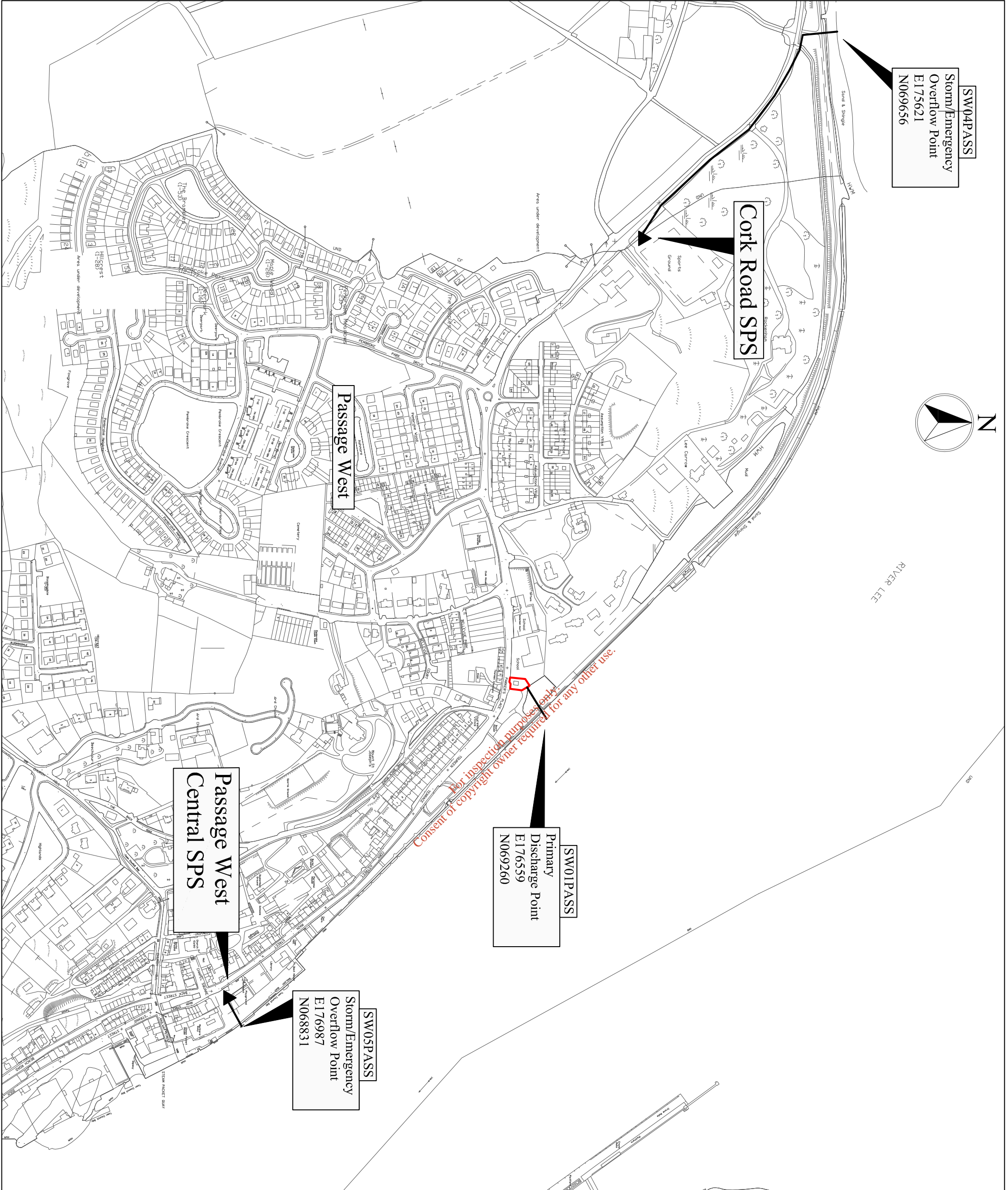
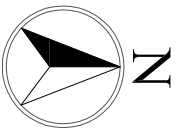


