

APPENDIX A SIGNIFICANT INCIDENTS

There were 3 significant incidents since the issue of the last DtTS report as detailed below:-

AIRR Ref:	AIRR 1589	Contractor:	McNicholas		
Location:	Shandwick Place				
Project:	Utility works	Date & Time:	25/01/12		
Sub Contractor:		Contractor Reference:			
Project Manager:	Stephen Lewcock	Is the accident / incident Serious / Significant or Major?	Yes	No	
			X		
Description:	An HV cable in a potentially dangerous condition was uncovered during utility diversion works. Scottish Power were alerted, attended site and isolated the cable. McNicholas undertook additional excavation to facilitate the planned SP repair of the HV cable. On completion of this work damage was identified on a low voltage cable. Power supplies to local premises were disrupted at around 18:50. SP re-visited the site to undertake repairs to the LV cable. Supplies were restored at around 02:00am.				
Action taken by Contractor:	McNicholas have investigated the incident and concluded that both cable damages were pre-existing. Scottish Power are currently disputing this. Substantial insurance claims have been received relating to this incident.				
Action taken by Project Team (if required):	Turner & Townsend have reviewed the McNicholas investigation and have consulted Scottish Power, but have been unable to reconcile the contradictory views.				

AIRR Ref:	AIRR 1604	Contractor:	Grahams		
Location:	Murrayfield tram stop				
Project:	Infraco	Date & Time:	13/02/12 – 14:15		
Sub Contractor:	C Plan working for Cable and Wireless – Not working on the tram project.	Contractor Reference:			
Project Manager:	Tom Cotter	Is the accident / incident Serious / Significant or Major?	Yes	No	
			X		
Description:	Damage to a Scottish Power cable on the Murrayfield tram stop site caused by a utility contractor not engaged on the tram project who was on the site to investigate and locate a suspected fault within their infrastructure.				
Action taken by Contractor:	Scottish Power were called and arrived on site around 15:15 and isolated the service. Scottish Power left the site at 16:45 with all service properties connected with the exception of a set of traffic lights at the junction of Roseburn St and Westfield Rd.				
Action taken by Project Team (if required):	Turner & Townsend held discussions with BBS to review the arrangements for third party organisations undertaking work on a Tram project worksite.				

Project Report – Period 12

AIIR Ref:	AIIR 1606	Contractor:	McNicholas		
Location:	Hanover St / Princes St				
Project:	Utility works	Date & Time:	16/02/12 – 16:00 / 17:00		
Sub Contractor:		Contractor Reference:			
Project Manager:	Rob Leech	Is the accident / incident Serious / Significant or Major?	Yes	No	
Description:	Damage to 2no ducts containing virgin media fibre optic cables. CEC CCTV coverage to the centre of Edinburgh disrupted.				
Action taken by Contractor:	Virgin Media on site to repair fibre optic cables.				
Action taken by Project Team (if required):	N/A.				

Project Report – Period 12

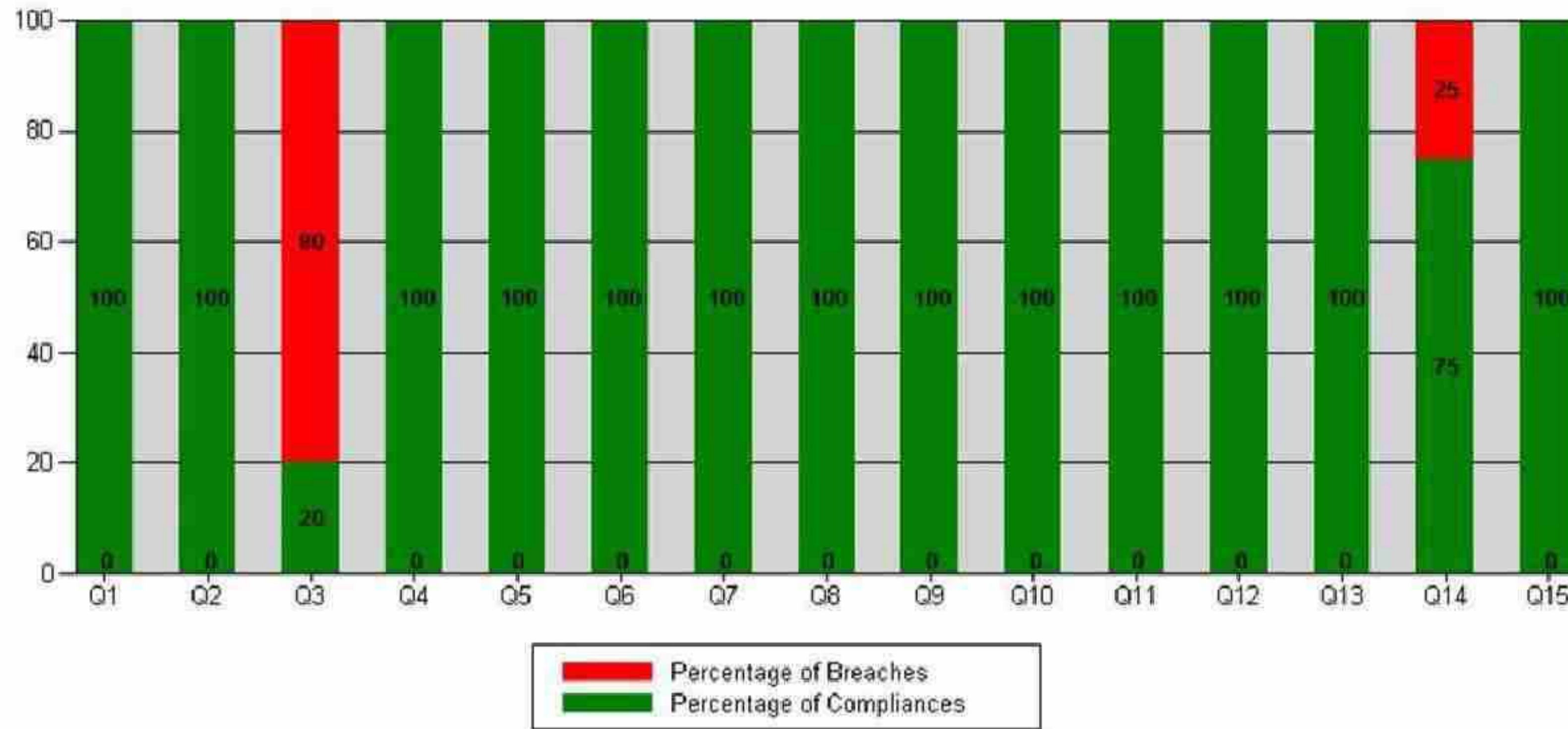
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Other Incidents

