

METROLINK

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A19.3a

**Groundwater
Monitoring
Record Sheets
Round 1 2021**

Groundwater Monitoring Record Sheet

METROLINK

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Dublin 17, Ireland.

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	25/02/2021		
Weather Conditions:	Dry, cold and clear		
GW location ID:	AWN01(S)	AZ Zone	AZ-3
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	6.04	Total depth (mbtoc)	18
SWL (mBGL)	5.74	S/P recess/ above g/l (m)	0.3
General location details:	Agricultural land south of Dublin Airport		
GPS co-ordinates (ITM):	715696, 742154		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	25/02/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.6	11.5	11.5
pH	8.32	8.31	8.26
Electrical Conductivity (uS/cm)	930	931	931
TDS (ppt)	0.66	0.66	0.66

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Yes, above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	Active farming field		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/2750
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	25/02/2021		
Weather Conditions:	Dry, cold and clear		
GW location ID:	AWN02(D)	AZ Zone	AZ-3
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	6.24	Total depth (mbtoc)	28.35
SWL (mBGL)	5.92	S/P recess/ above g/l (m)	0.29
General location details:	Agricultural land south of Dublin Airport		
GPS co-ordinates (ITM):	715427, 741788		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	25/02/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.7	9.7	9.7
pH	8.15	8.14	8.14
Electrical Conductivity (uS/cm)	715	715	715
TDS (ppt)	0.5	0.5	0.5

Water Sample Observations (field)				
Colour	Merky to light brown	Capped at ground level	Y / N	Yes, above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	Poor drainage exhibited on the field. Localised fly tipping noted during site visit		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/2750
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	02/02/2021		
Weather Conditions:	Dry, calm and overcast		
GW location ID:	NBH04	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	3.48	Total depth (mbtoc)	30
SWL (mBGL)	3.57	S/P recess/above g/l (m)	-0.09
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716965.57, 743512.23		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	02/02/2021	Time: -
Last Full Calibration	February_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.2	11.0	11.0
pH	7.21	7.20	7.20
Electrical Conductivity (uS/cm)	970	965	965
TDS (ppt)	0.69	0.68	0.68

Water Sample Observations (field)				
Colour	Merky to turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Yes, organic	Other field related:		
Sediment/Precipitate	Slight	The T2 surface car park is close to fire fighting activities area in the Dublin Airport		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/1428
Yes			

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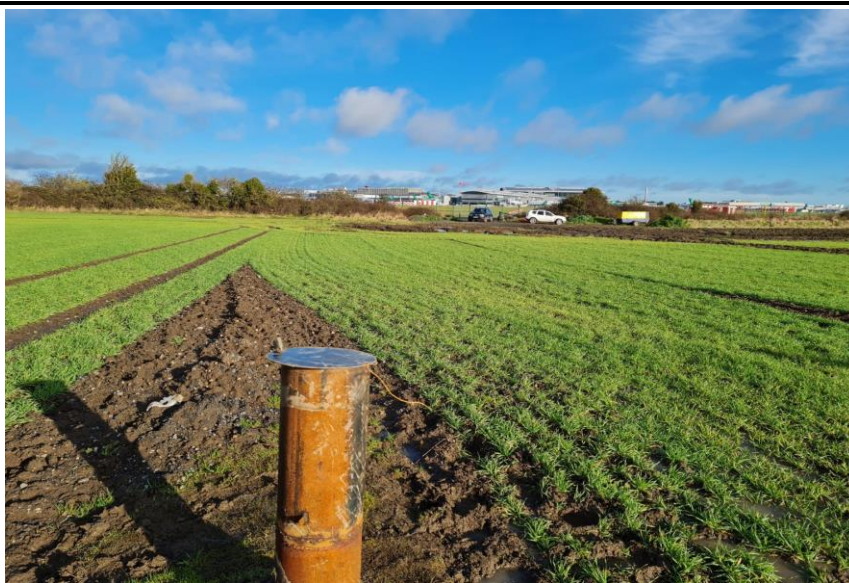
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	21/01/2021		
Weather Conditions:	Overcast, dry and cold (heavy rain the night before)		
GW location ID:	NBH06A	AZ Zone	AZ-3
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	5.45	Total depth (mbtoc)	22.5
SWL (mBGL)	5.02	S/P recess/above g/l (m)	0.43
General location details:	Agricultural land just south of the Dublin Airport and along the old Airport Road		
GPS co-ordinates (ITM):	716322.45, 742232.9		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & MA
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	21/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.2	9.2	9.2
pH	7.75	7.75	7.75
Electrical Conductivity (uS/cm)	895	895	895
TDS (ppt)	0.63	0.63	0.63

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped above ground
Odour Present	Slight organic/ rotten eggs	Other field related:		
Sediment/Precipitate	No	The agricultural land is susceptible to local flooding. A lot of surface water ponding across the site. Ground conditions are poor (very soft)		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/805
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	21/01/2021		
Weather Conditions:	Overcast, dry and cold (heavy rain the night before)		
GW location ID:	NBH06W	AZ Zone	AZ-3
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	5.23	Total depth (mbtoc)	45
SWL (mBGL)	4.96	S/P recess/above g/l (m)	0.27
General location details:	Agricultural land just south of the Dublin Airport and along the old Airport Road		
GPS co-ordinates (ITM):	71632.43, 742224.11		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & MA
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	21/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.1	10.1	10.1
pH	7.84	7.84	7.84
Electrical Conductivity (uS/cm)	747	747	747
TDS (ppt)	0.53	0.53	0.53

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped above ground
Odour Present	Yes, organic/ rotten eggs	Other field related:		
Sediment/Precipitate	No	The agricultural land is susceptible to local flooding. A lot of surface water ponding across the site. Ground conditions are poor (very soft)		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/805
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	06/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH12	AZ Zone	AZ-3
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	10.07	Total depth (mbtoc)	28.5
SWL (mBGL)	9.97	S/P recess/above g/l (m)	0.1
General location details:	Greenfield / parkland		
GPS co-ordinates (ITM):	715308.61,740710.89		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.5	9.5	9.5
pH	7.44	7.44	7.44
Electrical Conductivity (uS/cm)	700	700	700
TDS (ppt)	0.45	0.45	0.45

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped above ground
Odour Present	No	Other field related:	
Sediment/Precipitate	No	Borehole cap was open upon arrival and some debris was noted within bore.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Greenfield / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/78

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	07/01/2021		
Weather Conditions:	Overcast, snow/wet and cold		
GW location ID:	NBH17	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	2.76	Total depth (mbtoc)	31.6
SWL (mBGL)	2.901	S/P recess/ above g/l (m)	-0.141
General location details:	Soccer park / pitch (Home Farm)		
GPS co-ordinates (ITM):	715433.93, 737253.02		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.1	9.1	9.1
pH	7.3	7.3	7.3
Electrical Conductivity (uS/cm)	888	888	888
TDS (ppt)	0.57	0.57	0.57