SW04PASS
Storm/Emergency
Overflow Point
E175621
N069656



SW01PASS
Primary
Discharge Point
E176559
N069260

SW05PASS
Storm/Emergency
Overflow Point
E176987
N068831

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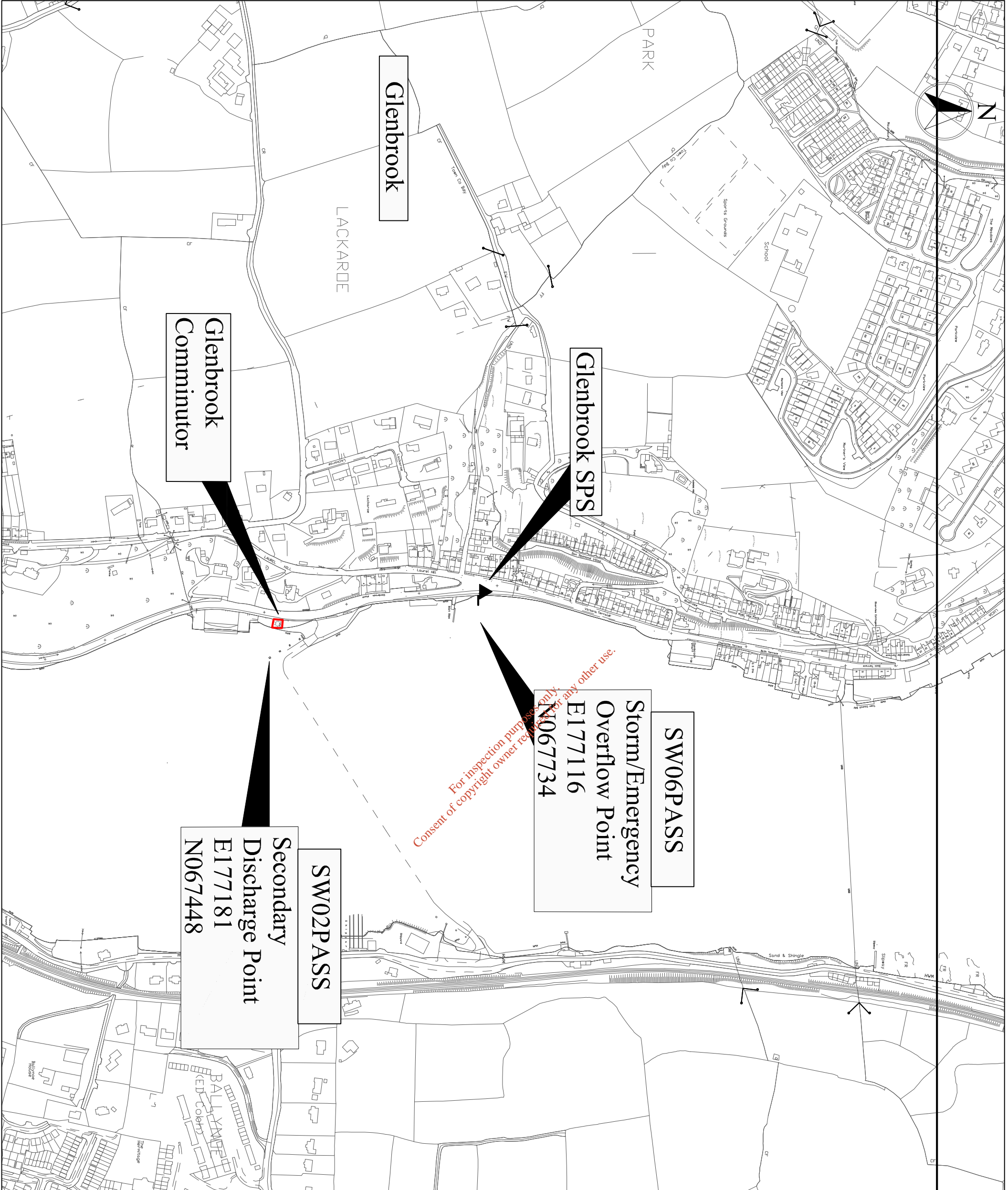


N. O'Keefe, B.Eng., C.Eng., Eur.Ing., F.I.E.I., M.I.C.E.,
 Acting County Engineer
 County Hall, Cork.
 P. Power
 Director of Services
 South Cork.

