µg/L	-	**0.01**	**0.01**	**0.01**	**0.01**	< 0.01	**0.03**	**0.03**	**0.03**	**0.03**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorohexanoic acid (PFHxA)	0.02	µg/L	-	**0.04**	**0.03**	**0.03**	**0.03**	< 0.01	**0.05**	**0.05**	**0.05**	**0.06**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**
	Perfluorononanoic acid (PFNA)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorooctanoic acid (PFOA)	0.01	µg/L	19	**0.02**	**0.02**	**0.02**	**0.01**	< 0.01	**0.04**	**0.04**	**0.05**	**0.04**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**
	Perfluoropentanoic acid (PFPeA)	0.02	µg/L	-	**0.03**	**0.03**	**0.02**	**0.03**	< 0.01	**0.05**	**0.06**	**0.05**	**0.05**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.02**
	Perfluorotetradecanoic acid (PFTeDA)	0.05	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorotridecanoic acid (PFTrDA)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoroundecanoic acid (PFUnDA)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroalkyl Sulfonamides	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	0.05	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	N-Methyl perfluorooctane sulfonamide (MeFOSA)	0.05	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorooctane sulfonamide (FOSA)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	N-Methyl perfluorooctane sulfonamidoethanol (MeFOS	0.05	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE	0.05	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	N-Methyl perfluorooctane sulfonamidoacetic acid (M	0.02	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	N-Ethyl perfluorooctane sulfonamidoacetic acid (Et	0.02	µg/L	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoroalkyl Sulfonic Acids	Perfluorodecane sulfonic acid (PFDS)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoroheptane sulfonic acid (PFHpS)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorohexane sulfonic acid (PFHxS)	0.01	µg/L	-	**0.01**	**0.01**	< 0.01	**0.01**	< 0.01	**0.04**	**0.04**	**0.06**	**0.07**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.02**
	Perfluorooctane sulfonic acid (PFOS)	0.01	µg/L	0.00023	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.02**	**0.03**	**0.03**	**0.03**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoropentane sulfonic acid (PFPeS)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluoropropane sulfonic acid (PFPrS)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorobutane sulfonic acid (PFBS)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.02**	**0.02**	**0.02**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Perfluorononane sulfonic acid (PFNS)	0.02	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2	0.01	µg/L	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
PFAS Sums	Sum of PFOS and PFOA	0.01	µg/L	-	**0.02**	**0.02**	**0.02**	**0.01**	< 0.01	**0.06**	**0.07**	**0.08**	**0.07**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.01**
	Sum of PFHxS and PFOS	0.01	µg/L	-	**0.01**	**0.01**	< 0.01	**0.01**	< 0.01	**0.06**	**0.07**	**0.08**	**0.09**	**0.02**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.02**
	Sum of PFHxS and PFOS and PFOA	0.01	µg/L	-	**0.03**	**0.03**	**0.02**	**0.03**	< 0.01	**0.11**	**0.11**	**0.13**	**0.14**	**0.03**	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.03**

mg/L milligrams per litre
µg/L micrograms per litre
LOR limit of reporting
PS primary sample
Criteria Criteria adopted from *Australian and New Zealand Environment and Conservation Council (ANZECC) Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Australian and New Zealand Guidelines for Fresh and Marine Water Quality* - 'Primary Industries: Water quality for irrigation and general water use', 2000, and/or
Heads of EPAs Australia and New Zealand - National Chemicals Working Group, 'PFAS National Environmental Management Plan' (Version 3.0, 2025) - *'Ecological water quality guideline values (99% protection)*
NSW EPA Environment Protection Licence 6180 'Limit Conditions - L2.4 Water and/or Land Concentration Limits', 2025
within criteria
criteria exceeded