



Your Ref: DP3733BK

Our Ref: 49428/332510236/3512/CBH/VKR/AREA 2 GW & LEACHATE/R253

4<sup>th</sup> June 2025

PPC Team  
Natural Resources Wales  
Rivers House  
Fortran Road  
St Mellons Business Park  
Cardiff  
CF3 0EY

**Attn: Luke Burton**

Dear Luke,

**Re: DP3733BK – Docksway Disposal Site. Latest Area 2 Groundwater and Leachate Quality Monitoring Report, Round 253, March 2025.**

Please find enclosed the results of the groundwater and leachate quality monitoring undertaken at Area 2 of Docksway Disposal Site. Groundwater and leachate monitoring is required quarterly at the site in order to comply with Conditions 3.6.1 and 3.6.2 of the Environmental Permit (DP3733BK). This report includes discussion of results obtained from monitoring during March 2025.

We enclose with this letter report, the laboratory analytical certificates.

#### Field Observations

Details of the field testing of the Area 2 groundwater and leachate samples during Round 253 are presented in Table 1, together with depths to groundwater and leachate.

**Table 1** Field testing Results and Observations – March 2025

Monitoring Point	Dates Monitored	Depth to Groundwater/ Leachate (m)	pH	Electrical Conductivity ( $\mu\text{S}/\text{cm}$ )	Temperature ( $^{\circ}\text{C}$ )	Dissolved Oxygen (%)
GW06_39	Destroyed					
GW07_40	31/03/2025	5.14	7.3	1588	11.8	23.0
GW12_30	31/03/2025	4.40	7.1	2046	11.7	14.6
GW09_31	31/03/2025	6.05	7.1	1167	12.0	18.3
GW03_09	31/03/2025	8.28	7.4	3711	12.6	33.0
GW09_32	Defective					
GW12_33	31/03/2025	8.10	7.6	1245	12.6	13.5
GW06_34	31/03/2025	8.37	7.4	3964	14.0	36.2
GW09_35	31/03/2025	7.88	6.2	9846	14.5	23.0
GW06_36	01/04/2025	8.00	7.5	6124	12.0	18.7
GW06_37	01/04/2025	7.26	7.5	14280	11.5	30.0
GW06_13	01/04/2025	6.07	7.5	10430	11.4	27.7
GW12_38	01/04/2025	5.26	7	2344	11.3	25.8
GW06_14a	01/04/2025	4.17	6.9	4085	12.3	64.0

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Monitoring Point	Dates Monitored	Depth to Groundwater/ Leachate (m)	pH	Electrical Conductivity ( $\mu\text{S}/\text{cm}$ )	Temperature ( $^{\circ}\text{C}$ )	Dissolved Oxygen (%)
LF08_07 (leachate)	18/03/2025	16.07	Error with machine meant readings weren't taken			
C1A (leachate)	18/03/2025	23.18	Not sampled, dip level only			
C1B (leachate)	18/03/2025	20.94	Not sampled, dip level only			
C1E (leachate)	18/03/2025	22.70	Not sampled, dip level only			
C1D (leachate)	Unable to access					
C2A (leachate)	18/03/2025	13.66	Not sampled, dip level only			
C2B (leachate)	Unable to dip and sample due to obstruction in well					
C2C (leachate)	18/03/2025	23.70	8.6	20350	18.6	2.1
C3A (leachate)	18/03/2025	15.14	Not sampled, dip level only			
C3B (leachate)	18/03/2025	18.92	8.3	20790	24.7	0.0
C4A (leachate)	18/03/2025	9.85	Not sampled, dip level only			
C4B (leachate)	18/03/2025	15.26	7.7	20210	22.6	4.5

## Groundwater Laboratory Testing Results

### Compliance Levels

The agreed Control Levels and Compliance Limits for Area 2 'priority contaminants' are reproduced in Tables 2 and 3 below.

**Table 2** PPC Permit Compliance Levels for Emissions to Groundwater (Hazardous Substances)

Monitoring Well	Benzene	Naphthalene	Xylene	Arsenic
	Compliance Limit	Compliance Limit	Compliance Limit	Compliance Limit
	$\mu\text{g}/\text{l}$	$\mu\text{g}/\text{l}$	$\mu\text{g}/\text{l}$	$\mu\text{g}/\text{l}$
GW03_09	2	5	3	35
GW06_13	2	5	3	50
GW06_14a	2	5	3	25
GW06_34	2	5	3	65
GW06_36	2	5	3	30
GW06_37	2	5	3	60
GW06_39	2	5	3	50
GW07_40	2	5	3	35
GW09_31	13	5	3	80
GW09_32	3	5	3	30
GW09_35	2	5	3	50
GW12_30	1	1	1	160
GW12_33	1	1	1	560
GW12_38	1	1	1	26

**Table 3** PPC Permit Compliance Levels for Emissions to Groundwater (Non-Hazardous Substance)

Monitoring Well	Nickel		Potassium		Ammoniacal Nitrogen	
	Control Level	Compliance Limit	Control Level	Compliance Limit	Control Level	Compliance Limit
	µg/l	µg/l	mg/l	mg/l	mg/l	mg/l
GW03_09	8	10	160	180	30	35
GW06_13	12	14	100	110	30	35
GW06_14a	12	14	160	180	53	60
GW06_34	12	14	310	350	30	35
GW06_36	8	10	100	110	20	23
GW06_37	8	10	100	110	30	35
GW06_39	26.4	30	100	110	20	23
GW07_40	8	10	39.6	45	20	23
GW09_31	8	10	100	110	50	50
GW09_32	8	10	160	180	50	50
GW09_35	8	10	100	110	30	35
GW12_30	25	30	35	40	10	12
GW12_33	5	6	50	55	15	18
GW12_38	25	30	65	70	10	12

### Priority Contaminants

#### Hazardous Substances (formally List I Substances)

All of the hazardous substances specified as “priority contaminants” in the Area 2 Hydrogeological Risk Assessment and monitored in groundwater samples from compliance wells in March 2025 were recorded below the Compliance Limits.

#### Non-Hazardous Substances

None of the non-hazardous substances agreed as “priority contaminants” exceeded the well specific Control and Compliance Limits in the groundwater sampled during Round 253.

### Leachate Measurements and Laboratory Test Results

Leachate levels were recorded at C1A, C1B, C1E, C2A, C2C, C3A, C3B, C4A, C4B and LF08\_07 in March 2025 and the leachate head levels are indicated to be as follows:

**Table6** Leachate Levels – March 2025

Monitoring Location	Leachate Head (m)
C1A	1.92
C1B	1.98
C1E	1.96
C2A	1.44
C2C	1.90
C3A	1.96
C3B	1.98
C4A	1.55
C4B	1.78
LF08_07 (Cell 1)	0.42

All of the ten locations monitored were below the permitted level of 2m. Monitoring points C1D and C2B were unable to be dipped.

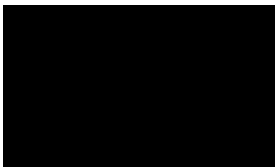
#### Leachate Removed

During January to March 2025, a total of 6,667,100kg of Leachate was removed from Area 2 (Cells 1 to 4 combined).

#### Concluding Remarks


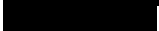
Stantec will continue to monitor and comment on the groundwater quality and leachate within subsequent reports. If you have any questions regarding the data, then please do not hesitate to contact us.

Yours sincerely,



**Technical Director – Geoenvironmental Services**  
on behalf of Stantec UK Ltd

Encls: Laboratory Certificates

CC:  – NCC (Docksway Disposal Site)  
 – NCC