Project:
EPA LICENCE APPLICATION
 Passage West / Monkstown

Title:
Attachment Section C.1.
Location of Pumping Stations
 { 1 of 3 }

Designed:	Checked:	Scale:	Drawing No.
BOL	BQ	1:5,000	Map 19
Drawn:	Approved:	Date:	Revision 1
BOL	BQ	23/06/09	



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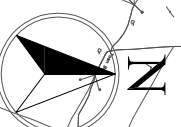
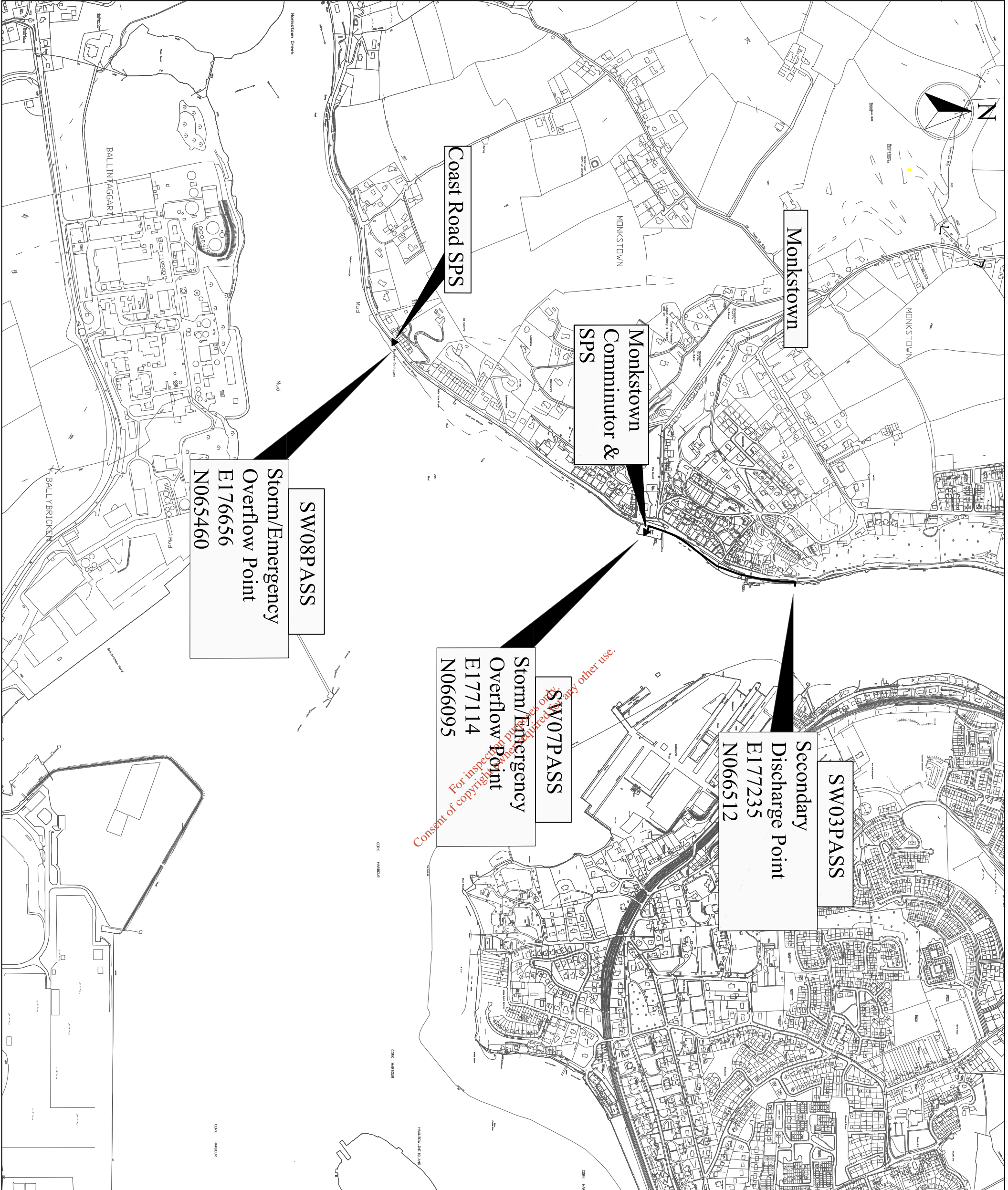
N. O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,
 Acting County Engineer
 County Hall, Cork.