Water Sample Observations (field)			
Colour	Clear to slightly silty	Capped at ground level	Y / N Capped flush to the ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Slight	Slow to moderate recharge noted.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Recreational / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/142

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	08/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH18(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	6.96	Total depth (mbtoc)	15
SWL (mBGL)	7.00	S/P recess/above g/l (m)	-0.04
General location details:	Urban - derlict factory close to railway line		
GPS co-ordinates (ITM):	715055.26, 736378.66		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.2	10.2	10.2
pH	7.41	7.41	7.41
Electrical Conductivity (uS/cm)	1259	1259	1259
TDS (ppt)	0.81	0.81	0.81

Water Sample Observations (field)				
Colour	Clear to merky / turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban, derlict factory and house	Yes, gated entrance

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/243

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	08/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH19A	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	9.34	Total depth (mbtoc)	18.5
SWL (mBGL)	9.49	S/P recess/above g/l (m)	-0.15
General location details:	Urban - car park behind the Brian Boru pub		
GPS co-ordinates (ITM):	714960.6, 736410.98		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.1	12.1	12.1
pH	7.01	7.01	7.01
Electrical Conductivity (uS/cm)	1021	1021	1021
TDS (ppt)	0.66	0.66	0.66

Water Sample Observations (field)				
Colour	Merky, slightly turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, car park area	Access constraints:	No, groundwater monitoring location is located behind smoking area of pub
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/243
Yes			

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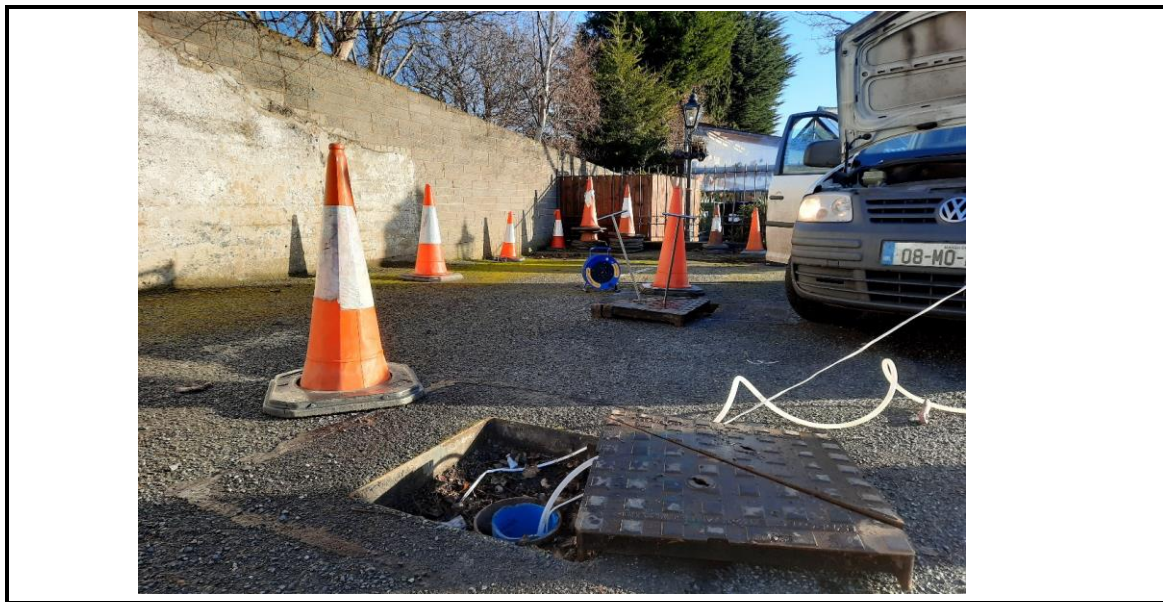
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	08/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH19W	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	9.65	Total depth (mbtoc)	40
SWL (mBGL)	9.75	S/P recess/above g/l (m)	-0.10
General location details:	Urban - car park behind the Brian Boru pub		
GPS co-ordinates (ITM):	714957.65, 736411.45		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.9	11.9	11.9
pH	7.45	7.45	7.45
Electrical Conductivity (uS/cm)	860	860	860
TDS (ppt)	0.55	0.55	0.55

Water Sample Observations (field)				
Colour	Clear to merky	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, car park area	Access constraints:	No, groundwater monitoring location is located behind smoking area of pub
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/243
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	08/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH20(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.08	Total depth (mbtoc)	15.5
SWL (mBGL)	9.09	S/P recess/above g/l (m)	-0.01
General location details:	Urban - walkway along the Royal Canal		
GPS co-ordinates (ITM):	714951.03, 736318.28		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.15	9.15	9.15
pH	7.52	7.52	7.52
Electrical Conductivity (uS/cm)	599	599	599
TDS (ppt)	0.38	0.38	0.38

Water Sample Observations (field)				
Colour	Light brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, walkway along the Royal Canal	Access constraints:	No, located along Royal Canal
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/243
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH21(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	16.9	Total depth (mbtoc)	20
SWL (mBGL)	17.12	S/P recess/above g/l (m)	-0.22
General location details:	GW location located along taxi rank beside St. Joesph Church		
GPS co-ordinates (ITM):	715245.81, 735693.89		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.92	12.92	12.92
pH	7.28	7.28	7.28
Electrical Conductivity (uS/cm)	995	995	995
TDS (ppt)	0.64	0.64	0.64

Water Sample Observations (field)			
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	Slight organic odour	Other field related:	
Sediment/Precipitate	Yes	Minimal water, well was pumped dry four times (slow recharge noted).	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban, taxi rank	Access constraints:	No
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/278
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	09/02/2021		
Weather Conditions:	Snow, wet and cold		
GW location ID:	NBH22(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	1.65	Total depth (mbtoc)	19
SWL (mBGL)	1.70	S/P recess/above g/l (m)	-0.05
General location details:	Moore Lane / O' Connell Street - Construction site		
GPS co-ordinates (ITM):	715712.71, 734924.57		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	08/02/2021	Time: -
Last Full Calibration	February_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.2	12.1	12.1
pH	8.16	8.07	8.08
Electrical Conductivity (uS/cm)	890	887	887
TDS (ppt)	0.63	0.63	0.63

Water Sample Observations (field)			
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban, active construction site	Yes, contact project manager of the site to gain access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/1833