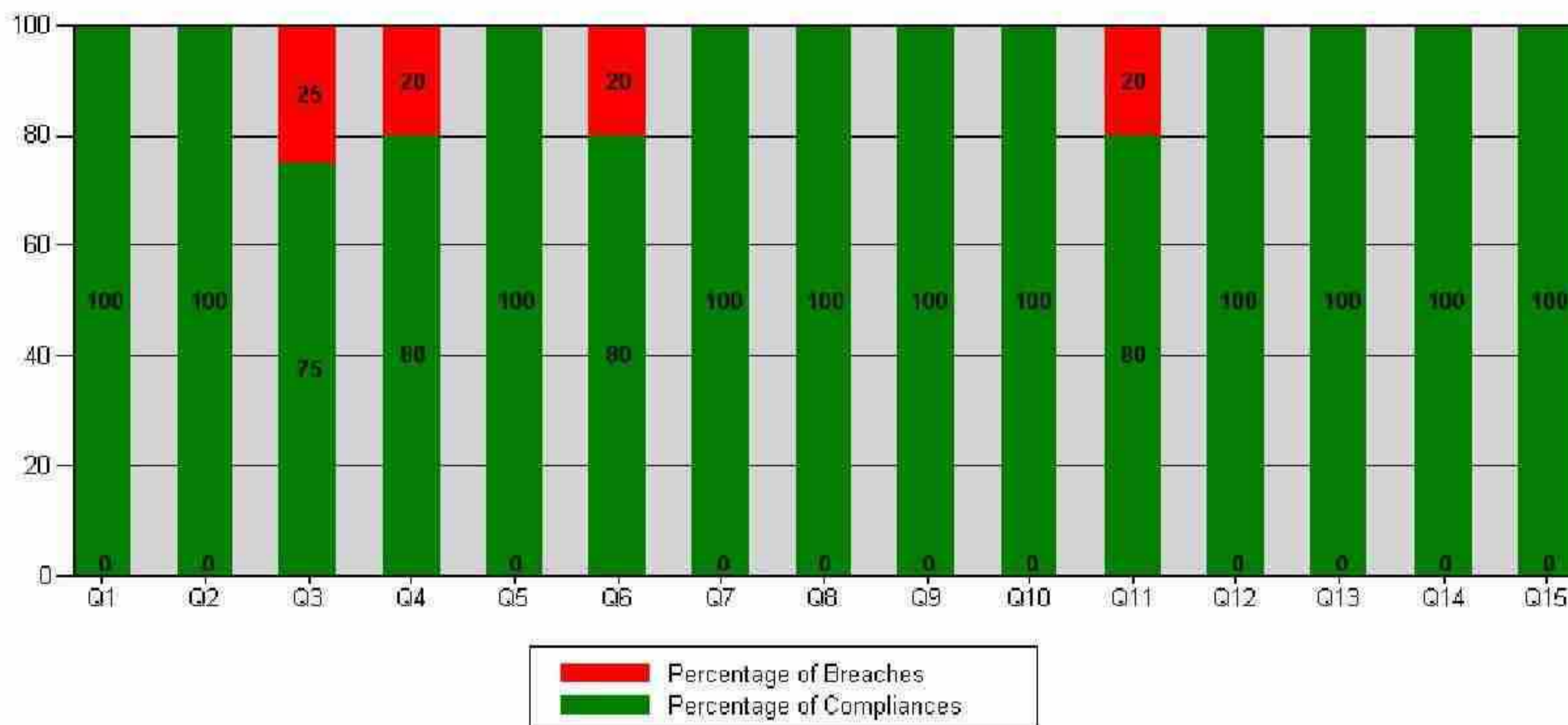
Date	Detail	Contractor	Classification	Category
26/01/2012	Diesel spill	Coffey	Environmental	Minor
26/01/2012	Cable duct cast in BT pit	McNicholas	Service damage	Minor
26/01/2012	Damage to concrete surround to ducts.	McNicholas	Service damage	Minor
27/01/2012	Manhole cover not replaced - Scotrail depot	Grahams	Near miss	Minor
27/01/2012	Security guard slipped on ice	Edinburgh Trams	Minor injury	Minor
27/01/2012	BT cable damage	McNicholas	Service damage	Minor
30/01/2012	Security guard slipped on ice	Edinburgh Trams	Minor injury	Minor
01/02/2012	Damage to sewer at Shandwick Place	McNicholas	Service damage	Minor
01/02/2012	Damage to water main supplying water features at Edinburgh Park	Coffey	Service damage	Minor
01/02/2012	Damage to sewer at Carrick Knowe	Bilfinger Berger (Severn Bore Piling)	Service damage	Minor
03/02/2012	Oil spill caused by burst hydraulic hose on item of plant.	Coffey	Environmental	Minor
07/02/2012	Container cover fell and hurt operative's foot.	DR Logistics	Minor injury	Minor
07/02/2012	MOP fell on temporary walkway.	Grahams	Member of the public	Minor
09/02/2012	Damage to an LV cable	McNicholas	Service damage	Minor
15/02/2012	Injured person was finishing concrete and caught his arm on the edge of a reinforcement sheet and sustained a small cut to his left forearm.	Crummock	Minor injury	Minor
14/02/2012	Damage to MOP jacket.	McNicholas	Member of the public	Minor
20/02/2012	Damage to water pipe to 2 Coates Crescent.	McNicholas	Service damage	Minor
21/02/2012	Damage to street lighting cable.	Bilfinger Berger	Service damage	Minor
04/02/2012	Injured person cut their finger with a stanley knife.	Class 1	Minor injury	Minor

APPENDIX B – COCP INSPECTIONS

Period 11 (previous period)



Period 12



Q1. Hours of Work
Q2. Notification
Q3. Notices
Q4. Fencing and Hoarding
Q5. Noise
Q6. Waste Management
Q7. Waste Water and Run-Off
Q8. Water
Q9. Emergency Access
Q10. Parking
Q11. Litter and general housekeeping
Q12. Dust
Q13. Smoking
Q14. Members of the Public
Q15. PPE and Behaviours

Period 12

Summary of issues and action taken

No	Date of Inspection	Location	Contractor	Question Number	Issue detail	Action taken or required to be taken by contractor	Date to rectify or rectified
1	16/02/12	Saughton	BBS	3	Public notices required at various locations.	BBS have arranged purchase of signs which will be displayed when available	To be completed by end Feb'12
2	16/02/12	Saughton	BBS	4	Improvements required to security fencing next to sub-station.	NRS arranged for Heras fencing to be provided and correctly installed.	Closed 16/02/12
3	16/02/12	Saughton	BBS	6	Rubbish stockpiled on site.	NRS arranged removal of rubbish.	Closed 16/02/12
4	16/02/12	Saughton	BBS	11	General housekeeping and litter issues.	NRS arranged site tidy up and litter removal.	Closed 16/02/12

Appendix 3 – Cost Report and Contingency Analysis

Section 1 - Project Summary

	Budget Information			Committed			Actuals		Forecast					Third Party Contributions		Variance		
	A	B	C = A+B	D	E	F = D+E	G	H	I	J	K	L	M = F+I+J+K+L	N	O = M-N	P = O - C	Q = O / C - 1	
	Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	COWD to Date	Outstanding Amount	Changes in Progress	Anticipated Change	Opportunities	Risk / Mitigated	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)	
Edinburgh Tram Programme	496,936	3,218	500,154	479,660	1,104	480,764	302,375	178,389	3,593	15,227	-7,310	11,648	503,922	-3,768	500,154	0	0.75%	
1	Infraco - Off Street	360,060	-1,328	358,732	362,501	-1,328	361,173	238,504	122,669	4,935	355	0	0	366,463	-2,388	364,075	5,343	2%
2	Infraco - On Street	38,817	627	39,444	47,384	627	48,011	3,937	44,074	-1,342	5,342	-7,310	0	44,701	-1,380	43,321	3,877	
3	Infraco - Other	0	3,218	3,218	3,218	0	3,218	662	2,556	0	0	0	0	3,218	0	3,218	0	
4	Utilities (Post Mediation)	2,912	1,800	4,712	2,912	1,800	4,712	3,101	1,611	0	9,530	0	0	14,242		14,242	9,530	202%
5	Tram vehicles	62,400	5	62,405	63,645	5	63,650	56,171	7,479	0		0	0	63,650		63,650	1,245	2%
6	Project Management (refer to CEC Report)		0	0			0						0		0		0	
7	Preparing for Operations (refer to CEC Report)		0	0			0						0		0		0	
8	Specified Risk Allowance	32,747	-1,104	31,643	0	0	0		0			11,648	11,648		11,648	-19,995	-63%	

Comments:
Report excludes Enabling work packages reported under T19 and utilities reported under T18
Contributions include amounts relevant to reported budgets only. Any further contributions are reported by CEC.