P. Power
 Director of Services
 South Cork.

Project:
 EPA LICENCE APPLICATION
 Passage West / Monkstown

Title:
 Attachment Section C.1. - Location
 of Pumping Stations {2 of 3}

Designed:	Checked:	Scale:	Drawing No.
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Drawn:	Approved:	Date:	Revision
BOL	BQ	23/06/09	1



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South Cork Division

N. O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,
Acting County Engineer
County Hall, Cork.

P. Power
Director of Services
South Cork.

Project:
EPA LICENCE APPLICATION
Passage West / Monkstown

Title:
Attachment Section C.1. - Location of Pumping Stations {3of3}

Designed:	Checked:	Scale:	Drawing No.
BOL	BQ	1:10,000	Map 21 -
Drawn:	Approved:	Date:	Revision 1
BOL	BQ	23/06/09	

TABLE D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS - REVISED
(Primary Discharge Point)

Discharge Point Code: SW01PASS

Source of Emission:	Passage West/Monkstown Agglomeration
Location:	Cork Lower Harbour Townland Pembroke
Grid Ref. (12 digit, 6E, 6N):	E176559, N069260
Name of receiving waters:	River Lee West Passage, Cork Harbour
River Basin District:	South Western River Basin District
Designation of receiving waters:	Sensitive Waters
Flow rate in receiving waters:	Tidal _____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitted			
Normal/day	811 m ³	Maximum/day	1187 m ³
Maximum rate/hour	Not Available	Period of emission (avg)	____ 60 ____ min/hr ____ 24 ____ hr/day ____ 365 ____ day/yr
Dry Weather Flow	0.00939 m ³ /sec		

Note: DWF is estimated. Discharges include seawater intrusion.

TABLE D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS - REVISED
 (Secondary Discharge Point) (1 table per discharge point)
Discharge Point Code: SW02PASS

Source of Emission:	Passage West/Monkstown Agglomeration
Location:	Cork Lower Harbour Townland Lackaroe
Grid Ref. (12 digit, 6E, 6N):	E177181, N067448
Name of receiving waters:	River Lee West Passage, Cork Harbour
River Basin District:	South Western River Basin District
Designation of receiving waters:	Sensitive
Flow rate in receiving waters:	Tidal _____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitted			
Normal/day	680m ³	Maximum/day	730 m ³
Maximum rate/hour	Not Available	Period of emission (avg)	<u>60</u> min/hr <u>24</u> hr/day <u>365</u> day/yr
Dry Weather Flow	0.00752		

Note: Flows include seawater intrusion.

REVISION 01

TABLE D.1(ii)(a): EMISSIONS TO SURFACE/GROUND WATERS - REVISED
(Secondary Discharge Point) (1 table per discharge point)
Discharge Point Code: SW03PASS

Source of Emission:	Passage West/Monkstown Agglomeration
Location:	Cork Lower Harbour Townland Monkstown
Grid Ref. (12 digit, 6E, 6N):	E177235, N066512
Name of receiving waters:	River Lee West Passage, Cork Harbour
River Basin District:	South Western River Basin District
Designation of receiving waters:	Sensitive
Flow rate in receiving waters:	Tidal _____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow

Emission Details:

(i) Volume emitted			
Normal/day	619 m ³	Maximum/day	Not Available
Maximum rate/hour	Not Available	Period of emission (avg)	____ 60 ____ min/hr ____ 24 ____ hr/day ____ 365 ____ day/yr
Dry Weather Flow	0.00683 m ³ /sec		

Note: DWF is estimated. Discharges include seawater intrusion.