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH23A	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.73	Total depth (mbtoc)	40
SWL (mBGL)	4.76	S/P recess/above g/l (m)	-0.03
General location details:	Derlict site between Moore Lane and O'Connell Street		
GPS co-ordinates (ITM):	715730.57, 734846.12		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.59	12.59	12.59
pH	7.54	7.54	7.54
Electrical Conductivity (uS/cm)	679	679	679
TDS (ppt)	0.44	0.44	0.44

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban, derlict site / construction area	Yes, gated entrance with a bell

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/331

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH23W	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.69	Total depth (mbtoc)	36
SWL (mBGL)	4.85	S/P recess/above g/l (m)	-0.16
General location details:	Derlict site between Moore Lane and O'Connell Street		
GPS co-ordinates (ITM):	715712.5, 734843.89		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.68	11.68	11.68
pH	7.73	7.73	7.73
Electrical Conductivity (uS/cm)	340	340	340
TDS (ppt)	0.22	0.22	0.22

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban, derlict site/ construction area	Access constraints:	Yes, gated entrance with a bell
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/331
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH24(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	4.69	Total depth (mbtoc)	16
SWL (mBGL)	4.71	S/P recess/above g/l (m)	-0.02
General location details:	Car parking area for Dublin Bus employees in the main office on O'Connell Street		
GPS co-ordinates (ITM):	715744.2, 734753.45		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:

Last Field Calibration	Date:	11/01/2021	Time:	-
Last Full Calibration	January_2021			

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.84	12.84	12.84
pH	7.89	7.89	7.89
Electrical Conductivity (uS/cm)	391	391	391
TDS (ppt)	0.25	0.25	0.25

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, car park area	Access constraints:	Yes, potter from Dublin Bus main office
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/331
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	13/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH25(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	3.6	Total depth (mbtoc)	8
SWL (mBGL)	3.70	S/P recess/above g/l (m)	-0.10
General location details:	Poolbeg Street - bus standby area		
GPS co-ordinates (ITM):	716228.69, 734372.1		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	16.14	16.14	16.14
pH	7.20	7.20	7.20
Electrical Conductivity (uS/cm)	22,654	22,654	22,654
TDS (ppt)	14.72	14.72	14.72

Water Sample Observations (field)			
Colour	Brown to dark brown	Capped at ground level	Y / N Yes, flush
Odour Present	Yes - rotten eggs	Other field related:	
Sediment/Precipitate	Yes	Pumped dry four times, limited water and recharge is very slow	
Free Product	Slight		
Hydrocarbon Sheen	Slight		



Environmental setting:	Urban, roadway	Access constraints:	No but be aware of traffic
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/381
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	13/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH26CA	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.105	Total depth (mbtoc)	9
SWL (mBGL)	4.18	S/P recess/above g/l (m)	-0.08
General location details:	Derlict site along Luke Lane and adjacent to train tracks		
GPS co-ordinates (ITM):	716262.56, 734334.47		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.75	13.75	13.75
pH	7.06	7.06	7.06
Electrical Conductivity (uS/cm)	26,506	26,506	26,506
TDS (ppt)	17.22	17.22	17.22

Water Sample Observations (field)				
Colour	Clear to slightly merky	Capped at ground level	Y / N	Yes, flush
Odour Present	Yes - strong rotten eggs	Other field related:		
Sediment/Precipitate	Slight	Strong organic odour		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	Yes, gated entrance
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/381
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	13/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH26CW	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.191	Total depth (mbtoc)	36
SWL (mBGL)	4.23	S/P recess/above g/l (m)	-0.04
General location details:	Derlict site along Luke Lane and adjacent to train tracks		
GPS co-ordinates (ITM):	716264.09, 7343331.43		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.67	13.67	13.67
pH	7.11	7.11	7.11
Electrical Conductivity (uS/cm)	29,058	29,058	29,058
TDS (ppt)	18.88	18.88	18.88

Water Sample Observations (field)				
Colour	Clear to slightly merky	Capped at ground level	Y / N	Yes, flush
Odour Present	Yes - strong rotten eggs	Other field related:		
Sediment/Precipitate	No	Strong organic odour		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	Yes, gated entrance
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/381
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH31	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	4.71	Total depth (mbtoc)	37.63
SWL (mBGL)	4.88	S/P recess/ above g/l (m)	-0.17
General location details:	Dartmouth Road - construction site		
GPS co-ordinates (ITM):	716097, 732476		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	18/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.2	11.2	11.2
pH	7.43	7.43	7.43
Electrical Conductivity (uS/cm)	645	645	645
TDS (ppm)	895	895	895

Water Sample Observations (field)			
Colour	Brown to merky	Capped at ground level	Y / N Flush
Odour Present	No	Other field related:	
Sediment/Precipitate	Slight	Area by borehole is clear and away from the main works of the construction site.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban - construction site	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/609
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	02/02/2021		
Weather Conditions:	Dry, calm and overcast		
GW location ID:	NBH60	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	1.23	Total depth (mbtoc)	1.4
SWL (mBGL)	1.32	S/P recess/above g/l (m)	-0.09
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716919.9, 743471.85		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	02/02/2021	Time: -
Last Full Calibration	February_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	8.6	8.1	8.1
pH	8.11	8.10	8.10
Electrical Conductivity (uS/cm)	731	730	730
TDS (ppt)	0.53	0.52	0.52

Water Sample Observations (field)				
Colour	Light brown to brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight, organic	Other field related:		
Sediment/Precipitate	Yes	The T2 surface car park is close to fire fighting activities area in the Dublin Airport. Minimal purge due to water volume in well bore.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/1428
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	02/02/2021		
Weather Conditions:	Dry, calm and overcast		
GW location ID:	NBH61	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	1.70	Total depth (mbtoc)	2.12
SWL (mBGL)	1.83	S/P recess/above g/l (m)	-0.13
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716963.23, 743504.73		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	02/02/2021	Time: -
Last Full Calibration	February_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.4	9.4	9.4
pH	7.50	7.49	7.49
Electrical Conductivity (uS/cm)	1210	1210	1210
TDS (ppt)	0.85	0.85	0.85

Water Sample Observations (field)				
Colour	Light brown to brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight, organic	Other field related:		
Sediment/Precipitate	Very slight	The T2 surface car park is close to fire fighting activities area in the Dublin Airport. Minimal purge due to water volume in well bore.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/1428
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	02/02/2021		
Weather Conditions:	Dry, calm and overcast		
GW location ID:	NBH62	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	1.55	Total depth (mbtoc)	2.47
SWL (mBGL)	1.63	S/P recess/above g/l (m)	-0.08
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716992.96, 743551.69		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	02/02/2021	Time: -
Last Full Calibration	February_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.7	9.7	9.7
pH	7.75	7.75	7.75
Electrical Conductivity (uS/cm)	1072	1072	1072
TDS (ppt)	0.76	0.76	0.76

