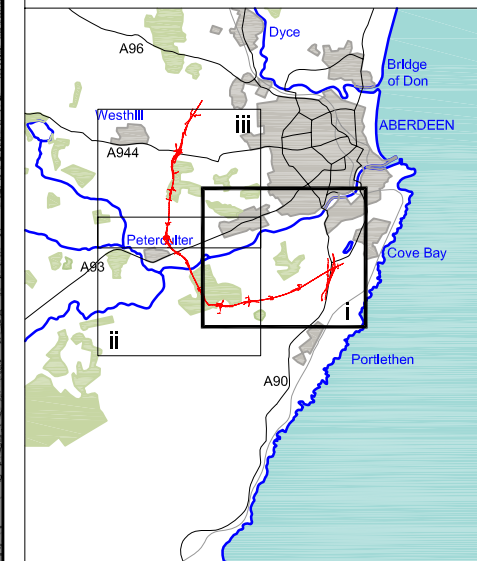


FIGURE 24.7ci



- LEGEND**
- Proposed Centreline of Route (Engineering Profile 04/05/07)
 - Direction of Flow
 - Watercourses
 - Waterbody
 - Watercourses Outside Model Extent
 - Waterbody Outside Model Extent
 - Point of Interest
 - Proposed AWPR Outfall

* There are no published EQS values for the suspended solids. Evidence was taken from SNH on the tolerance of freshwater pearl mussels and set at 30mg/l

Rev	Date	Purpose of Revision	Drwn	Chkd	Appd

JE JACOBS
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 Tel: 0141 204 2511 Fax: 0141 226 3109
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Client: **Aberdeen Western Peripheral Route**

Project: **Aberdeen Western Peripheral Route Environmental Statement, Part C - Southern Leg**

Title: **Water Quality Modelling - Without Mitigation, Potential Impact Sheet 1 of 3**

Drawing Status	FINAL	Revisions	
JB No.	0010332	Date	July 2007
Figure No.	FIGURE 24.7ci	Approved	SH
Scale	1:25,000	Checked	DR