Risk:
The specified risk allowance is adjusted to match the forecast with the budget. This will be updated once a full QSRA and QCRA is completed

Actions
QCRA and QSRA required to inform the amended risk allowance

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Infraco Cost Report Section 1 - Commercial Summary

	Budget Information			Committed			Actuals		Forecast					Third Party Contributions		Variance	
	A	B	C = A + B	D	E	F = D + E	G	H	I	J	K	L	M = F + I + J + K + L	N	O = M - N	P = O - C	Q = O / C - 1
	Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	COWD to Date	Outstanding Amount	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)
Infraco Contract	398,877	2,517	401,394	413,103	-701	412,402	243,103	169,299	3,593	5,697	-7,310	0	414,382	-3,768	410,614	9,220	3.24%
Off Steet	360,060	-1,328	358,732	362,501	-1,328	361,173	238,504	122,669	4,935	355	0	0	366,463	-2,388	364,075	5,343	2.16%
00 Preliminaries and Other Items	150,408	318	150,726	150,409	318	150,727	100,911	49,816	4,541	0			155,268	0	155,268	4,542	3.01%
01 Newhaven Road to Haymarket	85,368	-1,453	83,915	87,738	-1,453	86,285	85,295	990	273	0			86,558	-318	86,240	2,325	3.15%
02 Haymarket Corridor	8,692	-20	8,672	8,692	-20	8,672	4,279	4,393	40	0			8,712	-40	8,672	0	0.46%
05 Roseburn Junction to Gogar	80,035	-188	79,847	80,105	-188	79,917	22,860	57,057	50	300			80,267	-990	79,277	-570	0.53%
06 Depot	19,979	139	20,118	19,979	139	20,118	18,257	1,861	51	25			20,194	0	20,194	76	0.38%
07 Gogar to Edinburgh Airport	15,578	-124	15,454	15,578	-124	15,454	6,902	8,552	-20	30			15,464	-1,040	14,424	-1,030	0.06%
On Street	38,817	627	39,444	47,384	627	48,011	3,937	44,074	-1,342	5,342	-7,310	0	44,701	-1,380	43,321	3,877	13.33%
00 Preliminaries and Other Items	21,837	0	21,837	21,837	0	21,837	3,294	18,543	41	0			21,878	0	21,878	41	0.19%
01 Newhaven Road to Haymarket	16,980	627	17,607	25,547	627	26,174	643	25,531	-1,383	5,342	-7,310		22,823	-1,380	21,443	3,836	29.62%
Other	0	3,218	3,218	3,218	0	3,218	662	2,556	0	0	0	0	3,218	0	3,218	0	0.00%
00 Maintenance & Mobilisation	0	2,205	2,205	2,205	0	2,205	662	1,543	0	0			2,205	0	2,205	0	0.00%
00 Spare Parts	0	1,013	1,013	1,013	0	1,013	0	1,013	0	0			1,013	0	1,013	0	0.00%

Comments:
Excludes £3.2m phase 1b payment (refer to budget T19.C)

Risk
Refer to Risk register for risks identified against infraco programme
All risk is held at programme level. This section of the cost report makes no allowance for risk.
Refer to the outputs of the QCRA/QSRA for further information on

Actions

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Infraco Cost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
501	Hawthornevale Cycle Link - Change the design to widen the footway alongside the south side of Lindsay Road	20,021	20,021	0		01	01
502	Amend the design of Ocean Drive to reinstate the footpath to the north of Ocean Drive	10,231	10,231	0		01	01
503	OLE temporary portals at depot access bridge to allow finalisation without Edinburgh Gateway	67,646	67,646	0	Edinburgh Gateway funding	05	01
504	Review of the banned right turn into Blenheim Place as part of the design for Section 1C2 roads	46,247	46,247	0		01	01
505	York Place Terminal Point - Production of a feasibility report, initial feasibility design for option ii), run time modelling etc	228,653	228,653	0		01	01
506	Design for providing a new cycleway from the Mound to Princes Street	9,437	9,437	0		01	01
506.1	Design for providing a new cycleway from the Mound to Princes Street	1,669	0	1,669		01	01
507	Provide a clarification report and completion of the St. Andrew's Square Public Realm design	133,075	133,075	0	Included within contributions	01	01
508	Obtain EAL approval for the highways design drawings at Eastfield Avenue tram crossing	10,025	10,025	0		07	01
509	Design of Cathedral Lane Substation	233,596	233,596	0		01	01
511	Storm Water Connection from Gogar Lodge to the landowners new septic tank	5,750	5,750	0		05	08
512	Re-design of Ocean Terminal Bypass Road	53,685	53,685	0		01	01
513	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	156,870	150,000	6,870		01	08
517	Additional BT Ducts at Depot and Mini Test Track	2,996	2,996	0		06	08
520	Valve chamber access and alteration works to 800mm water main at the Depot	105,326	118,307	-12,980		06	08
526	Airport to Gyle - Tram Delivery Temporary Works	6,878	6,878	0		07	08
529	Design Gogar Castle Access Road tram crossing and approaches	31,308	31,308	0		05	08
530	Amend the design of the Depot Road turning head as per RDC191. Option 2	30,458	30,458	0		06	08
531	Edinburgh Gateway - Advance Temporary Works design	9,349	9,349	0		05	08
536	System Wide - Tramstop Cabinets - reduction in 10 years maintenance liability	0	0	0	No saving to contract	01	08

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Infracost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
538.1	Depot - Tramwash Continuous Mode - Requirement for additional hand lances washers	0	0	0	Change rejected - included within contract	06	08
540	Section 7 - Plot 304 - Omit Landscaping works	-201,120	-199,450	-1,670		07	08
544	Extension to Edinburgh Park Office to accommodate CEC / Transport Scotland	159,900	159,900	0		00	08
553	SDS to provide the services of Matt Fell until end March 2012	69,131	75,000	-5,869		00	01
558.1	Site Wide - Provision of a CAD Technician	1,693	2,000	-307		00	08
559	Detailed Design of York Place	56,438	200,000	-143,562	tnc issued - awaiting BBS estimate	01	08
561	Omit all works at the Forth Ports area	-2,443,000	0	-2,443,000	Work deleted from scope.	01	08
562	On Street Generally - OLE Design Changes for On Street Section (PMC 045)	20,000	20,000	0	All design costs to be grouped under tnc 562 (BBS PMC 045)	01	08
563	On Street - Amend pile caps from square / rectangular to circular	5,000	5,000	0	All design costs to be grouped under tnc 562 (BBS PMC 045)	01	08
564	On Street Generally - Worksite Modelling	10,000	10,000	0		01	08
565	Advanced design works for Edinburgh Gateway Minimum Option	2,650	6,000	-3,350		05	08
565.1	Advanced design works for Edinburgh Gateway Minimum Option	3,350	0	3,350		05	08
565.2	Advanced design works for Edinburgh Gateway Minimum Option	0	0	0	Issued for clarification only. No cost impact	05	08
566	On Street Generally - Ducting Design Changes Due to Utilities Conflicts	10,000	10,000	0		00	08
567	On Street Generally - Drainage Design Changes Due to Utilities Conflicts	10,000	10,000	0		00	08
568	On Street Generally - Trackform Design Changes Due to Utilities Conflicts	10,000	10,000	0		00	08
569	Additional Running Costs associated with the extension to the Edinburgh Park offices	79,200	79,200	0		00	08
572	Cathedral Lane Substation - Retaining Wall Design	5,000	5,000	0		01	08
574	Haymarket Station - Delete viaduct cladding	-10,000	-10,000	0		02	08
576	Depot - Reinstatement to 250mm Water main Remedial Works	60,000	60,000	0		07	04

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Infraco Cost Report Section 2A - Approved Change - Clause 80

TNC No.	Description	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
577	Haymarket Viaduct - Deletion of Sub Station Retaining Wall and Plinth	-10,000	-10,000	0		02	08
582	Delete proposed cladding installation costs on Roseburn Viaduct Structures	-308,004	0	-308,004	Change resulting from value engineering exercise	05	08
585	Descope of Service Vehicle	-21,565	0	-21,565		00	08
Total		-1,328,106	1,600,312	-2,928,418			

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Infracost Report Section 2B - Approved Change - Schedule 45

IC Ref No	Description	Agreed Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
001	Independent Certifiers Schedule Part 45 Period End Change Order to 15/10/2011 relating to the following PAV's and On Street Works Estimates	8,593	8,593	0	Includes TNC 513, TNC 543, TNC 521	01	08
002	Independent Certifiers Schedule Part 45 Period End Change Order to 12/11/2011 relating to the following PAV's and On Street Works Estimates	102,135	102,135	0	Includes TNC513, TNC 521, TNC 528, TNC 535, TNC 543, TNC 547, TNC 548, TNC 549	01	08
003	Independent Certifiers Schedule Part 45 Period End Change Order to 10/12/2011 relating to the following PAV's and On Street Works Estimates	357,140	357,140	0	Includes TNC535, TNC543, TNC548, TNC549, TNC551	01	08
004	Independent Certifiers Schedule Part 45 Period End Change Order to 6/1/2012 relating to the following PAV's and On Street Works Estimates	158,870		158,870	Includes TNC535, TNC543	01	08
Total		626,738	467,868	158,870			