Water Sample Observations (field)				
Colour	Light brown to brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	The T2 surface car park is close to fire fighting activities area in the Dublin Airport. Minimal purge due to water volume in well bore.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/1428
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH63	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	DRY	Total depth (mbtoc)	3.99
SWL (mBGL)	DRY	S/P recess/above g/l (m)	-0.10
General location details:	Derlict site between Moore Lane and O'Connell Street		
GPS co-ordinates (ITM):	715732.18, 734849.17		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	n/a	n/a	n/a
pH	n/a	n/a	n/a
Electrical Conductivity (uS/cm)	n/a	n/a	n/a
TDS (ppt)	n/a	n/a	n/a

Water Sample Observations (field)			
Colour	n/a	Capped at ground level	Y / N Yes, flush
Odour Present	n/a	Other field related:	
Sediment/Precipitate	n/a	Cover observed as broken at time of monitoring	
Free Product	n/a		
Hydrocarbon Sheen	n/a		



Environmental setting:	Urban, derlict site/ construction area	Access constraints:	Yes, gated entrance with a bell
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Sample taken:	Y / N	Laboratory Report Ref:	
No			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	13/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH64	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	2.135	Total depth (mbtoc)	4
SWL (mBGL)	2.38	S/P recess/above g/l (m)	-0.25
General location details:	Car parking lot for residents along Townsend Street and Poolbeg Street		
GPS co-ordinates (ITM):	716277.69, 734312.18		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.22	13.22	13.22
pH	7.16	7.16	7.16
Electrical Conductivity (uS/cm)	1,696	1,696	1,696
TDS (ppt)	1.10	1.10	1.10

Water Sample Observations (field)			
Colour	Light brown to brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes	Gas tap installed	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban	Access constraints:	Yes, gated entrance
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/381
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	05/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH72(S)	AZ Zone	AZ-1
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	1.39	Total depth (mbtoc)	6.45
SWL (mBGL)	1.04	S/P recess/above g/l (m)	0.35
General location details:	Agricultural		
GPS co-ordinates (ITM):	718705.56, 748413.29		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11	11	11
pH	7.35	7.35	7.35
Electrical Conductivity (uS/cm)	775	775	775
TDS (ppt)	0.5	0.5	0.5

Water Sample Observations (field)			
Colour	Light brown	Capped at ground level	Y / N Capped above ground
Odour Present	Slight organic	Other field related:	
Sediment/Precipitate	No	Field is susceptible to flooding - drainage ditch was flooded in areas during site visit	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Agricultural	Access constraints:	Yes, call farmer for access
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/53
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	06/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH73(S)	AZ Zone	AZ-3
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.15	Total depth (mbtoc)	10.28
SWL (mBGL)	7.05	S/P recess/ above g/l (m)	0.32
General location details:	Greenfield / parkland		
GPS co-ordinates (ITM):	715293.86, 740600.55		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.03	9.03	9.03
pH	7.37	7.37	7.37
Electrical Conductivity (uS/cm)	650	650	650
TDS (ppt)	0.42	0.42	0.42

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Very silty and metals could not be filtered on site.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Greenfield / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/78

Groundwater Monitoring Record Sheet

METROLINK

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	07/01/2021		
Weather Conditions:	Overcast, snow/wet and cold		
GW location ID:	NBH102(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	10.06	Total depth (mbtoc)	23.94
SWL (mBGL)	10.16	S/P recess/above g/l (m)	-0.1
General location details:	Residential on roadway		
GPS co-ordinates (ITM):	715445.38, 738601.77		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.9	11.9	11.9
pH	7.29	7.29	7.29
Electrical Conductivity (uS/cm)	802	802	802
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped flush to the ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Slight	Slow to moderate recharge.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Residential / roadway	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/142
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	09/02/2021		
Weather Conditions:	Snow, wet and cold		
GW location ID:	ABH30i	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	5.30	Total depth (mbtoc)	29.6
SWL (mBGL)	5.60	S/P recess/above g/l (m)	-0.30
General location details:	Albert College - ballymun road side		
GPS co-ordinates (ITM):	715433, 738337		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:

Last Field Calibration	Date:	08/02/2021	Time:	-
Last Full Calibration	February_2021			

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.3	10.4	10.3
pH	7.9	7.92	7.89
Electrical Conductivity (uS/cm)	720	722	721
TDS (ppt)	0.52	0.51	0.52

Water Sample Observations (field)			
Colour	Merky to grey	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	Slight		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Recreational / Parkland	No

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/1833

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	06/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH203A(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.73	Total depth (mbtoc)	17.9
SWL (mBGL)	9.8	S/P recess/above g/l (m)	-0.07
General location details:	Urban		
GPS co-ordinates (ITM):	715426.93, 739989.93		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	8.8	8.8	8.8
pH	8.74	8.74	8.74
Electrical Conductivity (uS/cm)	887	887	887
TDS (ppt)	0.57	0.57	0.57

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Capped flush to the ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Very silty and metals could not be filtered on site. Duplicate taken at this location. Monitoring location is located adjacent to a construction site.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/78
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	06/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH203A(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.73	Total depth (mbtoc)	35
SWL (mBGL)	9.75	S/P recess/above g/l (m)	-0.02
General location details:	Urban		
GPS co-ordinates (ITM):	715426.93, 739989.93		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.6	11.6	11.6
pH	7.88	7.88	7.88
Electrical Conductivity (uS/cm)	808	808	808
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)			
Colour	Brown to dark brown	Capped at ground level	Y / N Capped flush to the ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes	Very silty and metals could not be filtered on site. Duplicate taken at this location. Monitoring location is located adjacent to a construction site.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/78
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	06/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH207(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.65	Total depth (mbtoc)	38
SWL (mBGL)	9.73	S/P recess/above g/l (m)	-0.08
General location details:	Residential on grass verge		
GPS co-ordinates (ITM):	715437.83, 738723.41		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.1	11.1	11.1
pH	7.52	7.52	7.52
Electrical Conductivity (uS/cm)	685	685	685
TDS (ppt)	0.45	0.45	0.45

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Capped flush to the ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Very silty and metals could not be filtered on site. Duplicate taken at this location.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Residential on grass verge	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/78

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	07/01/2021		
Weather Conditions:	Overcast, snow/wet and cold		
GW location ID:	NBH211	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	At surface	Total depth (mbtoc)	29.2
SWL (mBGL)	At surface	S/P recess/above g/l (m)	-0.2
General location details:	Soccer park / pitch (Home Farm)		
GPS co-ordinates (ITM):	715469.68, 737364.2		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.9	10.9	10.9
pH	7.38	7.38	7.38
Electrical Conductivity (uS/cm)	707	707	707
TDS (ppt)	0.46	0.46	0.46