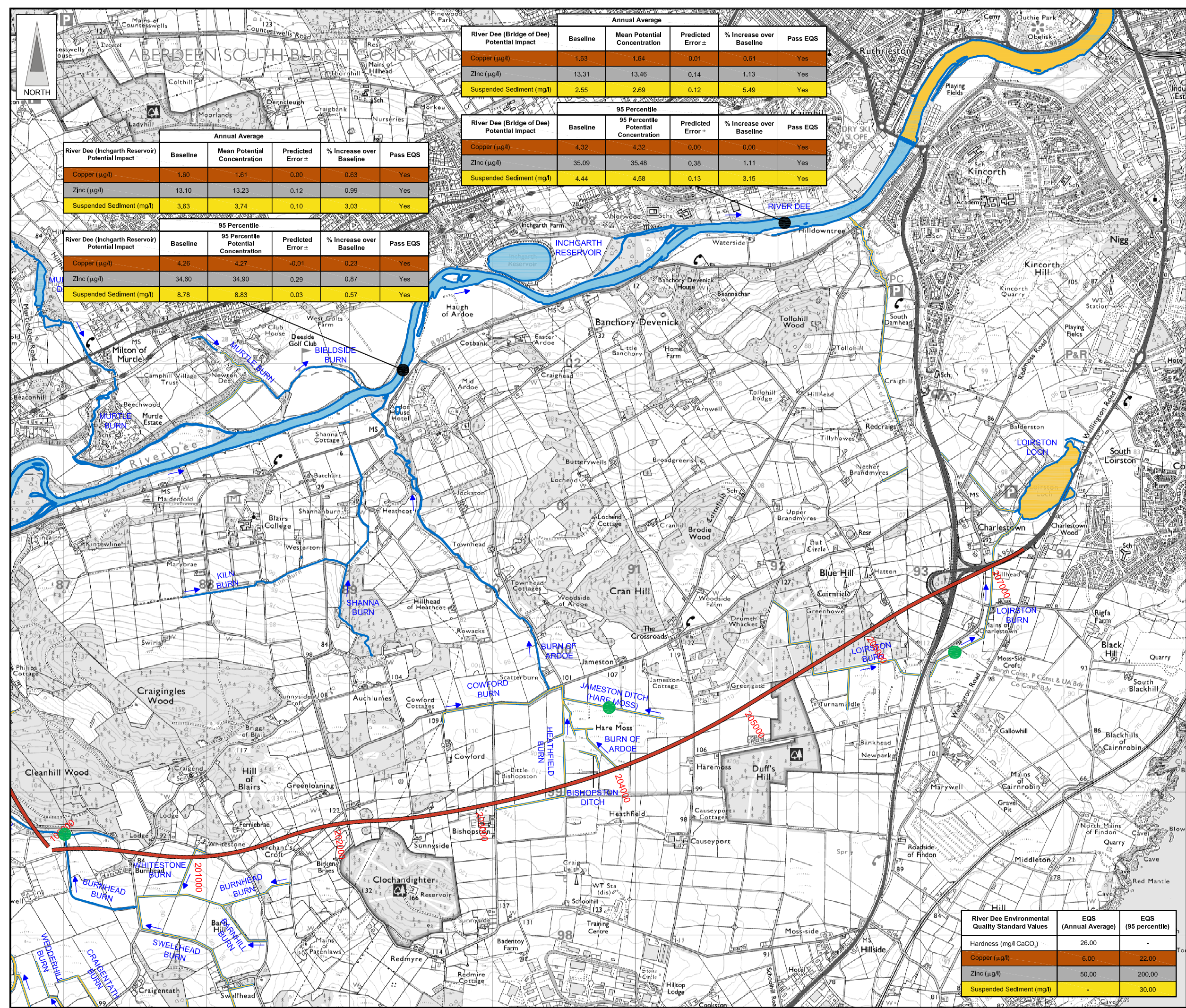
River Dee Environmental Quality Standard Values	EQS (Annual Average)	EQS (95 percentile)
Hardness (mg/l CaCO ₃)	26.00	-
Copper (µg/l)	6.00	22.00
Zinc (µg/l)	50.00	200.00
Suspended Sediment (mg/l)	-	30.00

River Dee (Bridge of Dee) Potential Impact	Annual Average				
	Baseline	Mean Potential Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	1.63	1.64	0.01	0.61	Yes
Zinc (µg/l)	13.31	13.46	0.14	1.13	Yes
Suspended Sediment (mg/l)	2.55	2.69	0.12	5.49	Yes

River Dee (Bridge of Dee) Potential Impact	95 Percentile				
	Baseline	95 Percentile Potential Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	4.32	4.32	0.00	0.00	Yes
Zinc (µg/l)	35.09	35.48	0.38	1.11	Yes
Suspended Sediment (mg/l)	4.44	4.58	0.13	3.15	Yes