Table E.4 – Sampling Data

Passage West Outfall - SW01					Glenbrook Outfall - SW02					Monkstown Outfall at Monkstown Pumping station - SW03				
Sample Date	7/8/2008				Sample Date	7/8/2008	Average	Kg/Day	Kg/Year	Sample Date	7/8/2008			
Sample	Outfall	Average	Kg/Day	Kg/Year	Sample	Outfall				Sample	Outfall	Average	Kg/Day	Kg/Year
Flow M ³ /Day	811	811	*	*	Flow M ³ /Day	680	680	*	*	Flow M ³ /Day	618	618	*	*
pH	7.9	7.9	*	*	pH	7.6	7.9	*	*	pH	7.4	7.4	*	*
Temperature °C	*	*	*	*	Temperature °C	*	*	*	*	Temperature °C	*	*	*	*
Cond 20°C	584	584	*	*	Cond 20°C	2530	2530	*	*	Cond 20°C	13070	13070	*	*
SS mg/L	192	192	155.712	56834.88	SS mg/L	83	83	56.44	20600.6	SS mg/L	75	75	46.35	16917.75
NH ₃ mg/L	22.4	22.4	18.1664	6630.736	NH ₃ mg/L	16.6	16.6	11.288	4120.12	NH ₃ mg/L	8.8	8.8	5.4384	1985.016
BOD mg/L	152.5	152.5	123.6775	45142.29	BOD mg/L	87.6	87.6	59.568	21742.32	BOD mg/L	61.6	61.6	38.0688	13895.11
COD mg/L	552	552	447.672	163400.3	COD mg/L	117	117	79.56	29039.4	COD mg/L	247	247	152.646	55715.79
TN mg/L	32.414	32.414	26.28775	2567.4	TN mg/L	60.14	60.14	40.8952	2567.4	TN mg/L	26.559	26.559	16.41346	5990.914
Nitrite mg/L	0.014	0.014	0.011354	4.14421	Nitrite mg/L	3.24	3.24	2.2032	804.168	Nitrite mg/L	0.259	0.259	0.160062	58.42263
Nitrate mg/L	<1.78	<1.78	<1.44358	<526.9067	Nitrate mg/L	8.8	8.8	5.984	2184.16	Nitrate mg/L	1	1	0.618	225.57
TP mg/L	4.95	4.95	4.01445	1465.274	TP mg/L	2.49	2.49	1.6932	618.018	TP mg/L	1.81	1.81	1.11858	408.2817
O-PO4-P mg/L	2.82	2.82	2.28702	834.7623	O-PO4-P mg/L	2.05	2.05	1.394	508.81	O-PO4-P mg/L	2.25	2.25	1.3905	507.5325
SO4 mg/L	43.6	43.6	35.3596	12906.25	SO4 mg/L	128.6	128.6	87.448	31918.52	SO4 mg/L	624.6	624.6	386.0028	140891
Phenols µg/L	50	50	*	*	Phenols µg/L	50	50	*	*	Phenols µg/L	150	150	*	*
Atrazine µg/L	<0.01	<0.01	<0.00001	<0.00365	Atrazine µg/L	<0.02	<0.02	<0.00001	<0.00365	Atrazine µg/L	<0.03	<0.03	<0.00002	<0.00730
Dichloromethane µg/L	<5.0	<5.0	<0.00406	<1.48190	Dichloromethane µg/L	<5.0	<5.0	<0.00340	<1.241	Dichloromethane µg/L	<5.0	<5.0	<0.00309	<1.12785
Simazine µg/L	<0.01	<0.01	<0.0001	<0.00365	Simazine µg/L	<0.02	<0.02	<0.00001	<0.00365	Simazine µg/L	<0.03	<0.03	<0.00002	<0.00730
Toluene µg/L	<0.2	<0.2	<0.00016	<0.05840	Toluene µg/L	<0.2	<0.2	<0.00014	<0.05110	Toluene µg/L	0.7	0.7	0.00043	0.15695
Tributyltin µg/L	<0.05	<0.05	<0.00004	<0.01460	Tributyltin µg/L	<0.05	<0.05	<0.00003	<0.01095	Tributyltin µg/L	<0.05	<0.05	<0.00003	<0.01095
Xylenes µg/L	<0.2	<0.2	<0.00016	<0.05840	Xylenes µg/L	<0.2	<0.2	<0.00014	<0.05110	Xylenes µg/L	0.7	0.7	0.00043	0.15695
Arsenic µg/L	<2.0	<2.0	<0.00162	<0.59130	Arsenic µg/L	<2.0	<2.0	<0.00136	<0.49640	Arsenic µg/L	3.1	3.1	0.00192	0.7008
Chromium ug/L	<10	<10	<0.00811	<2.96015	Chromium ug/L	<10	<10	<0.00680	<2.482	Chromium ug/L	<10	<10	<0.00618	<2.25570
Copper ug/L	45.4	45.4	0.036819	13.43908	Copper ug/L	39.2	45.4	0.030872	11.26828	Copper ug/L	88.8	88.8	0.05488	20.0312
Cyanide µg/L	<5.0	<5.0	<0.00406	<1.48190	Cyanide µg/L	<5	<5.0	<0.24480	<1.241	Cyanide µg/L	7	7	0.00433	1.58045
Fluoride ug/l	360	360	0.29196	106.5654	Fluoride ug/l	290	360	0.07812	28.5138	Fluoride ug/l	380	380	0.23484	85.7166
Lead ug/L	<3	<3	<0.00243	<0.88695	Lead ug/L	4.1	<3	<0.00204	<0.74460	Lead ug/L	<3	<3	<0.00185	<0.67525
Nickel ug/L	<5	<5	<0.00406	<1.48190	Nickel ug/L	<5	<5	<0.00340	<1.241	Nickel ug/L	<5	<5	<0.00309	<1.12785
Zinc ug/L	53	53	0.04298	15.6877	Zinc ug/L	13.2	53	0.03604	13.1546	Zinc ug/L	<10	<10	<0.00618	<2.25570
Boron ug/L	<200	<200	0.1622	<59.20300	Boron ug/L	220	<200	<0.13600	<49.64	Boron ug/L	1460	1460	0.90228	329.3322
Cadmium ug/L	<1	<1	<0.00081	<0.29565	Cadmium ug/L	<1	<1	<0.00068	<0.24820	Cadmium ug/L	<1	<1	<0.00062	<0.22630
Mercury µg/L	<0.2	<0.2	<0.00016	<0.05840	Mercury µg/L	<0.2	<0.2	<0.00014	<0.05110	Mercury µg/L	<0.2	<0.2	0.00012	0.0438
Selenium µg/L	<2.0	<2.0	<0.00162	<0.59130	Selenium µg/L	<2.0	<2.0	<0.00136	<0.49640	Selenium µg/L	6.67	6.67	0.00412	1.5038
Barium ug/L	24.7	24.7	0.020032	7.311571	Barium ug/L	22.5	24.7	0.016796	6.13054	Barium ug/L	27.5	27.5	0.016995	6.203175
Estimated average flow			sample matrix interference in test ; results invalid											