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped flush to ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Slight	Quick recharge. Well is slightly artesian. There is strong upward pressure noted within this well.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Recreational / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/142

Groundwater Monitoring Record Sheet

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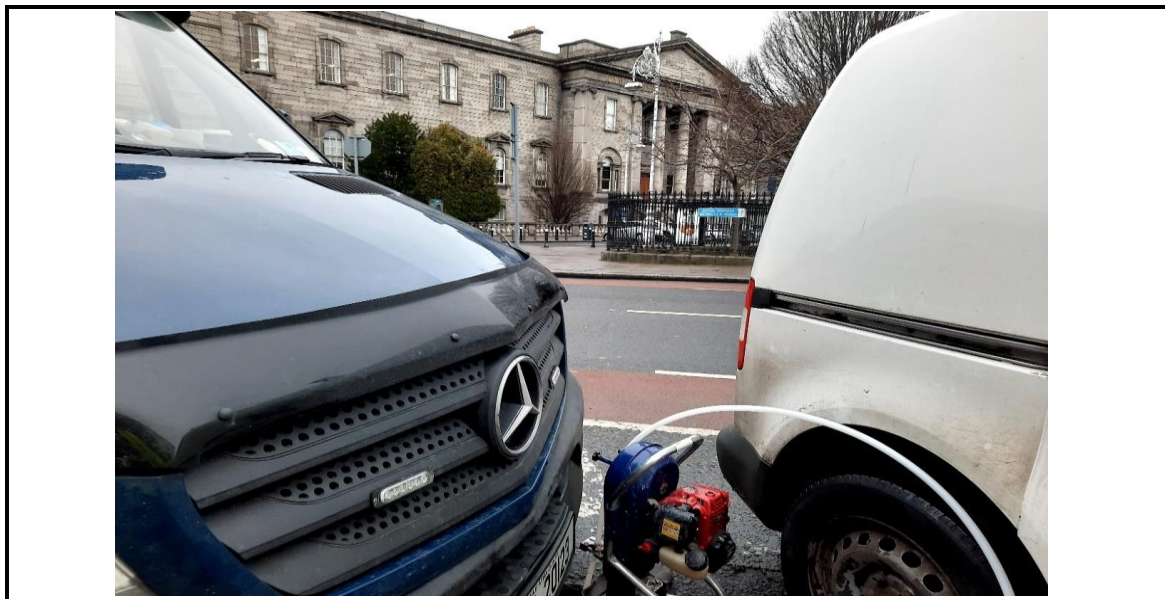
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH215(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	DRY	Total depth (mbtoc)	15.75
SWL (mBGL)	DRY	S/P recess/above g/l (m)	-0.10
General location details:	Street parking area close to Life Pharmacy		
GPS co-ordinates (ITM):	715163.41, 735713.3		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	n/a	n/a	n/a
pH	n/a	n/a	n/a
Electrical Conductivity (uS/cm)	n/a	n/a	n/a
TDS (ppt)	n/a	n/a	n/a

Water Sample Observations (field)			
Colour	n/a	Capped at ground level	Y / N Yes, flush
Odour Present	n/a	Other field related:	
Sediment/Precipitate	n/a		
Free Product	n/a		
Hydrocarbon Sheen	n/a		



Environmental setting:	Urban, street parking	Access constraints:	No, but parking can be busy
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Sample taken:	Y / N	Laboratory Report Ref:	
	No		

Groundwater Monitoring Record Sheet

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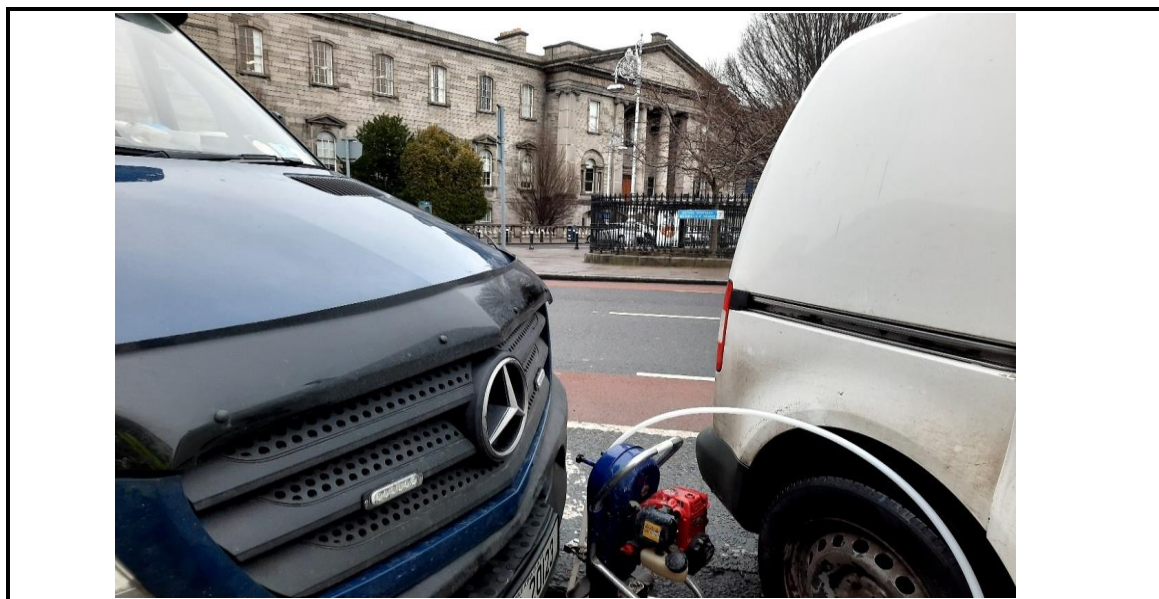
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH215(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	14.21	Total depth (mbtoc)	22
SWL (mBGL)	14.34	S/P recess/above g/l (m)	-0.13
General location details:	Street parking area close to Life Pharmacy		
GPS co-ordinates (ITM):	715163.41, 735713.3		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.95	11.95	11.95
pH	7.59	7.59	7.59
Electrical Conductivity (uS/cm)	708	708	708
TDS (ppt)	0.46	0.46	0.46

Water Sample Observations (field)			
Colour	Merky to brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban, street parking	Access constraints:	No, but parking can be busy
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/278
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH216A(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	15.159	Total depth (mbtoc)	19
SWL (mBGL)	15.30	S/P recess/above g/l (m)	-0.14
General location details:	Driveway for St. Joesph's Church		
GPS co-ordinates (ITM):	715249.41, 735643.64		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.86	10.86	10.86
pH	7.18	7.18	7.18
Electrical Conductivity (uS/cm)	1028	1028	1028
TDS (ppt)	0.67	0.67	0.67