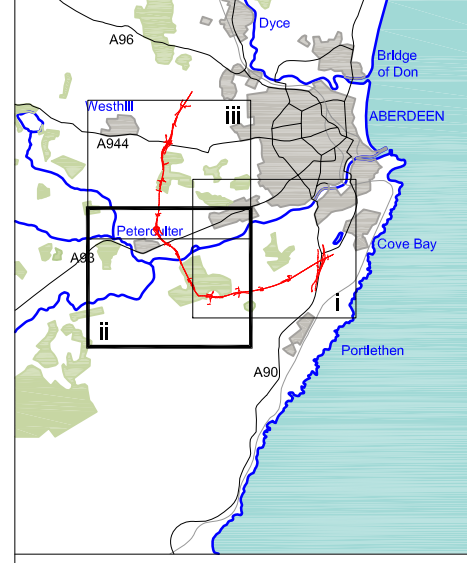
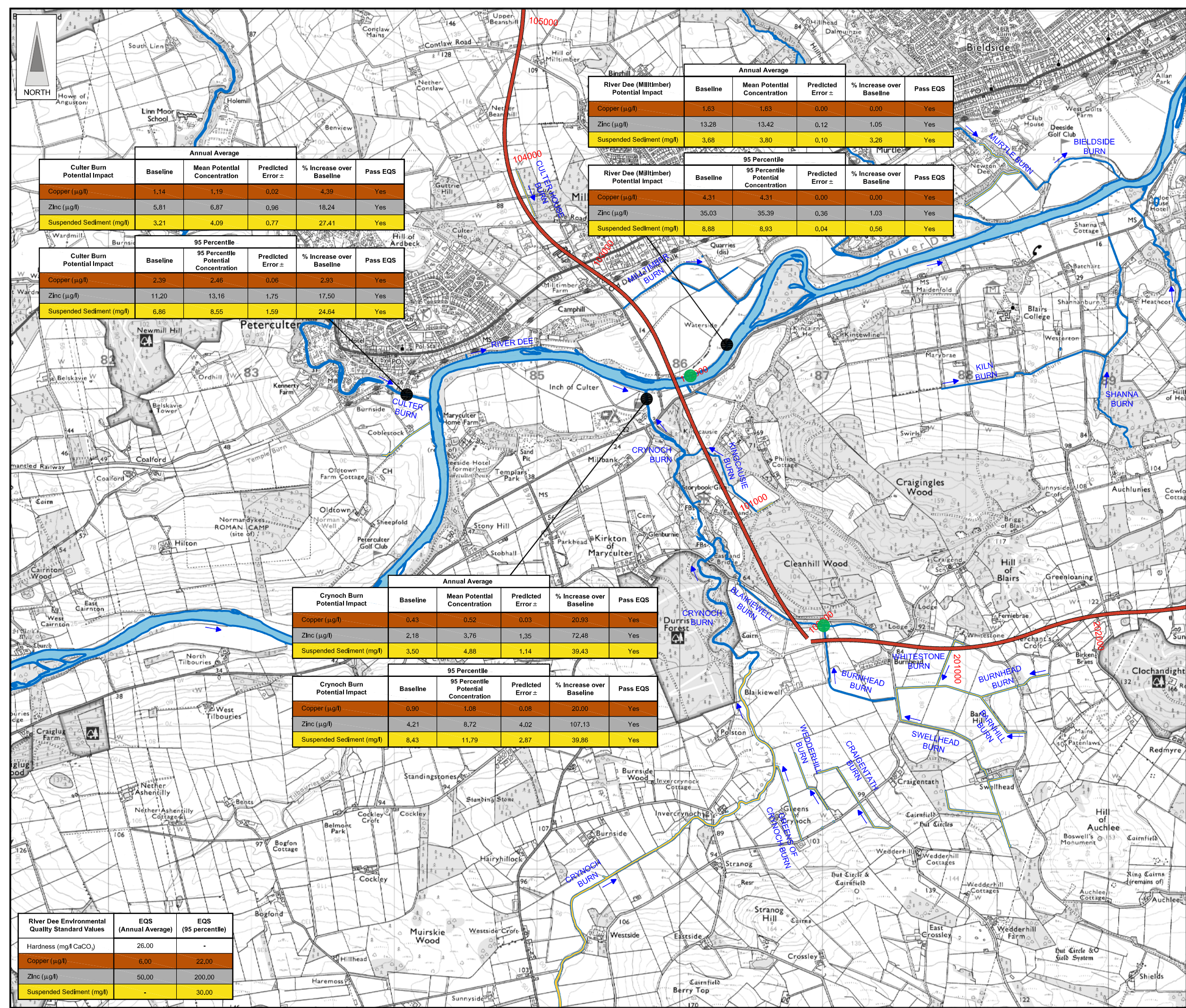
River Dee (Inchgarth Reservoir) Potential Impact	Annual Average				
	Baseline	Mean Potential Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	1.60	1.61	0.00	0.63	Yes
Zinc (µg/l)	13.10	13.23	0.12	0.99	Yes
Suspended Sediment (mg/l)	3.63	3.74	0.10	3.03	Yes

