

APPENDIX 8 - Geo-Environmental Testing Results (Validation Testing)



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Analytical Report Number : 24-043849

Project / Site name:	Aldi Holbeach	Samples received on:	05/09/2024
Your job number:	GRO-21400	Samples instructed on/ Analysis started on:	24/09/2024
Your order number:	ORD-21400-4331	Analysis completed by:	07/10/2024
Report Issue Number:	1	Report issued on:	07/10/2024
Samples Analysed:	19 soil samples		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 24-043849
Project / Site name: Aldi Holbeach
Your Order No: ORD-21400-4331

Lab Sample Number				326241	326242	326243	326244	326245
Sample Reference				S01	S03	S04	S05	S06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.95	1.10	1.00	1.30	2.10
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	34.1	15.7	12.1	21.3	< 0.1
Moisture Content	%	0.01	NONE	23	29	35	41	24
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.9	0.7	0.8

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO	DSO	DSO	DSO

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	7.9	7.4	7.7	8.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3200	2200	1900	2700	230
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	1600	1120	948	1330	116
Organic Matter (automated)	%	0.1	MCERTS	4.6	4.1	4.6	5.2	1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.39	0.53	0.42	1.3	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.12	< 0.05	< 0.05	0.21	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.25	0.4	0.28	0.61	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.25	0.41	0.29	0.97	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.9	2.8	2	4.8	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.58	1.1	0.55	1.3	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	5.3	5.8	6	6.8	< 0.05
Pyrene	mg/kg	0.05	MCERTS	4.8	4.7	5.3	5.7	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.1	3.3	2.9	3.8	< 0.05
Chrysene	mg/kg	0.05	MCERTS	3.7	3.1	3	3.5	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	4.8	3.6	3.5	4.3	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.9	1.7	1.7	1.7	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.6	3.5	2.9	3.2	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.3	1.9	1.6	2	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.64	0.39	0.42	0.42	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.7	1.9	1.8	2	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	36.2	35	32.6	42.6	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	65	57	56	78	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	3.1	2.1	1.6	2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	190	39	39	38	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	230	150	150	380	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	720	330	550	340	18
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	93	75	70	88	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	1600	770	1000	630	66

Analytical Report Number: 24-043849

Project / Site name: Aldi Holbeach

Your Order No: ORD-21400-4331

Lab Sample Number				326241	326242	326243	326244	326245
Sample Reference				S01	S03	S04	S05	S06
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.95	1.10	1.00	1.30	2.10
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	0.033	0.043	< 0.010	0.81	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	7.3	2	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	4.2	22	19	110	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	22	44	38	140	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	100	170	220	230	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	130	240	280	480	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	2.1	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	6.7	6.8	34	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	22	24	56	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	34	82	86	110	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	34	110	120	200	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-043849
Project / Site name: Aldi Holbeach
Your Order No: ORD-21400-4331

Lab Sample Number				326246	326247	326248	326249	326250
Sample Reference				S08	S09	S10	S11	S12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	2.30	2.40	2.00	0.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	24	24	22	23	17
Total mass of sample received	kg	0.1	NONE	0.9	0.7	0.8	0.9	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO	DSO	DSO	DSO

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.4	8.3	8.3	8.4	7.6
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	99	98	180	170	4100
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	49.3	49	89.6	86.7	2040
Organic Matter (automated)	%	0.1	MCERTS	1	1.3	1.3	1	9.8

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	9.3	6.6	8.1	4.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	28	27	24	41
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.8	11	10	21	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	13	12	15	10
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	23	22	21	39
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	1.1
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	58	57	54	58	73

Analytical Report Number: 24-043849
Project / Site name: Aldi Holbeach
Your Order No: ORD-21400-4331

Lab Sample Number				326246	326247	326248	326249	326250
Sample Reference				S08	S09	S10	S11	S12
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	2.30	2.40	2.00	0.00
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	2.9
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	8.9
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	12

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-043849

Project / Site name: Aldi Holbeach

Your Order No: ORD-21400-4331

Lab Sample Number				326251	326252	326253	326254	326255
Sample Reference				S15	S17	S18	S19	S20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00	2.40	2.40	2.40	2.40
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	21	12	24	24
Total mass of sample received	kg	0.1	NONE	0.8	0.6	0.7	0.8	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	EWS	EWS	DSO	EWS	EWS