Water Sample Observations (field)			
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	Slight rotten eggs	Other field related:	
Sediment/Precipitate	Yes		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban, driveway of church	Yes, call church to open gates of driveway

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/331

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH216A(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	18.561	Total depth (mbtoc)	31
SWL (mBGL)	18.60	S/P recess/above g/l (m)	-0.04
General location details:	Driveway for St. Joesph's Church		
GPS co-ordinates (ITM):	715249.41, 735643.64		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.85	10.85	10.85
pH	7.32	7.32	7.32
Electrical Conductivity (uS/cm)	800	800	800
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight rotten eggs	Other field related:		
Sediment/Precipitate	Yes			
Free Product	Observed during purging - drilling fluid			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, driveway of church	Access constraints:	Yes, call church to open gates of driveway
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/331
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH219B(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	4.31	Total depth (mbtoc)	12.1
SWL (mBGL)	4.40	S/P recess/above g/l (m)	-0.09
General location details:	Hume Street located along street parking area		
GPS co-ordinates (ITM):	716187.85, 733386.16		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	18/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	14.5	14.5	14.5
pH	7.98	7.98	7.98
Electrical Conductivity (uS/cm)	566	566	566
TDS (ppt)	0.40	0.40	0.40

Water Sample Observations (field)				
Colour	Merky, slightly turbid	Capped at ground level	Y / N	Flush
Odour Present	No	Other field related:		
Sediment/Precipitate	No	Borehole located within the middle of a car space		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/609
Yes			

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/01/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH219B(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	5.58	Total depth (mbtoc)	27.1
SWL (mBGL)	5.95	S/P recess/ above g/l (m)	-0.37
General location details:	Hume Street located along street parking area		
GPS co-ordinates (ITM):	716187.85, 733386.16		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	18/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.8	12.8	12.8
pH	7.28	7.28	7.28
Electrical Conductivity (uS/cm)	992	992	992
TDS (ppt)	0.70	0.70	0.70

Water Sample Observations (field)			
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N Flush
Odour Present	Slight organic	Other field related:	
Sediment/Precipitate	Yes	Borehole located within the middle of a car space	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/609

Groundwater Monitoring Record Sheet

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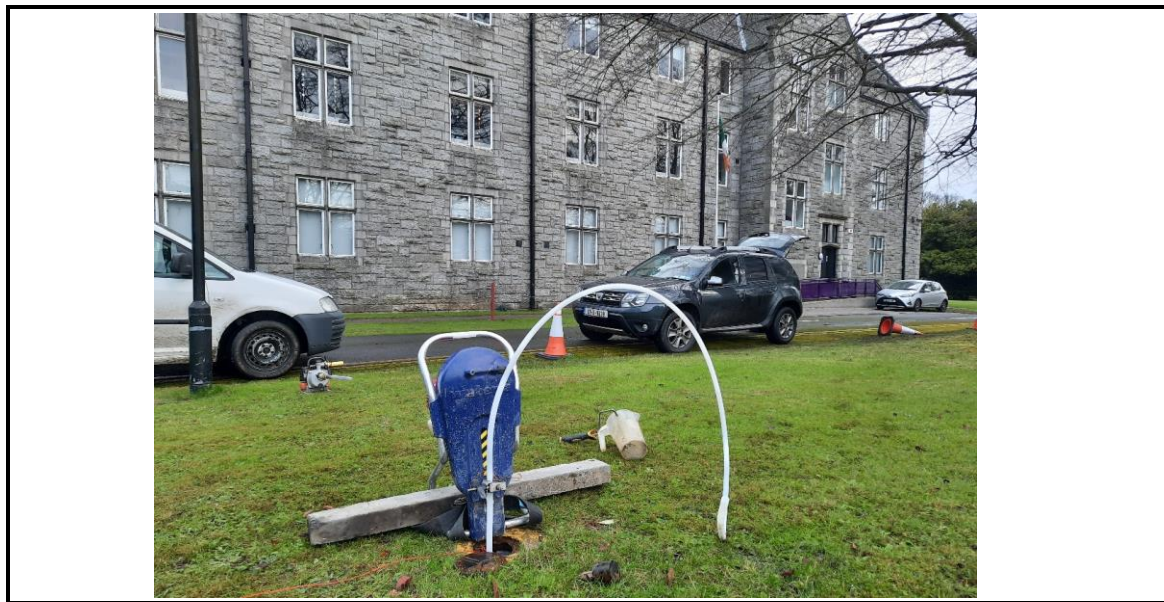
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	07/01/2021		
Weather Conditions:	Overcast, snow/wet and cold		
GW location ID:	NBH223(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	1.175	Total depth (mbtoc)	11.5
SWL (mBGL)	1.215	S/P recess/ above g/l (m)	-0.04
General location details:	Whitehall college - urban on grass verge		
GPS co-ordinates (ITM):	715484.97, 737307.3		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	8.0	8.0	8.0
pH	7.6	7.6	7.6
Electrical Conductivity (uS/cm)	850	850	850
TDS (ppt)	0.55	0.55	0.55

Water Sample Observations (field)				
Colour	Brown to turbid	Capped at ground level	Y / N	Flush
Odour Present	Yes - H2S, rotten eggs	Other field related:		
Sediment/Precipitate	Slight	Quick recharge. Well is slightly artesian. There is strong upward pressure noted within this well.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban on grass verge	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/142

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	05/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH401	AZ Zone	AZ-1
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.08	Total depth (mbtoc)	6
SWL (mBGL)	3.94	S/P recess/above g/l (m)	0.14
General location details:	Parkland		
GPS co-ordinates (ITM):	718499.7, 747695.24		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10	10	10
pH	7.3	7.3	7.3
Electrical Conductivity (uS/cm)	794	794	794
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped above ground
Odour Present	No	Other field related:	
Sediment/Precipitate	No	Ground level is uneven around borehole	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/53

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	05/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH402	AZ Zone	AZ-1
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	3.955	Total depth (mbtoc)	13
SWL (mBGL)	3.75	S/P recess/above g/l (m)	0.2
General location details:	Parkland		
GPS co-ordinates (ITM):	718494.27, 747690.57		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10	10	10
pH	7.32	7.32	7.32
Electrical Conductivity (uS/cm)	794	794	794
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped above ground
Odour Present	No	Other field related:	
Sediment/Precipitate	No	Ground level is uneven around borehole	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Parkland	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21/53
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	05/01/2021		
Weather Conditions:	Overcast, rainy and cold		
GW location ID:	NBH406	AZ Zone	AZ-1
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.72	Total depth (mbtoc)	18
SWL (mBGL)	4.51	S/P recess/above g/l (m)	0.21
General location details:	Residential		
GPS co-ordinates (ITM):	718547.12, 747431.91		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	04/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10	10	10
pH	7.45	7.45	7.45
Electrical Conductivity (uS/cm)	664	664	664
TDS (ppt)	0.043	0.043	0.043