Accreditation Certificate

Cork County Council

Wastewater Testing Laboratory, Inniscarra, Co. Cork

Testing Laboratory

Registration number: 016T


is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2nd Edition "General Requirements for the Competence of Testing and Calibration Laboratories" (This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)

Date of award of accreditation: 01:10:2002

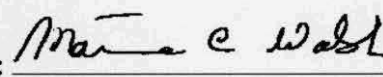
Date of last renewal of accreditation: 20:09:2007

Expiry date of this certificate of accreditation: 01:10:2012

This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager: 

Mr Tom Dempsey

Chairperson: 

Dr Máire Walsh

Issued on 23 June 2008

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:
Category A

CORK COUNTY COUNCIL

Chemistry Testing Laboratory

Initial Registration Date : 25-April-1991
Postal Address: Waste Water Laboratory
(Address of other locations as they apply) Inniscarra
Co. Cork
Telephone: +353 (21) 4532700
Fax: +353 (21) 4532777
E-mail:
Contact Name: Ms M Cherry
Facilities: Normally not available for Public testing

Schedule of Accreditation



Permanent Laboratory:
Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

Testing and Calibration Categories:

- Category A:** Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.
- Category C:** Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.
- Category D:** Site calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using
- (a) portable test equipment
 - (b) a site laboratory
 - (c) a mobile laboratory or
 - (d) equipment from a mobile or site laboratory

Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

Glossary of Terms

Facilities:

- Public calibration/testing service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration/testing:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration/testing:** Unavailable for public calibration/testing more often than not.