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.7	7.6	8.4	8.2	8.2
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3600	1600	770	1200	840
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	1790	776	387	613	422
Organic Matter (automated)	%	0.1	MCERTS	11	1.4	1.5	1.7	1.7

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.07
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.1	9.1	9.8	10	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	43	19	29	21	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	34	7.2	8.7	8.7	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	9.5	8.6	9.7	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	17	22	18	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	89	42	40	47	52

Analytical Report Number: 24-043849

Project / Site name: Aldi Holbeach

Your Order No: ORD-21400-4331

Lab Sample Number				326251	326252	326253	326254	326255
Sample Reference				S15	S17	S18	S19	S20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.00	2.40	2.40	2.40	2.40
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status		

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	4.5	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	15	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	20	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 24-043849
Project / Site name: Aldi Holbeach
Your Order No: ORD-21400-4331

Lab Sample Number				326256	326257	326258	326259
Sample Reference				S22	S23	S24	S25
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.40	2.20	2.20	2.20
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	9.9
Moisture Content	%	0.01	NONE	21	15	13	13
Total mass of sample received	kg	0.1	NONE	0.7	0.8	0.6	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO	DSO	DSO

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	8.1	8.2	8.4
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	560	1000	1600	730
Water Soluble SO ₄ 16hr extraction (2:1)	mg/l	1.25	MCERTS	281	508	824	367
Organic Matter (automated)	%	0.1	MCERTS	2	2.6	2.4	1.6

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.7	14	12	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	0.3	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	29	24	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	10	14	13	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	14	13	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	25	20	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	55	60	57	57

Analytical Report Number: 24-043849
 Project / Site name: Aldi Holbeach
 Your Order No: ORD-21400-4331

Lab Sample Number				326256	326257	326258	326259
Sample Reference				S22	S23	S24	S25
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.40	2.20	2.20	2.20
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	< 10	< 10	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
326241	S01	None Supplied	0.95	Brown sand with stones
326242	S03	None Supplied	1.1	Brown sand with stones
326243	S04	None Supplied	1	Brown sand with stones
326244	S05	None Supplied	1.3	Brown sand with stones
326245	S06	None Supplied	2.1	Brown clay
326246	S08	None Supplied	2	Brown clay
326247	S09	None Supplied	2.3	Brown clay
326248	S10	None Supplied	2.4	Brown clay
326249	S11	None Supplied	2	Brown clay
326250	S12	None Supplied	0	Brown clay and sand
326251	S15	None Supplied	0	Brown clay and sand
326252	S17	None Supplied	2.4	Brown clay and sand
326253	S18	None Supplied	2.4	Brown clay and sand
326254	S19	None Supplied	2.4	Brown clay and sand
326255	S20	None Supplied	2.4	Brown clay and sand
326256	S22	None Supplied	2.4	Brown clay and sand
326257	S23	None Supplied	2.2	Brown clay and sand
326258	S24	None Supplied	2.2	Brown clay and sand
326259	S25	None Supplied	2.2	Brown clay and sand with stones

Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution



4041



Sample Deviation Report



Environmental Science

Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
S01	N/A	S	326241	a	Asbestos Quant if Screen/ID positive	N/A	a
S01	N/A	S	326241	a	Asbestos identification in Soil	A001B	a
S01	N/A	S	326241	a	Asbestos types if id possitive	N/A	a
S01	N/A	S	326241	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S01	N/A	S	326241	a	Hexavalent chromium in soil	L080-PL	a
S01	N/A	S	326241	a	Metals in soil by ICP-OES	L038B	a
S01	N/A	S	326241	a	Organic matter (Automated) in soil	L009B	a
S01	N/A	S	326241	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S01	N/A	S	326241	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S01	N/A	S	326241	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S01	N/A	S	326241	a	pH in soil (automated)	L099-PL	a
S03	N/A	S	326242	a	Asbestos Quant if Screen/ID positive	N/A	a
S03	N/A	S	326242	a	Asbestos identification in Soil	A001B	a
S03	N/A	S	326242	a	Asbestos types if id possitive	N/A	a
S03	N/A	S	326242	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S03	N/A	S	326242	a	Hexavalent chromium in soil	L080-PL	a
S03	N/A	S	326242	a	Metals in soil by ICP-OES	L038B	a
S03	N/A	S	326242	a	Organic matter (Automated) in soil	L009B	a
S03	N/A	S	326242	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S03	N/A	S	326242	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S03	N/A	S	326242	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S03	N/A	S	326242	a	pH in soil (automated)	L099-PL	a
S04	N/A	S	326243	a	Asbestos Quant if Screen/ID positive	N/A	a
S04	N/A	S	326243	a	Asbestos identification in Soil	A001B	a
S04	N/A	S	326243	a	Asbestos types if id possitive	N/A	a
S04	N/A	S	326243	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S04	N/A	S	326243	a	Hexavalent chromium in soil	L080-PL	a
S04	N/A	S	326243	a	Metals in soil by ICP-OES	L038B	a
S04	N/A	S	326243	a	Organic matter (Automated) in soil	L009B	a
S04	N/A	S	326243	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S04	N/A	S	326243	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S04	N/A	S	326243	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S04	N/A	S	326243	a	pH in soil (automated)	L099-PL	a
S05	N/A	S	326244	a	Asbestos Quant if Screen/ID positive	N/A	a
S05	N/A	S	326244	a	Asbestos identification in Soil	A001B	a
S05	N/A	S	326244	a	Asbestos types if id possitive	N/A	a
S05	N/A	S	326244	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S05	N/A	S	326244	a	Hexavalent chromium in soil	L080-PL	a
S05	N/A	S	326244	a	Metals in soil by ICP-OES	L038B	a
S05	N/A	S	326244	a	Organic matter (Automated) in soil	L009B	a
S05	N/A	S	326244	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S05	N/A	S	326244	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S05	N/A	S	326244	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S05	N/A	S	326244	a	pH in soil (automated)	L099-PL	a
S06	N/A	S	326245	a	Asbestos Quant if Screen/ID positive	N/A	a
S06	N/A	S	326245	a	Asbestos identification in Soil	A001B	a
S06	N/A	S	326245	a	Asbestos types if id possitive	N/A	a
S06	N/A	S	326245	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S06	N/A	S	326245	a	Hexavalent chromium in soil	L080-PL	a
S06	N/A	S	326245	a	Metals in soil by ICP-OES	L038B	a
S06	N/A	S	326245	a	Organic matter (Automated) in soil	L009B	a
S06	N/A	S	326245	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S06	N/A	S	326245	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S06	N/A	S	326245	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S06	N/A	S	326245	a	pH in soil (automated)	L099-PL	a
S08	N/A	S	326246	a	Asbestos Quant if Screen/ID positive	N/A	a
S08	N/A	S	326246	a	Asbestos identification in Soil	A001B	a
S08	N/A	S	326246	a	Asbestos types if id possitive	N/A	a

Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
S08	N/A	S	326246	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S08	N/A	S	326246	a	Hexavalent chromium in soil	L080-PL	a
S08	N/A	S	326246	a	Metals in soil by ICP-OES	L038B	a
S08	N/A	S	326246	a	Organic matter (Automated) in soil	L009B	a
S08	N/A	S	326246	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S08	N/A	S	326246	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S08	N/A	S	326246	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S08	N/A	S	326246	a	pH in soil (automated)	L099-PL	a
S09	N/A	S	326247	a	Asbestos Quant if Screen/ID positive	N/A	a
S09	N/A	S	326247	a	Asbestos identification in Soil	A001B	a
S09	N/A	S	326247	a	Asbestos types if id possitive	N/A	a
S09	N/A	S	326247	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S09	N/A	S	326247	a	Hexavalent chromium in soil	L080-PL	a
S09	N/A	S	326247	a	Metals in soil by ICP-OES	L038B	a
S09	N/A	S	326247	a	Organic matter (Automated) in soil	L009B	a
S09	N/A	S	326247	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S09	N/A	S	326247	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S09	N/A	S	326247	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S09	N/A	S	326247	a	pH in soil (automated)	L099-PL	a
S10	N/A	S	326248	a	Asbestos Quant if Screen/ID positive	N/A	a
S10	N/A	S	326248	a	Asbestos identification in Soil	A001B	a
S10	N/A	S	326248	a	Asbestos types if id possitive	N/A	a
S10	N/A	S	326248	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S10	N/A	S	326248	a	Hexavalent chromium in soil	L080-PL	a
S10	N/A	S	326248	a	Metals in soil by ICP-OES	L038B	a
S10	N/A	S	326248	a	Organic matter (Automated) in soil	L009B	a
S10	N/A	S	326248	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S10	N/A	S	326248	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S10	N/A	S	326248	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S10	N/A	S	326248	a	pH in soil (automated)	L099-PL	a
S11	N/A	S	326249	a	Asbestos Quant if Screen/ID positive	N/A	a
S11	N/A	S	326249	a	Asbestos identification in Soil	A001B	a
S11	N/A	S	326249	a	Asbestos types if id possitive	N/A	a
S11	N/A	S	326249	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S11	N/A	S	326249	a	Hexavalent chromium in soil	L080-PL	a
S11	N/A	S	326249	a	Metals in soil by ICP-OES	L038B	a
S11	N/A	S	326249	a	Organic matter (Automated) in soil	L009B	a
S11	N/A	S	326249	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S11	N/A	S	326249	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S11	N/A	S	326249	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S11	N/A	S	326249	a	pH in soil (automated)	L099-PL	a
S12	N/A	S	326250	a	Asbestos Quant if Screen/ID positive	N/A	a
S12	N/A	S	326250	a	Asbestos identification in Soil	A001B	a
S12	N/A	S	326250	a	Asbestos types if id possitive	N/A	a
S12	N/A	S	326250	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S12	N/A	S	326250	a	Hexavalent chromium in soil	L080-PL	a
S12	N/A	S	326250	a	Metals in soil by ICP-OES	L038B	a
S12	N/A	S	326250	a	Organic matter (Automated) in soil	L009B	a
S12	N/A	S	326250	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S12	N/A	S	326250	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S12	N/A	S	326250	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S12	N/A	S	326250	a	pH in soil (automated)	L099-PL	a
S15	N/A	S	326251	a	Asbestos Quant if Screen/ID positive	N/A	a
S15	N/A	S	326251	a	Asbestos identification in Soil	A001B	a
S15	N/A	S	326251	a	Asbestos types if id possitive	N/A	a
S15	N/A	S	326251	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S15	N/A	S	326251	a	Hexavalent chromium in soil	L080-PL	a
S15	N/A	S	326251	a	Metals in soil by ICP-OES	L038B	a

Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
S15	N/A	S	326251	a	Organic matter (Automated) in soil	L009B	a
S15	N/A	S	326251	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S15	N/A	S	326251	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S15	N/A	S	326251	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S15	N/A	S	326251	a	pH in soil (automated)	L099-PL	a
S17	N/A	S	326252	a	Asbestos Quant if Screen/ID positive	N/A	a
S17	N/A	S	326252	a	Asbestos identification in Soil	A001B	a
S17	N/A	S	326252	a	Asbestos types if id possitive	N/A	a
S17	N/A	S	326252	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S17	N/A	S	326252	a	Hexavalent chromium in soil	L080-PL	a
S17	N/A	S	326252	a	Metals in soil by ICP-OES	L038B	a
S17	N/A	S	326252	a	Organic matter (Automated) in soil	L009B	a
S17	N/A	S	326252	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S17	N/A	S	326252	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S17	N/A	S	326252	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S17	N/A	S	326252	a	pH in soil (automated)	L099-PL	a
S18	N/A	S	326253	a	Asbestos Quant if Screen/ID positive	N/A	a
S18	N/A	S	326253	a	Asbestos identification in Soil	A001B	a
S18	N/A	S	326253	a	Asbestos types if id possitive	N/A	a
S18	N/A	S	326253	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S18	N/A	S	326253	a	Hexavalent chromium in soil	L080-PL	a
S18	N/A	S	326253	a	Metals in soil by ICP-OES	L038B	a
S18	N/A	S	326253	a	Organic matter (Automated) in soil	L009B	a
S18	N/A	S	326253	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S18	N/A	S	326253	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S18	N/A	S	326253	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S18	N/A	S	326253	a	pH in soil (automated)	L099-PL	a
S19	N/A	S	326254	a	Asbestos Quant if Screen/ID positive	N/A	a
S19	N/A	S	326254	a	Asbestos identification in Soil	A001B	a
S19	N/A	S	326254	a	Asbestos types if id possitive	N/A	a
S19	N/A	S	326254	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S19	N/A	S	326254	a	Hexavalent chromium in soil	L080-PL	a
S19	N/A	S	326254	a	Metals in soil by ICP-OES	L038B	a
S19	N/A	S	326254	a	Organic matter (Automated) in soil	L009B	a
S19	N/A	S	326254	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S19	N/A	S	326254	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S19	N/A	S	326254	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S19	N/A	S	326254	a	pH in soil (automated)	L099-PL	a
S20	N/A	S	326255	a	Asbestos Quant if Screen/ID positive	N/A	a
S20	N/A	S	326255	a	Asbestos identification in Soil	A001B	a
S20	N/A	S	326255	a	Asbestos types if id possitive	N/A	a
S20	N/A	S	326255	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S20	N/A	S	326255	a	Hexavalent chromium in soil	L080-PL	a
S20	N/A	S	326255	a	Metals in soil by ICP-OES	L038B	a
S20	N/A	S	326255	a	Organic matter (Automated) in soil	L009B	a
S20	N/A	S	326255	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S20	N/A	S	326255	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S20	N/A	S	326255	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S20	N/A	S	326255	a	pH in soil (automated)	L099-PL	a
S22	N/A	S	326256	a	Asbestos Quant if Screen/ID positive	N/A	a
S22	N/A	S	326256	a	Asbestos identification in Soil	A001B	a
S22	N/A	S	326256	a	Asbestos types if id possitive	N/A	a
S22	N/A	S	326256	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S22	N/A	S	326256	a	Hexavalent chromium in soil	L080-PL	a
S22	N/A	S	326256	a	Metals in soil by ICP-OES	L038B	a
S22	N/A	S	326256	a	Organic matter (Automated) in soil	L009B	a
S22	N/A	S	326256	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S22	N/A	S	326256	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a