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Residential grass verge area	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21/53

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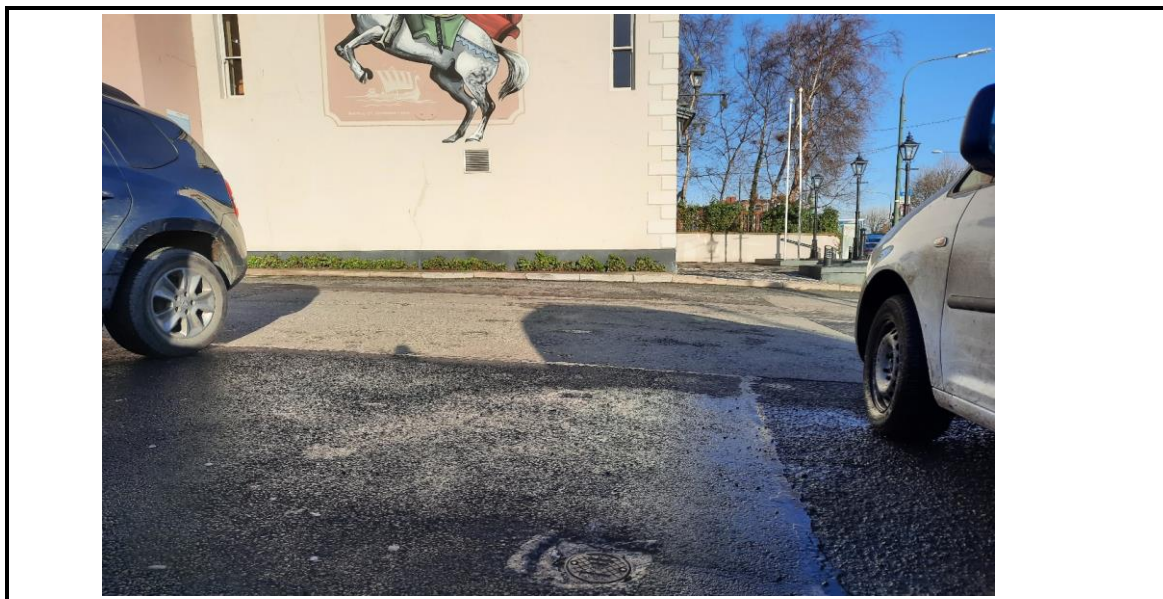
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH01(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.80	Total depth (mbtoc)	18
SWL (mBGL)	7.86	S/P recess/above g/l (m)	-0.06
General location details:	Urban - car park along the Brian Boru pub		
GPS co-ordinates (ITM):	715006.95, 736376.32		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.34	12.34	12.34
pH	7.41	7.41	7.41
Electrical Conductivity (uS/cm)	977	977	977
TDS (ppt)	0.63	0.63	0.63

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			

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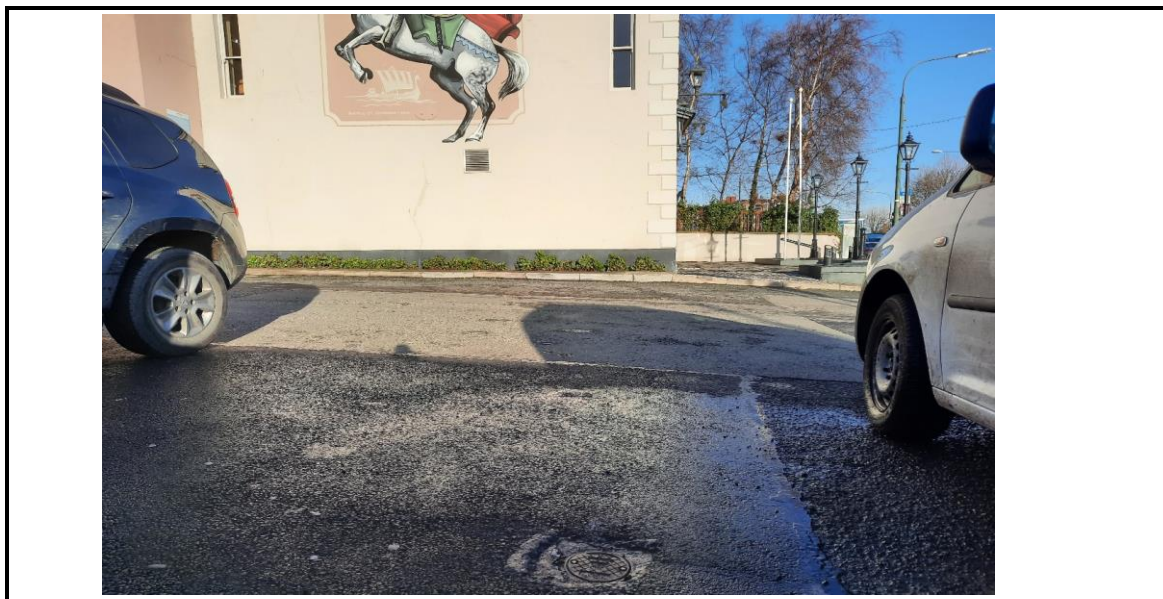
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH01(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.87	Total depth (mbtoc)	40
SWL (mBGL)	7.96	S/P recess/above g/l (m)	-0.09
General location details:	Urban - car park along the Brian Boru pub		
GPS co-ordinates (ITM):	715006.95, 736376.32		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.95	11.95	11.95
pH	7.30	7.30	7.30
Electrical Conductivity (uS/cm)	1,136	1,136	1,136
TDS (ppt)	0.74	0.74	0.74

Water Sample Observations (field)				
Colour	Light brown to merky	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH02(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.28	Total depth (mbtoc)	17
SWL (mBGL)	9.44	S/P recess/above g/l (m)	-0.16
General location details:	Urban - car park at the back of Des Kelly carpets		
GPS co-ordinates (ITM):	714954.15, 736363.46		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.78	9.78	9.78
pH	7.40	7.40	7.40
Electrical Conductivity (uS/cm)	764	764	764
TDS (ppt)	0.49	0.49	0.49