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Infraco Cost Report Section 3A - Change in Progress - Clause 80

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
514	Utility Mapping	92,756	92,756	92,756	92,756	92,756	0	Time chargeable costs. L&M Surveys and Class One. Complete	01	08
516	Additional Water main requirement at Depot and Mini Test Track	41,025	51,282	61,538	51,282	19,667	31,615		06	08
524	Airport to Gyle - NIL Design Finalisation	24,000	30,000	36,000	30,000	30,000	0		07	01
525.1	Airport to Gyle - Site Access for Remedial Works	40,000	50,000	60,000	50,000	50,000	0		07	08
527	Ingliston - Reimbursement of Costs paid directly to SGN for the diversion of approximately 120m of 10" steel IP gas main to accommodate the new Edinburgh Tram at Ingliston	0	0	0	0	0	0	Saving from Infraco, not included during the period as cost not shown in utility budget	07	04
534	SP Insurance Ducts - Install Insurance ducts at various locations	40,000	50,000	60,000	50,000	50,000	0		07	08
539	System Wide - Delay in signing - impact on commencement and completion	4,314,103	4,541,161	4,768,219	4,541,161	4,541,161	0	Meeting scheduled to review cost incurred at delay commencement	00	02
541	Princes Street - City Chamber - Annandale Street Communication Links. Usage of CEC available BT-Lines to avoid provision of direct FO link from Princes Street to City Chambers	40,000	50,000	60,000	50,000	0	50,000	Allowance for ducting	01	08
550	Shandwick Place OLE & Landscape Design Revision	0	0	0	0	0	0	Costs included in anticipated change section	01	08
555	Haymarket - OLE 196B design revision to avoid main sewer	8,000	10,000	12,000	10,000	10,000	0		01	08
556	Track Work Materials York Place to Newhaven - Price Fixing for Rheda City C and D	0	0	0	0	0	0	Included in VE register	01	12
557	Haymarket 1 - OLE Base Relocations (Design mods)	44,000	55,000	66,000	55,000	30,000	25,000	All design costs to be grouped under tnc 562 (BBS PMC 045)	01	08
571	Hope Street Junction Design	4,000	5,000	6,000	5,000	5,000	0		01	08
573	Roseburn - Non DDA Compliant Footpath	0	0	0	0	0	0	TNC covers design only. Costs associated with this change included in the anticipated change section	05	08
575	Haymarket Station - Take Down Haymarket Station Viaduct Staircase and Parapet	32,000	40,000	48,000	40,000	40,000	0		02	08
586	St Andrew Square - tie in detail	24,000	30,000	36,000	30,000	0	30,000	Change resulting from value engineering exercise	01	08
587	Revise design for amendments to setts areas and specification	24,000	30,000	36,000	30,000	0	30,000	Subject to separate CEC budget?	01	08

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Infracost Report Section 3A - Change in Progress - Clause 80

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
589	Descoping airport tramstop kiosk and canopy	-120,000	-150,000	-180,000	-150,000	0	-150,000		07	08
591	Diversion of Scottish Power Cable at Haymarket Viaduct	40,000	50,000	60,000	50,000	0	50,000	NR contribution	05	08
Total			4,935,199		4,935,199	4,868,584	66,615			

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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
521	Haymarket - Temporary Accommodation	0	0	0	0	0	0	Costs included in end of period On Street Works certified amounts	01	08
522	Haymarket 1 - Road Reconstruction	0	0	0	0	0	0	Included in VE register	01	08
523	Haymarket 1 - Additional CBR / Plate Testing	0	0	0	0	0	0	Included within on street priority works (contract milestones)	01	08
528	Haymarket 1 - Slit trench excavation to validate utilities	0	0	0	0	0	0	Included within on street priority works (contract milestones)	01	08
532	Princes Street - Temporary traffic management design	0	0	0	0	0	0	Further information required	01	10
535	Princes Street - 500mm Water Main Diversion - rev 3 dwg	0	0	0	0	129,134	-129,134		01	08
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	156,000	164,647	165,000	163,265	59,267	103,998	Only covers section H1. H2 to YP included in item 7 of Anticipated Change.	01	08
545	Site Wide - Power to bus trackers affecting the ability to remove site clearance items	16,000	20,000	24,000	20,000	20,000	0	McNicholas to remove. Contra charge BBS; allowance included for BBS attendance	00	08
546	Site Wide - Increased number of drainage boxes including installation	21,482	21,482	21,482	21,482	21,482	0		00	08
547	Haymarket H1 - Third Party (McNicholas) affecting ability to progress the works	0	0	0	0	0	0	Costs included in end of period On Street Works certified amounts	00	08
548	Haymarket H1 - BT Fibre Optic Service requires diverting	0	0	0	0	30,000	-30,000		00	08
549	Princes Street - Amend the design of the St. Johns Church OLE bases	0	0	0	0	4,000	-4,000	Opportunity to deduct original scope to be persued once acceptance of revised pole locations is achieved.	01	08
551	Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills	126,000	141,800	154,000	141,200	150,000	-8,800		01	08
552	Princes Street - BT diversion @ junction of Princes Street and South St. David Street	0	0	0	0	0	0	Costs included within TNC 535	01	08
554.1	St Andrew Square & Shandwick Place - Traffic Management Requirements	188,000	210,400	226,000	209,267	180,000	29,267		01	08
560	St. Andrew Square - Omit £0.7m of repairs to road surface finishing	-560,000	-700,000	-840,000	-700,000	0	-700,000		01	08
570	Omit the Removal of Trees in Shandwick Place	-7,000	-9,100	-11,000	-9,067	-9,067	0		01	08
578	SI Provisional Sum Allowance	-46,387	-57,984	-69,581	-57,984	-58,000	16		01	08
579	Removal of embargo and revised traffic management	0	0	0	0	0	0	Change resulting from value engineering exercise	01	07

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Infraco Cost Report Section 3B - Change in Progress - Schedule 45

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Section Code	Change Code
580	Cancellation of trackwork materials York Place to Newhaven	-880,000	-1,100,000	-1,320,000	-1,100,000	0	-1,100,000	Change resulting from value engineering exercise	01	08
581	Omit Siemens work to Tower Place and Victoria Dock bridges	-80,000	-100,000	-120,000	-100,000	0	-100,000	Change resulting from value engineering exercise	01	08
583	Ordering setts for on street works	0	0	0	0	0	0	Assume any cost is funded by CEC	01	08
583.1	On Street Generally - Ordering setts for on street works	0	0	0	0	0	0		01	08
584	Road Reconstruction specification	0	0	0	0	0	0	Change resulting from value engineering exercise	01	08
588	Stafford St Return of Parking Spaces	0	0	0	0	0	0		01	08
590	New cycleway from The Mound into Princes Street	56,000	70,000	84,000	70,000	0	70,000		01	08
Total			-1,338,755		-1,341,837	526,816	-1,868,653			

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Infraco Cost Report Section 4 - Anticipated Change