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

Scope of Accreditation



Cork County Council
Chemical Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9)	Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	Waters	Chemical analysis:	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1)
.01	Waters for domestic purposes <i>Surface and ground waters</i>	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
		pH 2 - 12	CP No. 5 Electrometry
		Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
		Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
		Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
		Ammonia 0.1 - 1,000 mg/l NH ₃ - N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO:1981

Scope of Accreditation



Cork County Council
Chemical Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9)	Type of test/properties measured	Standard specifications
Materials/products tested	Range of measurement	Equipment/techniques used
766 Waters		
.01 Waters for domestic purposes <i>Surface and ground waters</i>	Orthophosphate as P (Konelab) Range: 0.005-1.00 mg O-PO4 P/L High Range: 1000 mg O-PO4 P/L Method Detection Limit: 0.02 mg O-PO4 P/L Chloride (Konelab) Range: 25-250 mg/L Cl- High Range Conc.: 86,000 mg/L Cl- Method Detection Limit: 25 mg/L Cl- Sulphate (Konelab) Range: 30-250 mg/L SO4/L High Range Conc.: 35,000 mg/L SO4/L Method Detection Limit: 30 mg SO4/L	CP No. 23 Ascorbic Acid Method CP No. 24 Ferricyanide Method CP No. 25 Documented in-house method by Konelab based on method for the examination of waters and waste waters and associated material HMSO: 1981

Scope of Accreditation



Cork County Council
Chemical Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9)	Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	Waters	Chemical analysis	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1)
.05	Trade Wastes <i>Industrial effluents</i> <i>Urban Wastewater</i> <i>Municipal Wastewater</i>	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
		pH 2 - 12	CP No. 5 Electrometry
		Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
		Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
		Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
		Ammonia 0.1 - 1,000 mg/l NH3-N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO: 1981.

Notes
 1. APHA American Public Health Association, USA, 21st Edition

Scope of Accreditation

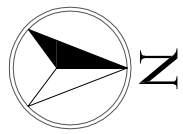


Cork County Council
Chemical Testing Laboratory

Permanent Laboratory:
 Category A

INAB Classification number (P9)	Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	Waters	Chemical analysis	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1)
.05	Trade Wastes <i>Industrial effluents</i> <i>Urban Wastewater</i> <i>Municipal Wastewater</i>	Orthophosphate as P (Konelab) Range: 0.005 - 1.00 mg O-PO4 P/L High Range: 1000 mg O-PO4 P/L Method Detection Limit: 0.02 mg O-PO4 P/L	CR No. 1 Membrane electrode CP No. 23 Ascorbic Acid Method
		Chloride (Konelab) Range: 25-250 mg/L Cl- High Range Conc.: 86,600 mg /L Cl- Method Detection Limit: 25mg / L Cl-	CP No. 24 Ferricyanide Method
		Sulphate (Konelab)) Range: 30-250 mg/L SO4 /L High Range Conc.: 35,000 mg/L SO4 /L Method Detection Limit: 30 mg SO4 /L	CP No. 25 Documented in-house method by Konelab based on method for the examination of waters and waste waters and associated material HMSO: 1981