River Dee (Inchgarth Reservoir) Potential Impact	95 Percentile				
	Baseline	95 Percentile Potential Concentration	Predicted Error ±	% Increase over Baseline	Pass EQS
Copper (µg/l)	4.26	4.27	-0.01	0.23	Yes
Zinc (µg/l)	34.60	34.90	0.29	0.87	Yes
Suspended Sediment (mg/l)	8.78	8.83	0.03	0.57	Yes



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FIGURE 24.7cii



- LEGEND**
- Proposed Centreline of Route (Engineering Profile 04/05/07)
 - Direction of Flow
 - Watercourses
 - Waterbody
 - Watercourses Outside Model Extent
 - Waterbody Outside Model Extent
 - Point of Interest
 - Proposed AWPR Outfall

* There are no published EQS values for the suspended solids. Evidence was taken from SNH on the tolerance of freshwater pearl mussels and set at 30mg/l

Rev	Date	Purpose of Revision	Drawn	Checked	Approved

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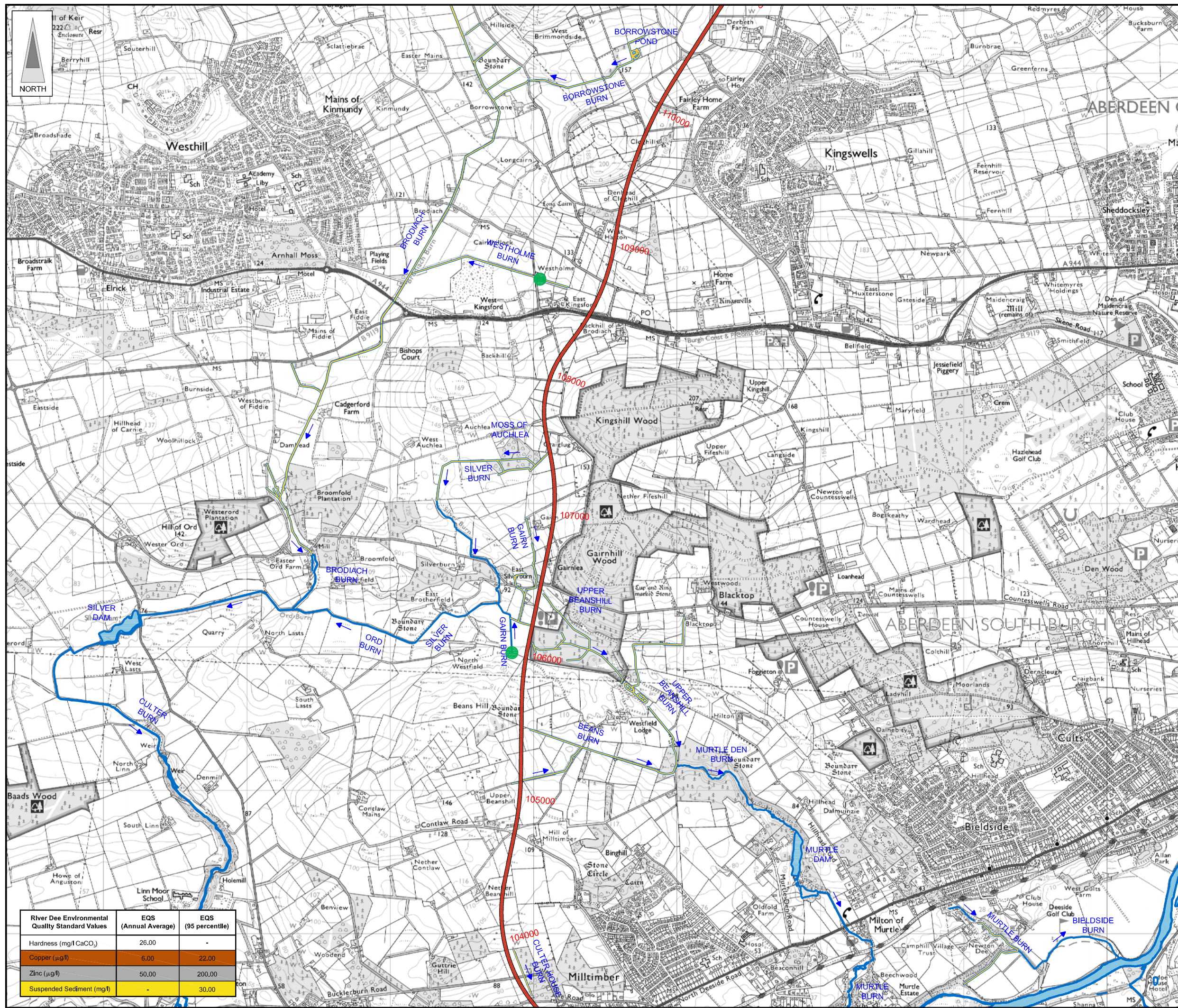
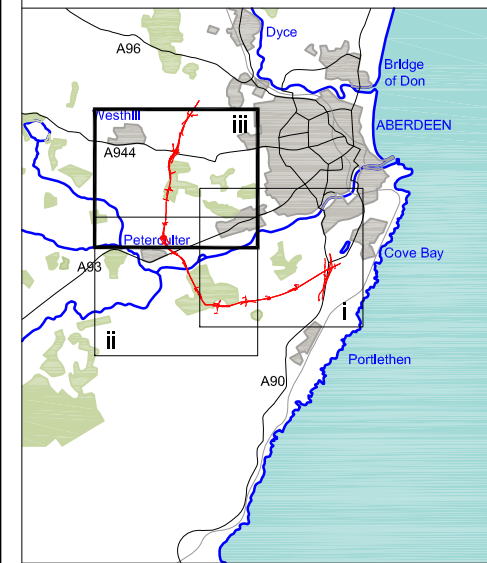
Client: **Aberdeen Western Peripheral Route**