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Sched.	Section Code	Change Code
1	Pricing Assumptions - 6.4.2.1 Floating Track Slab	784,000	980,000	1,176,000	980,000	980,000	0	Verbal advice from Siemens and Bilfinger Berger of cost of providing floating slab at all locations identified. Potential opportunity to reduce if marginal locations are omitted. Subject to final report from BBS.	On	01	08
2	Pricing Assumptions - 6.4.2.3 York Place Terminal Point	755,200	944,000	1,132,800	944,000	944,000	0	Excludes design costs (in change section of report).	On	01	08
3	Pricing Assumptions - 6.4.2.4 Cathedral Lane Substation	480,000	600,000	720,000	600,000	600,000	0	This budget allowance is for the extra over cost included in the contract for construction of the new tram substation only. There is no allowance for any works in constructing Henderson Global's substation. Design work is included in TNC 509	On	01	08
4	Pricing Assumptions - 6.4.2.6 Dublin Street	40,000	50,000	60,000	50,000	50,000	0		On	01	08
5	Pricing Assumptions - 6.4.2.7 Cycleway at Mound	0		0	0	70,000	-70,000	Allowance for alterations to pavement at junction of Princes St and the Mound. Refer to TNC 590	On	01	08
6	Track Lowering	400,000	500,000	600,000	500,000	500,000	0	The majority of the utility conflicts which result from the track lowering have now been incorporated into the utility forecast. Remaining allowance for bridging structures. Opportunities for bridging being finalised.	On	01	08
7	Piled OLE base in lieu of utility diversion	472,000	590,000	708,000	590,000	750,000	-160,000	Total of 49 piles. Awaiting on street estimates from BBS to confirm value. Original estimate value £750k. Reduced for piles completed and included within the On Street change in progress section.	On	01	08
8	Haymarket viaduct substation	0		0	0	0	0	Consents status TBC	On	01	08
9	NIL future proofing and tramstops	0		0	0	0	0	Included in settlement agreement	Off	07	08
10	Settlement Agreement exclusions not included elsewhere	323,502	404,378	485,254	404,378	404,378	0	Refer to Schedule E, items 7,8,10,11,12,14. 6 removed - now included in change in progress	On	01	08
12	H1 delay costs associated with utilities	492,800	616,000	739,200	616,000	616,000	0	Allowance for 8 weeks delay @£77k/wk	On	01	02
13	Delayed commencement to Shandwick Place & St Andrew Square (from 7/2/12)	169,600	212,000	254,400	212,000	212,000	0	Allowance for 4 weeks delay @£53k/wk	On	01	02
14	Roseburn Delta - DDA footpath	240,000	300,000	360,000	300,000	300,000	0		Off	05	08

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Infraco Cost Report Section 4 - Anticipated Change

TNC No.	Description	Minimum	Most Likely	Maximum	Forecast Amount	Previous Period	Change from Previous Period	Notes	Sched.	Section Code	Change Code
15	Mudfa Reinstatement - Hope Street / Lothian Road	24,000	30,000	36,000	30,000	10,000	20,000		On	01	08
16	Ongoing traffic management at Lindsay Road	48,000	60,000	72,000	60,000	60,000	0	Additional TM cost in excess of contract agreement - 4 months allowed at £15k per month	On	01	08
17	Edinburgh Gateway	0	0	0	0		0	Scope to be established.	Off	05	08
18	BBS PMC 67 and 68. Delay to on street works as a result of Scottish Water withholding consent to discharge into existing manholes.	0	0	0	0		0	Potential for delay. Options to mitigate currently being reviewed. Insufficient information to cost at present.	On	01	02
19	LV supply to Airport Tramstop and Kiosk	24,000	30,000	36,000	30,000		30,000		Off	07	08
20	Further design changes to OLE resulting from utilities (York Place)	160,000	200,000	240,000	200,000		200,000		On	01	08
21	Sub station switching - Provision of competent resource to carry undertake sub-station switching and equipment monitoring. Allowed for 20 weeks	20,000	25,000	30,000	25,000		25,000		Off	06	08
22	Additional Siemens supervision as a result of accelerated programme rev 4C	124,222	155,277	186,332	155,277		155,277		On	01	08
Total			5,696,655		5,696,655	5,496,378	200,277				

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Infraco Cost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contributions	Secured	To be secured	Total Opportunity	Notes
01	Remove embargoes and revised TM	0	0		0	0	-6,460,000	-6,460,000	Subject to completion of sections in advance of contract dates (22 week time saving assumed in the Rev 4C programme)
02	Edinburgh Gateway	0	0		0	0		0	Awaiting instruction from Transport Scotland
03	Setts (separate CEC budget)	0	0		-1,000,000	-1,000,000		-1,000,000	Funded by separate CEC budget (added to contributions register)
04	De-scope public realm at St Andrew Sq	0	-700,000		0	-700,000		-700,000	Instructed
05	Contributions 3rd Party Agreements	0	0		-2,767,837	-2,767,837		-2,767,837	Refer to contributions register
06	De-scope works at Forth Ports	-2,443,000	0		0	-2,443,000		-2,443,000	Instructed
07	Omit Airport Tram Kiosk and Canopy	0	-150,000		0	-150,000		-150,000	Approved, replacement materials t.b.c
08	Temporary tram stop at York Place	0	0		0	0	-150,000	-150,000	Design optimisation
09	Redeployment of Trams	0	0		0	0		0	Included in CEC budget code
10	Cancel track York Place to Newhaven	0	-1,100,000		0	-1,100,000		-1,100,000	Instructed
11	Omit Siemens works at Tower Place	0	-100,000		0	-100,000		-100,000	Instructed
12	Turner & Townsend / CEC resources	0	0		0	0		0	Ongoing
13	Shared recovery vehicle	0	0		0	0		0	Not taken forward
14	Road re-construction depth	0	0		0	0	-700,000	-700,000	Principles instructed, saving subject to site conditions
15	Design freeze north of York Place	0	0		0	0		0	Infraco design costs expended
16	Reduced requirement for storage	0	0		0	0		0	Included in CEC budget code
17	Lay off TM at Forth Ports/Leith Walk	0	0		0	0		0	TM not included in Infraco budget provision
18	Roseburn Viaduct Cladding	-308,004	0		0	-308,004		-308,004	Instructed

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Infraco Cost Report Section 5 - Opportunities

Ref No	Description	Approved Changes	Changes in Progress	Anticipated Changes	Contributions	Secured	To be secured	Total Opportunity	Notes
Total		-2,751,004	-2,050,000	0	-3,767,837	-8,568,841	-7,310,000	-15,878,841	

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Infraco Cost Report Section 6 - Change Summary

Change Code	Description	Approved Change	Change in Progress	Anticipated Change	Contributions	Total
01	Design Risk	883	30	0	0	913
02	Time delay Impact	0	4,541	828	0	5,369
03	Utilities: Haymarket to York Place	0	0	0	0	0
04	Utilities: Off Street	60	0	0	0	60
05	Blockade and Possession Costs	0	0	0	0	0
06	Routine Maintenance	0	0	0	0	0
07	Relaxation of time constraints	0	0	0	0	0
08	Pricing Assumption Variations and Client Change	-1,645	-978	4,869	-3,768	-1,522
09	Land Purchase	0	0	0	0	0
10	Traffic Management	0	0	0	0	0
11	Move to Cost reimbursable Contract	0	0	0	0	0
12	Procurement	0	0	0	0	0
13	Exceptionally Adverse Weather	0	0	0	0	0
99	General Contingency	0	0	0	0	0
Total		-702	3,593	5,697	-3,768	4,820

Notes:

Some CE's have costs which relate to more than one change code. In such instances they have been allocated to the predominant reason.

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Infraco Cost Report Section 7 - Credits & Contributions

Ref No	Description	Included in Contract Sum	Approved Changes	Changes in Progress	Anticipated Changes	Total Forecast	Previous Period	Change from Previous Period	Notes	Sched.	Section Code	Change Code
01	Edinburgh Gateway Feasibility	860,000	82,995	0		940,000	940,000	0	£1.2m in total. Remainder of the costs included in CEC sections of the project budget.	Off	05	08
02	New Ingliston Future Proof measures	540,000	0	0		540,000	540,000	0	This contribution will be offset by a land cost reported within the relevant section of the CEC cost report	Off	07	08
03	Henderson Global - Cathedral Lane substation DESIGN	12,953	233,596	0		246,549	246,549	0	Full extent of agreement with Henderson Global to be established. Allowance assumes all design costs associated with future substation will be borne by Henderson Global.	On	01	08
04	RBS Tramstop	500,000	0	0		500,000	500,000	0	Allowance included subject to final agreement with RBS	Off	07	08
05	St Andrew Square Public Realm design		133,075	0		133,075	133,075	0	As per agreed change value. Assumed to be recovered from separate budget	On	01	08
06	Forth Ports		0	0		0	0	0	Forth Ports work removed from scope - no further contribution from Forth Ports assumed	Off	01	08
07	CEC Miscellaneous. Mainly George Street CEC costs (£298k)	318,213	0	0		318,213	318,213	0	CEC finance have confirmed that a credit has been received in the amount shown. The extent of the workscope associated with this credit is not clear.	Off	01	08
08	Network Rail - Haymarket station refurbishment	0	0	40,000		40,000		40,000	Allowance to offset change values for work carried out by BBS on Haymarket Viaduct to support Network Rails Haymarket Station refurbishment.	Off	02	08
09	Contribution from CEC for public realm work (granite setts) at St Andrews Square	1,000,000	0	0		1,000,000		1,000,000	No change in scope allowed for - setts funded by CEC	On	01	08
10	Network Rail - Scottish Power Cable diversion - Haymarket Station (TNC 591)		0	50,000		50,000		50,000		Off	05	08
Total		3,231,166	449,666	90,000	0	3,767,837	2,677,837	1,090,000				

Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
506.1	Design for providing a new cycleway from the Mound to Princes Street	1,669		0	0	1,669
513	Revised design to minimise utility diversions / conflicts - used for slit trenching and trial holes	156,870		-150,000	0	6,870
516	Additional Water main requirement at Depot and Mini Test Track	0		31,615	0	31,615
520	Valve chamber access and alteration works to 800mm water main at the Depot	105,326		-118,307	0	-12,980
535	Princes Street - 500mm Water Main Diversion - rev 3 dwg	0		0	-129,134	-129,134
540	Section 7 - Plot 304 - Omit Landscaping works	-201,120		199,450	0	-1,670
541	Princes Street - City Chamber - Annandale Street Communication Links. Usage of CEC available BT-Lines to avoid provision of direct FO link from Princes Street to City Chambers	0		50,000	0	50,000
543	Haymarket H1 - Utilities affecting the construction of OHLE foundations	0		0	103,998	103,998
548	Haymarket H1 - BT Fibre Optic Service requires diverting	0		0	-30,000	-30,000
549	Princes Street - Amend the design of the St. Johns Church OLE bases	0		0	-4,000	-4,000
551	Princes Street - 2011 Christmas Embargo - Temporary Surfacing of Track Infills	0		0	-8,800	-8,800
553	SDS to provide the services of Matt Fell until end March 2012	69,131		-75,000	0	-5,869
554.1	St Andrew Square & Shandwick Place - Traffic Management Requirements	0		0	29,267	29,267
557	Haymarket 1 - OLE Base Relocations (Design mods)	0		25,000	0	25,000

Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
558.1	Site Wide - Provision of a CAD Technician	1,693		-2,000	0	-307
559	Detailed Design of York Place	56,438		-200,000	0	-143,562
560	St. Andrew Square - Omit £0.7m of repairs to road surface finishing	0		0	-700,000	-700,000
561	Omit all works at the Forth Ports area	-2,443,000		0	0	-2,443,000
564	On Street Generally - Worksite Modelling	10,000		-10,000	0	0
565	Advanced design works for Edinburgh Gateway Minimum Option	-3,350		0	0	-3,350
565.1	Advanced design works for Edinburgh Gateway Minimum Option	3,350		0	0	3,350
578	SI Provisional Sum Allowance	0		0	16	16
580	Cancellation of trackwork materials York Place to Newhaven	0		0	-1,100,000	-1,100,000
581	Omit Siemens work to Tower Place and Victoria Dock bridges	0		0	-100,000	-100,000
582	Delete proposed cladding installation costs on Roseburn Viaduct Structures	-308,004		0	0	-308,004
585	Descope of Service Vehicle	-21,565		0	0	-21,565
586	St Andrew Square - tie in detail	0		30,000	0	30,000
587	Revise design for amendments to setts areas and specification	0		30,000	0	30,000
589	Descoping airport tramstop kiosk and canopy	0		-150,000	0	-150,000

Infraco Cost Report Section 8 - Period Movement

Ref No.	Description	Approved Off	Approved On	In Progress Off	In Progress On	Total
590	New cycleway from The Mound into Princes Street	0		0	70,000	70,000
591	Diversion of Scottish Power Cable at Haymarket Viaduct	0		50,000	0	50,000
IC004	Independent Certifiers Schedule Part 45 Period End Change Order to 6/1/2012 relating to the following PAV's and On Street Works Estimates		158,870			158,870
Total - Approved Change / Change in Progress		-2,572,561	158,870	-289,242	-1,868,653	-4,571,587

Anticipated Change			55,000	145,277	200,277
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Opportunities					0
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Credits & Contributions			-90,000	-1,000,000	-1,090,000
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Movement		-2,572,561	158,870	-324,242	-2,723,376	-5,461,310
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Utilities Cost Report: Section 1 - Utilities Summary

	Budget Information			Committed			Actuals		Forecast					Third Party Contributions		Variance	
	A	B	C = A + B	D	E	F = D + E	G	H	I	J	K	L	M = F + I + J + K + L	N	O = M - N	P = O - C	Q = O / C - 1
	Original Budget	Budget Variation	Current Budget	Original Contract Value	Approved Contract Changes	Current Contract Value	Cost of Work Done	Outstanding Amount	Changes in Progress	Anticipated Change	Opportunities	Risk / Provision	Anticipated Final Cost	Estimated Contribution Value	Anticipated Final Project Cost	Budget Variance (Value)	Budget Variance (%)
Post Settlement Utilities	2,912	1,800	4,712	2,912	1,800	4,712	3,101	2,281	0	9,530	0	0	14,242	0	14,242	9,530	202.25%
McNicholas	1,812	2,380	4,192	1,812	2,380	4,192	2,766	2,226	0	5,474	0	0	9,666	0	9,666	5,474	130.58%
01 Conflicts	1,812	766	2,578	1,812	766	2,578	2,274	1,104		2,990			5,568		5,568	2,990	115.98%
02 Legacy Works		600	600		600	600	0	600		-600			0		0	-600	-100.00%
03 Standby Team		0	0		0	0	0	0		648			648		648	648	#DIV/0!
04 Management Team		400	400		400	400	280	120		1,175			1,575		1,575	1,175	293.75%
05 Design Team		600	600		600	600	198	402		1,196			1,796		1,796	1,196	199.33%
06 Accomodation		14	14		14	14	14	0		65			79		79	65	464.29%
Statutory Utility Companies	0	520	520	0	520	520	335	55	0	2,956	0	0	3,476	0	3,476	2,956	568.46%
01 Scottish Power		90	90		90	90	53	16		318			408		408	318	353.33%
02 Scottish Gas Networks		60	60		60	60	17	47		200			260		260	200	333.33%
03 Scottish Water		50	50		50	50	196	-146		1,317			1,367		1,367	1,317	2634.00%
04 Virgin Media		150	150		150	150	31	22		133			283		283	133	88.67%
05 Verizon		20	20		20	20	0	20		0			20		20	0	0.00%
06 Cable & Wireless		50	50		50	50	14	38		141			191		191	141	282.00%
07 Fibrenet		0	0		0	0	0	0		250			250		250	250	#DIV/0!
08 BT		100	100		100	100	24	58		597			697		697	597	597.00%
00 Legacy Works	1,100	-1,100	0	1,100	-1,100	0	0	0		1,100			1,100		1,100	1,100	#DIV/0!

Comments:
Conflict resolution forecast to complete based on conflict database.
Legacy works forecast based on original budget. Full scope of this work is currently being established.

Risk
Refer to Risk register for risks identified against McNicholas programme
All risk is held at programme level. This section of the cost report makes no allowance for risk.
Refer to the outputs of the QCRA/QSRA for further information on

Actions
Full forecast of legacy scope of works to be carried out once scope is properly defined.