Analytical Report Number : 24-043849

Project / Site name: Aldi Holbeach

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
S22	N/A	S	326256	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S22	N/A	S	326256	a	pH in soil (automated)	L099-PL	a
S23	N/A	S	326257	a	Asbestos Quant if Screen/ID positive	N/A	a
S23	N/A	S	326257	a	Asbestos identification in Soil	A001B	a
S23	N/A	S	326257	a	Asbestos types if id possitive	N/A	a
S23	N/A	S	326257	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S23	N/A	S	326257	a	Hexavalent chromium in soil	L080-PL	a
S23	N/A	S	326257	a	Metals in soil by ICP-OES	L038B	a
S23	N/A	S	326257	a	Organic matter (Automated) in soil	L009B	a
S23	N/A	S	326257	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S23	N/A	S	326257	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S23	N/A	S	326257	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S23	N/A	S	326257	a	pH in soil (automated)	L099-PL	a
S24	N/A	S	326258	a	Asbestos Quant if Screen/ID positive	N/A	a
S24	N/A	S	326258	a	Asbestos identification in Soil	A001B	a
S24	N/A	S	326258	a	Asbestos types if id possitive	N/A	a
S24	N/A	S	326258	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S24	N/A	S	326258	a	Hexavalent chromium in soil	L080-PL	a
S24	N/A	S	326258	a	Metals in soil by ICP-OES	L038B	a
S24	N/A	S	326258	a	Organic matter (Automated) in soil	L009B	a
S24	N/A	S	326258	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S24	N/A	S	326258	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S24	N/A	S	326258	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S24	N/A	S	326258	a	pH in soil (automated)	L099-PL	a
S25	N/A	S	326259	a	Asbestos Quant if Screen/ID positive	N/A	a
S25	N/A	S	326259	a	Asbestos identification in Soil	A001B	a
S25	N/A	S	326259	a	Asbestos types if id possitive	N/A	a
S25	N/A	S	326259	a	BTEX and/or Volatile organic compounds in soil	L073B	a
S25	N/A	S	326259	a	Hexavalent chromium in soil	L080-PL	a
S25	N/A	S	326259	a	Metals in soil by ICP-OES	L038B	a
S25	N/A	S	326259	a	Organic matter (Automated) in soil	L009B	a
S25	N/A	S	326259	a	Speciated PAHs and/or Semi-volatile organic compounds in soil	L064B	a
S25	N/A	S	326259	a	Sulphate, water soluble, in soil (16hr extraction)	L038B	a
S25	N/A	S	326259	a	Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	L076B/L088-PL	a
S25	N/A	S	326259	a	pH in soil (automated)	L099-PL	a