Project: **Aberdeen Western Peripheral Route Environmental Statement, Part C - Southern Leg**

Title: **Water Quality Modelling - Without Mitigation, Potential Impact Sheet 2 of 3**

Drawing Status	FINAL	Revisions	
Job No.	0010332	Date	July 2007
Figure No.	FIGURE 24.7cii	Checked	DR
Scale	1:25,000	Approved	SH

FIGURE 24.7cii



- LEGEND**
- Proposed Centrelines of Route (Engineering Profile 04/05/07)
 - Direction of Flow
 - Watercourses
 - Waterbody
 - Watercourses Outside Model Extent
 - Waterbody Outside Model Extent
 - Point of Interest
 - Proposed AWPR Outfall

* There are no published EQS values for the suspended solids. Evidence was taken from SNH on the tolerance of freshwater pearl mussels and set at 30mg/l

Rev	Date	Purpose of Revision	Drwn	Chkd	Appd

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Client: **Aberdeen Western Peripheral Route**

Project: **Aberdeen Western Peripheral Route Environmental Statement, Part C - Southern Leg**

Title: **Water Quality Modelling - Without Mitigation, Potential Impact Sheet 3 of 3**

Drawing Status: FINAL	Revisions:
JB No. 0010332	Date: July 2007
Figure No. FIGURE 24.7cii	Approved: SH
Scale: 1:25,000	Checked: DR
Drawn: RB	Approved: SH

River Dee Environmental Quality Standard Values	EQS (Annual Average)	EQS (95 percentile)
Hardness (mg/l CaCO ₃)	26.00	-
Copper (µg/l)	6.00	22.00
Zinc (µg/l)	50.00	200.00
Suspended Sediment (mg/l)	-	30.00