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Utilities Cost Report: Section 2 - Utilities Budget

Change Number	Description	Budget Main Section Ref	Budget Sub Section Ref	Budget Main Section	Budget Sub Section	Value
UNC-001	Utility resolution up to 31 March 2012	1	01	McNicholas	Conflicts	-1,912,000
UNC-001	Utility resolution up to 31 March 2012	3		Legacy Works		-1,100,000
UNC-001	Utility resolution up to 31 March 2012	1	01	McNicholas	Conflicts	2,678,000
UNC-001	Utility resolution up to 31 March 2012	1	02	McNicholas	Legacy Works	600,000
UNC-001	Utility resolution up to 31 March 2012	1	03	McNicholas	Standby Team	
UNC-001	Utility resolution up to 31 March 2012	1	04	McNicholas	Management Team	400,000
UNC-001	Utility resolution up to 31 March 2012	1	05	McNicholas	Design Team	600,000
UNC-001	Utility resolution up to 31 March 2012	1	06	McNicholas	Accomodation	14,000
UNC-001	Utility resolution up to 31 March 2012	2	01	Statutory Utilities	Scottish Power	90,000
UNC-001	Utility resolution up to 31 March 2012	2	02	Statutory Utilities	Scottish Gas Networks	60,000
UNC-001	Utility resolution up to 31 March 2012	2	03	Statutory Utilities	Scottish Water	50,000
UNC-001	Utility resolution up to 31 March 2012	2	04	Statutory Utilities	Virgin Media	150,000
UNC-001	Utility resolution up to 31 March 2012	2	05	Statutory Utilities	Verizon	20,000
UNC-001	Utility resolution up to 31 March 2012	2	06	Statutory Utilities	Cable & Wireless	50,000
UNC-001	Utility resolution up to 31 March 2012	2	07	Statutory Utilities	Fibrenet	0
UNC-001	Utility resolution up to 31 March 2012	2	08	Statutory Utilities	BT	100,000
Total						1,800,000

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Utilities Cost Report: Section 3 - Conflict Resolution

Conflict Type	Conflicts Resolved	Conflicts Mitigated	Forecast to Complete	Forecast to Mitigate	Total Conflicts	Outstanding Conflict Cost	Cost per Conflict	Comments
Totals								
Priority 1								
Track Construction	373	2	106	0	481	954,000	9,000	
Tram Ducting	52	1	22	0	75	286,000	13,000	
Tram Ducting Chamber	0	0	1	0	1	13,000	13,000	
Road Level conflict	52	0	22	0	74	286,000	13,000	
Overhead Line Base	210	0	66	0	276	198,000	3,000	
Priority 2								
Traffic Signal Pole	0	116	106	0	222	424,000	4,000	
Street Lighting Column	0	10	66	0	76	264,000	4,000	
Road Sign Base	0	236	114	0	350	342,000	3,000	
Kerb	0	0	7	0	7	91,000	13,000	
Drain	0	0	23	0	23	184,000	8,000	
Drainage Gulley Pot	0	36	77	0	113	231,000	3,000	
Unknown	1	4	3	0	8	21,000	7,000	
Forecast to Complete	688	405	613	0	1706	3,294,000	5,374	
Costs to Date						1,474,260	3,305	Cost per conflict includes accrued cost
Accrual						799,543		
Total Forecast						5,567,803	4,280	
York Place								
Priority 1								
Track Construction	1	0	17	0	18	153,000	9,000	
Tram Ducting	0	0	17	0	17	221,000	13,000	
Tram Ducting Chamber	0	0	1	0	1	13,000	13,000	
Road Level conflict	0	0	0	0	0	0		
Overhead Line Base	0	0	22	0	22	66,000	3,000	
Priority 2								
Traffic Signal Pole	0	0	0	0	0	0		
Street Lighting Column	0	0	0	0	0	0		
Road Sign Base	0	0	5	0	5	15,000	3,000	
Kerb	0	0	6	0	6	78,000	13,000	
Drain	0	0	2	0	2	16,000	8,000	
Drainage Gulley Pot	0	0	4	0	4	12,000	3,000	
Unknown	0	0	0	0	0	0		

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Utilities Cost Report: Section 3 - Conflict Resolution

Conflict Type	Conflicts Resolved	Conflicts Mitigated	Forecast to Complete	Forecast to Mitigate	Total Conflicts	Outstanding Conflict Cost	Cost per Conflict	Comments
Forecast to Complete	1	0	74	0	75	574,000	7,757	
St Andrews Square								
Priority 1								
Track Construction	188	2	29	0	219	261,000	9,000	
Tram Ducting	9	0	0	0	9	0		
Tram Ducting Chamber	0	0	0	0	0	0		
Road Level conflict	52	0	22	0	74	286,000	13,000	
Overhead Line Base	76	0	6	0	82	18,000	3,000	
Priority 2								
Traffic Signal Pole	0	0	25	0	25	100,000	4,000	
Street Lighting Column	0	0	10	0	10	40,000	4,000	
Road Sign Base	0	0	37	0	37	111,000	3,000	
Kerb	0	0	0	0	0	0		
Drain	0	0	6	0	6	48,000	8,000	
Drainage Gully Pot	0	0	15	0	15	45,000	3,000	
Unknown	0	0	2	0	2	14,000	7,000	
Forecast to Complete	325	2	152	0	479	923,000	6,072	
Princes Street								
Priority 1								
Track Construction	0	0	0	0	0	0		
Tram Ducting	0	0	0	0	0	0		
Tram Ducting Chamber	0	0	0	0	0	0		
Road Level conflict	0	0	0	0	0	0		
Overhead Line Base	0	0	11	0	11	33,000	3,000	
Priority 2								
Traffic Signal Pole	0	0	1	0	1	4,000	4,000	
Street Lighting Column	0	0	3	0	3	12,000	4,000	
Road Sign Base	0	0	0	0	0	0		
Kerb	0	0	0	0	0	0		
Drain	0	0	0	0	0	0		
Drainage Gully Pot	0	0	0	0	0	0		
Unknown	0	0	0	0	0	0		
Forecast to Complete	0	0	15	0	15	49,000	3,267	

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Utilities Cost Report: Section 3 - Conflict Resolution

Conflict Type	Conflicts Resolved	Conflicts Mitigated	Forecast to Complete	Forecast to Mitigate	Total Conflicts	Outstanding Conflict Cost	Cost per Conflict	Comments
Shandwick Place								
Priority 1								
Track Construction	167	0	27	0	194	243,000	9,000	
Tram Ducting	43	0	0	0	43	0		
Tram Ducting Chamber	0	0	0	0	0	0		
Road Level conflict	0	0	0	0	0	0		
Overhead Line Base	71	0	0	0	71	0		
Priority 2								
Traffic Signal Pole	0	0	5	0	5	20,000	4,000	
Street Lighting Column	0	0	11	0	11	44,000	4,000	
Road Sign Base	0	0	21	0	21	63,000	3,000	
Kerb	0	0	1	0	1	13,000	13,000	
Drain	0	0	6	0	6	48,000	8,000	
Drainage Gully Pot	0	0	17	0	17	51,000	3,000	
Unknown	1	0	1	0	2	7,000	7,000	
Forecast to Complete	282	0	89	0	371	489,000	5,494	
Haymarket								
Priority 1								
Track Construction	14	0	21	0	35	189,000	9,000	
Tram Ducting	0	0	5	0	5	65,000	13,000	
Tram Ducting Chamber	0	0	0	0	0	0		
Road Level conflict	0	0	0	0	0	0		
Overhead Line Base	63	0	26	0	89	78,000	3,000	
Priority 2								
Traffic Signal Pole	0	0	21	0	21	84,000	4,000	
Street Lighting Column	0	0	17	0	17	68,000	4,000	
Road Sign Base	0	0	26	0	26	78,000	3,000	
Kerb	0	0	0	0	0	0		
Drain	0	0	7	0	7	56,000	8,000	
Drainage Gully Pot	0	0	11	0	11	33,000	3,000	
Unknown	0	0	0	0	0	0		
Forecast to Complete	77	0	134	0	211	651,000	4,858	

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Utilities Cost Report: Section 3 - Conflict Resolution

Conflict Type	Conflicts Resolved	Conflicts Mitigated	Forecast to Complete	Forecast to Mitigate	Total Conflicts	Outstanding Conflict Cost	Cost per Conflict	Comments
Uncategorized								
Priority 1								
Track Construction	3	0	12	0	15	108,000	9,000	
Tram Ducting	0	1	0	0	1	0		
Tram Ducting Chamber	0	0	0	0	0	0		
Road Level conflict	0	0	0	0	0	0		
Overhead Line Base	0	0	1	0	1	3,000	3,000	
Priority 2								
Traffic Signal Pole	0	116	54	0	170	216,000	4,000	
Street Lighting Column	0	10	25	0	35	100,000	4,000	
Road Sign Base	0	236	25	0	261	75,000	3,000	
Kerb	0	0	0	0	0	0		
Drain	0	0	2	0	2	16,000	8,000	
Drainage Gulley Pot	0	36	30	0	66	90,000	3,000	
Unknown	0	4	0	0	4	0		
Forecast to Complete	3	403	149	0	555	608,000	4,081	