Water Sample Observations (field)			
Colour	Brown and dark brown, turbid	Capped at ground level	Y / N Capped flush to ground level
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban	Access constraints:	Gated access - pin code needed
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH02(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	10.15	Total depth (mbtoc)	40
SWL (mBGL)	10.26	S/P recess/above g/l (m)	-0.11
General location details:	Urban - car park at the back of Des Kelly carpets		
GPS co-ordinates (ITM):	714954.15, 736363.46		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.3	11.3	11.3
pH	7.33	7.33	7.33
Electrical Conductivity (uS/cm)	743	743	743
TDS (ppt)	0.48	0.48	0.48

Water Sample Observations (field)				
Colour	Brown and dark brown, turbid	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	Gated access - pin code needed
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH04(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	3.53	Total depth (mbtoc)	6.5
SWL (mBGL)	4.02	S/P recess/above g/l (m)	-0.49
General location details:	Car park located at the back of the Brian Boru pub		
GPS co-ordinates (ITM):	714881.14, 736421.36		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.11	11.11	11.11
pH	7.29	7.29	7.29
Electrical Conductivity (uS/cm)	1,275	1,275	1,275
TDS (ppt)	0.82	0.82	0.82

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Slow recharge within well. There is limited water - well was pumped dry three to four times		
Free Product	No			
Hydrocarbon Sheen	Slight			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH04(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	6.74	Total depth (mbtoc)	13.5
SWL (mBGL)	7.04	S/P recess/above g/l (m)	-0.3
General location details:	Car park located at the back of the Brian Boru pub		
GPS co-ordinates (ITM):	714881.14, 736421.36		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.33	10.33	10.33
pH	7.49	7.49	7.49
Electrical Conductivity (uS/cm)	975	975	975
TDS (ppt)	0.63	0.63	0.63

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Slow recharge within well. There is limited water - well was pumped dry three to four times		
Free Product	No			
Hydrocarbon Sheen	Slight			



Environmental setting:	Access constraints:
Urban	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EUROFINS 21-01104

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH06	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	11.014	Total depth (mbtoc)	15
SWL (mBGL)	11.079	S/P recess/above g/l (m)	-0.065
General location details:	Park - gaelic pitch of St. Vincent's School		
GPS co-ordinates (ITM):	714786.4, 736479.41		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.21	11.21	11.21
pH	7.56	7.56	7.56
Electrical Conductivity (uS/cm)	624	624	624
TDS (ppt)	0.40	0.40	0.40

Water Sample Observations (field)			
Colour	Brown to merky, turbid	Capped at ground level	Y / N Capped flush to ground level
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes	Burnt patch on grass beside well	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Park and recreational	Yes, contact school secretary to gain access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EUROFINS 21-01104

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH09	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.391	Total depth (mbtoc)	12
SWL (mBGL)	7.469	S/P recess/above g/l (m)	-0.078
General location details:	Park - gaelic pitch of St. Vincent's School		
GPS co-ordinates (ITM):	714644.32, 736604.33		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.44	10.44	10.44
pH	7.55	7.55	7.55
Electrical Conductivity (uS/cm)	672	672	672
TDS (ppt)	0.43	0.43	0.43

Water Sample Observations (field)			
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N Capped flush to ground level
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Park and recreational	Yes, contact school secretary to gain access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EUROFINS 21-01104

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH11	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	5.79	Total depth (mbtoc)	10.5
SWL (mBGL)	5.89	S/P recess/above g/l (m)	-0.1
General location details:	Car park located at the entrance of Glassnevin Cementary		
GPS co-ordinates (ITM):	714468.46, 736817.41		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.2	11.2	11.2
pH	7.6	7.6	7.6
Electrical Conductivity (uS/cm)	825	825	825
TDS (ppt)	0.54	0.54	0.54

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Moderate recharge. Limited water in well. Well pumped dry three times		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			

Groundwater Monitoring Record Sheet

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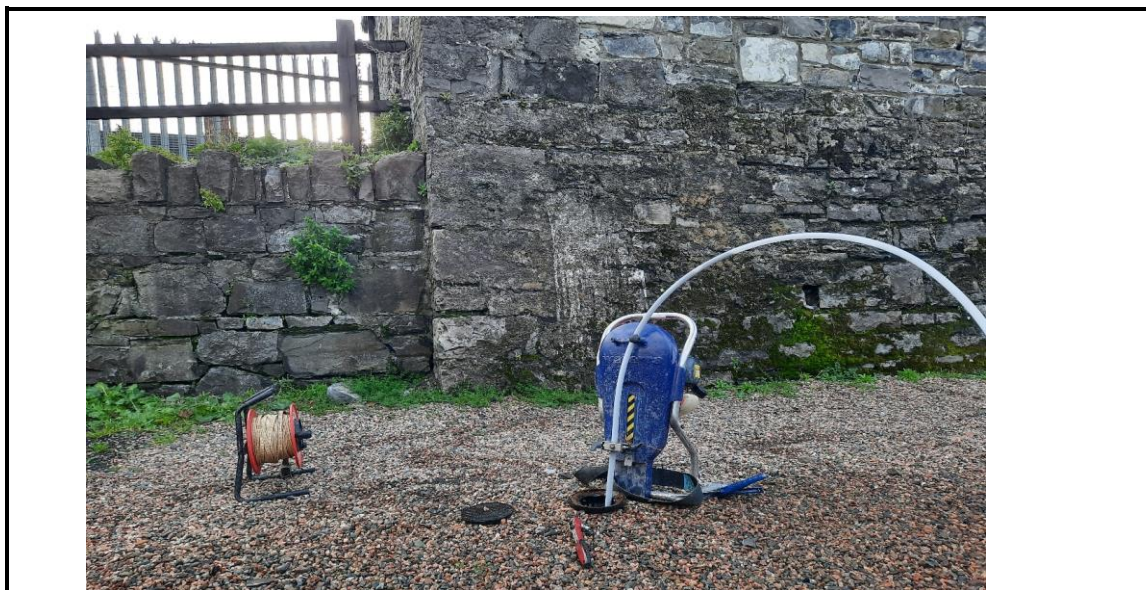
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	14/01/2021		
Weather Conditions:	Overcast and dry		
GW location ID:	GBH13	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	6.98	Total depth (mbtoc)	15
SWL (mBGL)	7.08	S/P recess/above g/l (m)	-0.1
General location details:	Along the Royal Canal located within the Cabra Kayak Club		
GPS co-ordinates (ITM):	714737.33, 736429.85		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/01/2021	Time: -
Last Full Calibration	January_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.38	10.38	10.38
pH	7.61	7.61	7.61
Electrical Conductivity (uS/cm)	640	640	640
TDS (ppt)	0.42	0.42	0.42

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Capped flush to ground level
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Cartaker mentioned that this area was an old dumping ground at this site and that the building experienced a fire in the past.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	Yes, contact caretaker of the kayak club to gain access
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Sample taken:	Y / N	Laboratory Report Ref:	EUROFINS 21-01104
Yes			