Notes
 1. APHA American Public Health Association, USA, 21st Edition



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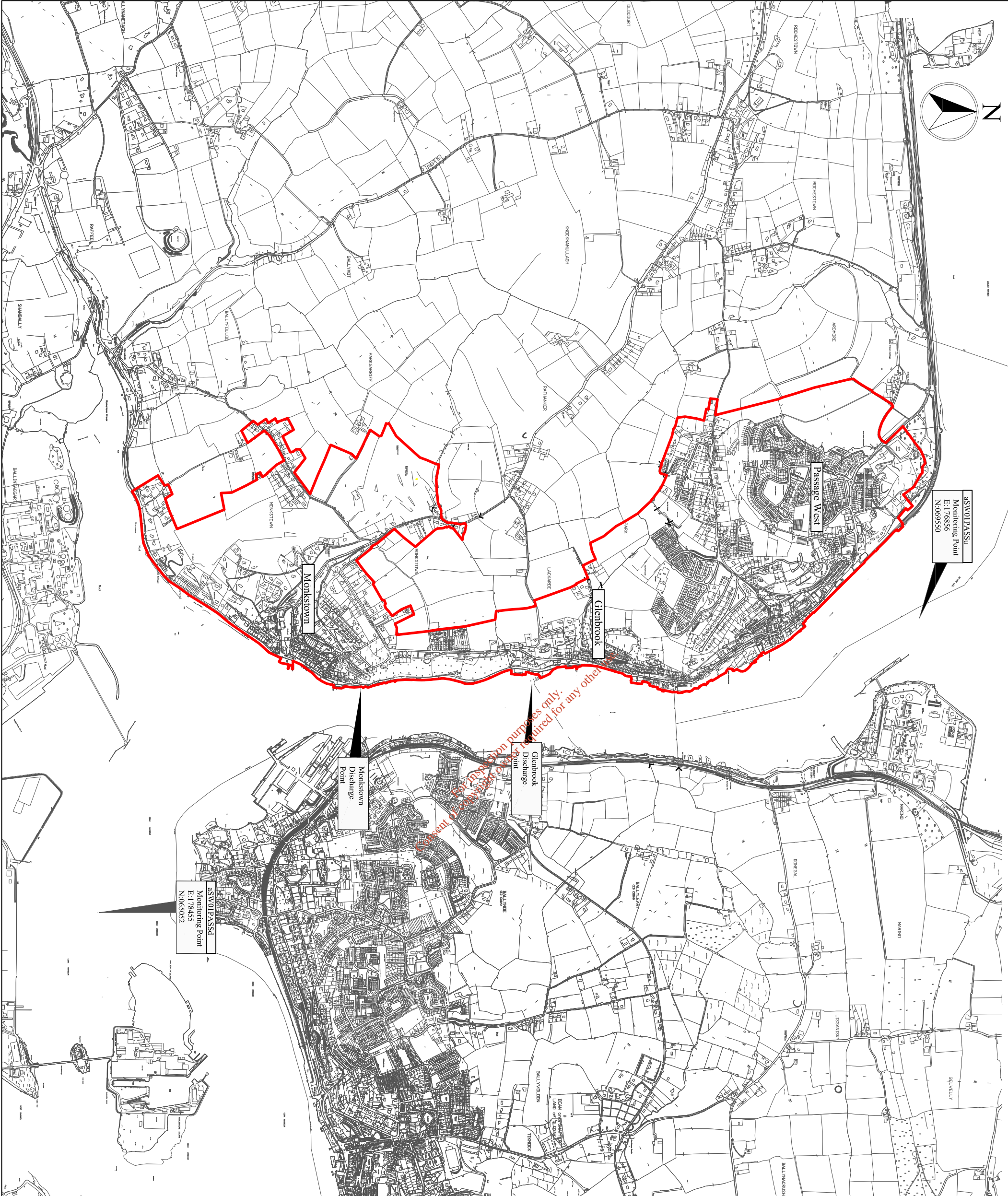
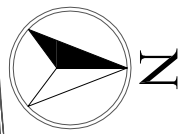
N. O'Keeffe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,
Acting County Engineer
County Hall, Cork.

P. Power
Director of Services
South Cork.

Project:
EPA LICENCE APPLICATION
Passage West / Monkstown

Title:
**Attachment Section E2
Sampling Points**

Designed: BOL	Checked: BQ	Scale: 1:20,000	Drawing No. Map 22 -
Drawn: BOL	Approved: BQ	Date: 23/06/09	Revision 1



ASW01PASSu
Monitoring Point
E:176856
N:069550

ASW01PASSd
Monitoring Point
E:178455
N:065052

Glenbrook
Discharge
Point

Monkstown
Discharge
Point

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Cork County Council
South Cork Division

N. O'Keefe, B.Eng., C.Eng., Eur. Ing., F.I.E.I., M.I.C.E.,
Acting County Engineer
County Hall, Cork.

P. Power
Director of Services
South Cork.

Project:
EPA LICENCE APPLICATION
Passage West / Monkstown

Title:
Attachment Section F1
Monitoring Points

Designed:	Checked:	Scale:	Drawing No.
BOL	BQ	1:20,000	Map 23
Drawn:	Approved:	Date:	Revision
BOL	BQ	23/06/09	1