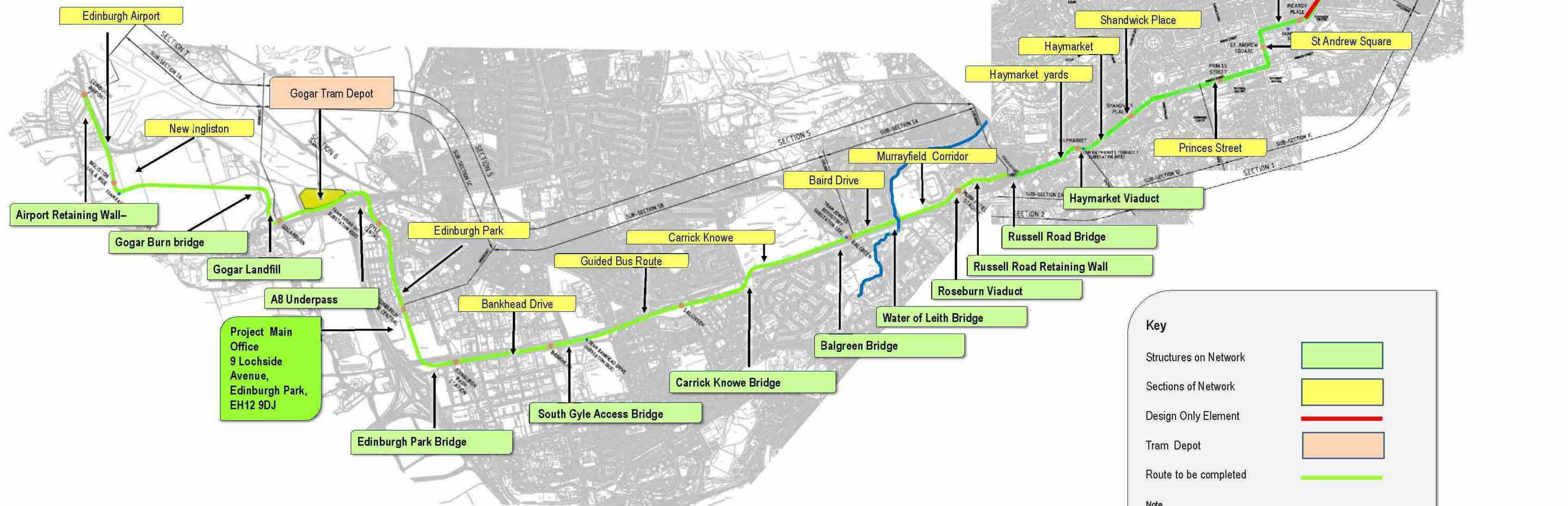
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Appendix 4 – Change Log

Appendix 5 – Risk Register

Appendix 6 – Route Map

Edinburgh Tram Network – Route Map & Key Locations



Appendix 7 – Acronyms

ACRONYMS

ACCB	Accommodation and Boundary Works
AiP	Approval in Principle
ANC	Advice of Non Compliance
APPP	Prior Approvals – Detail Design
APPR	Approvals
APPT	Technical Approvals – Detail Design
ARCH	Architecture
AUXI	Auxilliary Power
BAA	British Airports Authority
BBS	Bilfinger Berger Siemens
BLDS	Buildings
BRDG	Bridges
BSC	Bilfinger Berger / Siemens / CAF - previous consortium
CAF	Tram Provider - (Construcciones y Auxiliar de Ferrocarriles)
CAR	Corrective Action Request
CAR	Water Environment (Controlled Activities) Regulations 2011
CDM	Construction (Design and Management) Regulations 2007
CEC	City of Edinburgh Council
CECS	CEC Services
CFS	Case for Safety
CHAR	Charette Changes
COCP	Code of Construction Practice
COMM	Commissioning
CVI	Confirmation of Verbal Instruction
DAS	Design Assurance Statement
DASB	Design – As Built
DaST	Deliver a Safe Tram
DDAP	Detailed Design Assurance Plan
DEMO	Demolition
DEPO	Depot
DKE	Dynamic Kinetic Envelope
DoC	Declaration of Conformity
DRAN	Drainage
DtTS	Deliver the Tram Safely
E&M	Electrical & Mechanical
EAL	Edinburgh Airport Limited
EART	Earthworks / Embankments
ELEC	Electricity
EMC	Electromagnetic Compatability
ENVI	Environmental
ER's	Employers Requirements
ESM	Engineering Safety Management
FAT	Factory Acceptance Test
FATs	Factory Acceptance Tests
GASS	Gas
GEOT	Geotechnical
HAZID	Hazard Identification Study
HAZOP	Hazard and Operability Study
HIGH	Highways
HIRA	Hazard Identification and Risk Assessment
HMRI	Railway Inspectorate
HS	Historic Scotland
HSE	Health and Safety Executive
HV	High Voltage
ICCO	Independent Certifiers Change Order
ICP	Independent Competent Person

IDC	Inter Disciplinary Check
IDR	Inter Disciplinary Review
Infraco	Infrastructure contract
ISA	Independent Safety Assessor
ISRP	Infrastructure Safety Review Panel
ITP	Inspection and Test Plan
JNCS	Junctions
KPI	Key Performance Indicator
LAND	Landscaping
LIGH	Lighting
LOLER	Lifting Operations and Lifting Equipment Regulations 1998
MANA	Management
MECH	Mechanical
MILE	Milestones
MISC	Miscellaneous
MODL	Modelling
MUDFA	Multi-Utility Diversions Framework Agreement
MUDFA	Multi Utility Diversions Framework Agreement
MULT	Multi-Discipline
NCR	Non Conformance Report
NR	Network Rail
NWR	Network Rail
O&M	Operation and Maintenance
OCC	Operational Control Centre
OCIP	Owner Controlled Insurance Policy
OCL	Overhead Catenary Line
OLE	Overhead Line Equipment
ORA	Operational Risk Assessment
ORR	Office of Rail Regulation
ORS	Operational Radio System
OTHW	Other Works
PHA	Preliminary Hazard Analysis
PLAT	Platforms
PM	Planned Maintenance
POWR	Power (Traction)
PSCC	Project Safety Certification Committee
QCRA	Quantified Cost Risk Analysis
QRA	Quantified Risk Analysis
QSRA -	Quantative Schedule Risk Analysis
RAIB	Rail Accident Investigation Branch
RAM	Reliability Availability Maintainability
REL	Railway Electrification
RFI	Request for Information
RFO	Request for Opinion
RIDDOR	Reporting of Injuries, Diseases and Dangerous Occurences Regulations 1995
ROGS	The Railway and other Guided Transport System (Safety) Regulations 2006
RSA	Road Safety Audit
RSAR	Road Safety Audit Report
S&T	Signalling and Telecoms
SAC	Safety Application Condition
SAT	System Acceptance Test
SATs	Site Acceptance tests
SCADA	Supervisory Control and Data Acquisition
SDS	System Design Services
SEPA	Scottish Environmental Protection Agency
SEWR	Sewerage
SFAIRP	So Far As Is Reasonably Practicable
SGN	Scotland Gas Networks
SI	Site Instruction
SIGN	Signalling
SIT	System Integration Test
SMS	Safety Management System
SNH	Scottish Natural Heritage
SP	Scottish Power
STAK	Stakeholder
STRL	Street Lighting
STRU	Structures / Retaining Structures
SUBM	Submissions
SUBS	Sub-Stations
SURV	Surveys

SW	Scottish Water
T&T	Turner & Townsend
TCO	Tie Change Order
TM	Traffic Management
TNC	Tie Notice of Change
TS	Transport Scotland
TSS	Technical Support Services
UCO	Utilities Change Order
UNC	Utilities Notice of Change