17 December 2007

Executive Summary

High Level View

Progress

	Period 9		
10.11	2.07	Ove	
PLANNED	ACTUAL	Variance	PLAN

Overall P	erformance	to Date
PLANNED	ACTUAL	Variance

TOTAL	Metres	775	884	109	
TOTAL	Chambers	4	3	-1	
BT/Comm	Metres	243	112	-131	
SGN	Metres	42	0	-42	
Scot W	Metres	116	429	313	
Scot P Metres		79	7	-72	

	4903	4099	-804
	21	14	-7
П	799	570	-229
]	141	88	-53
	1789	1337	-452
1	361	294	-67

Costs

See Appendix 1 – Period Costs Report

H&S

There was one accident reported to tie this period.

 16/11/07 (AIIR 00037)IP Believes he stood on a Rawl bolt causing him to slip and stumble onto edge of the excavation striking his back. IP visited doctor and was off work for 2 days

The accident frequency rate (AFR) remains 0.00.

Two Incidents reported this period

- 19/11/07 (A11R 00036) Loss of water due to damaged pipework.
 Bottled water distributed and repairs carried out next day.
- 12/11/07 (AIIR 00033) A car run through the cones at works area out with working hours. Police dealing with incident, however AMIS Reinstated cones.

^{**}All figures have been re-cast previously

Three Near misses reported this period

- 13/11/07 (AIIR 00034) Project Manager for tie Ltd passed the CCTV survey works which were ongoing between manholes at either side of the A8 at Gogar. Found that an operative was working in a manhole (approx. 10m deep) without a gas monitor or rope connection to the surface, All Sub Contractors will be required to demonstrate competence directly for the project works despite the acceptance by SUC's or any other parties.
- 08/11/07 (AIIR00035) Operative struck on face next to his eye while dressing the edges of blocks with a hammer. No eye protection was being worn. Operative issued with eye protection and PPE Briefing received.
- 09/11/07 (AIIR 00031) Operative discovered to be working in 2m depth trench with no shoring provided. AMIS Trialling light weight plastic shoring.

Two site inspections carried out at utilities diversions inspection;

- 28/11/07 at Jane Street 1B, 4 x Actions identified and 1 x observation all actions to be closed out by 07/12/07 score 82.5%.
- 28/11/07 2 x Actions identified 1 x observations all actions to be closed out by 07/12/07 score 90%.

See Appendix 2 - Utility Damage Data

Section 1A

Trial holes to inform construction commenced 4 December 2007. 68 No trial holes are planned, 35 No to be completed pre Christmas, with the remaining 33 No planned for completion in January 2008.

Negotiated approval of works to proceed during Xmas embargo period with FPA. Water connection works were carried out on Ocean Drive during w/c 19 and 26 October 2007, Works comprised transferring 3 x water connections and Forth Ports supply onto new water main installed as part of pre-embargo MUDFA works.

Section 1B

The centre reservation along Leith Walk has been removed between its junction with Annandale Street and Dalmeny Street. Temporary road reinstatement installed in its place to provide a greater working area for the utility diversions and greater flexibility with traffic management along Leith Walk to facilitate achieving the Rev 06 Programme. Removal of the centre reservation is required for INFRACO works. All the proposals have been discussed and agreed with the Traffic Management Panel prior to implementation with local business' and stakeholders informed.

Jane Street road closure commenced 15 October 2007 for twelve weeks to accommodate major exchange BT chamber. These works are being delayed due to the close proximity of an existing 450mm Diameter sewer (directly below existing BT

chamber position). Concern over the rate of progress here, as there are early indications that the programme is exhibiting signs of slippage. Discussions held with AMIS to address this quickly. (Refer to key issues)

Section 1C

The utility road crossings (5 No) in Princes Street at the junctions of Frederick Street and Castle Street were completed during w/c 26 November 2007. Remaining 4 No to be carried out subsequent to Christmas embargo.

The centre reservation along Princes Street has been removed between The Mound and Frederick Street. It is planned to remove the remaining sections of between Waverley Bridge and South St Charlotte Street in January 2008. Temporary road reinstatement installed in its place to provide a greater working area for the utility diversions and greater flexibility with traffic management along Princes Street to facilitate achieving the Rev 06 Programme. Removal of the centre reservation is required for INFRACO works. All the proposals have been discussed and agreed with the Traffic Management Panel prior to implementation with local business' and stakeholders informed.

Trial Holes (16 No) to inform construction commenced in St Andrews Square on Tuesday 27th November.

High level programme for City Centre (St Andrews Sq – Haymarket) signed off by Stakeholders. Enabling works due to commence w/c 7 January 2008 in St Andrews Square and Princes Street. Comms notices to be issued Monday 10 December 2007 in line with 4 week notice period

Communications strategy being developed to support the MUDFA works in the City Centre

All works within the city centre stopped earlier than planned, 30 November 2007 as opposed to the revised 7 December 2007 (agreed with CEC), due to potential PR issue with Harvey Nicholls.

Section 1D

A series of trial holes requested by EICC in Morrison Street commenced 19 November 2007 – these are non-MUDFA works which will not impact on the MUDFA programme. All trial holes complete by agreed 30 November 2007 deadline.

45No trial holes to inform construction along Shandwick Place were undertaken in the period. The remaining 31No planned trial holes will be completed in the next period.

High level programme for City Centre (St Andrews Sq – Haymarket) signed off by Stakeholders. Enabling works due to commence w/c 7 January 2008 on Princes Street, Frederick Street, George Street, Charlotte Square, Hope Street, Queensferry Street, Melville Street and Manor Place. Comms notices to be issued Monday 10 December 2007 in line with 4 week notice period

Communications strategy being developed to support the MUDFA works in the City Centre

Section 5A, 5B & 5C

The MUDFA works available within Section 5A were completed on 5 October 2007 this amounted to 70% of the utility diversions required in this area. The remaining 30% of utility diversions are being transferred to the INFRACO Contractors scope. Section 5B plates 6-13 were issued as IFC on 19 October 2007. A total of ten conflicts were identified and all have been transferred to Infraco mainly for the installation of ducting due to the change of track levels.

5C IFC utility drawings awaited for review by **tie**. The majority of the works in this section will be adjacent to the Gyle Roundabout. A number of private diversions required are owned by Edinburgh Park, including CCTV ducts and mast and bollard mounted footpath lighting. Discussions progressing well with key parties to develop diversionary routes/design.

Section 6 (Utilities)

Diversion of the 33kv SP cable completed and energised.

250mm water main diversion 90% complete (RATs) (Risk And Trade off). Currently awaiting final acceptance of the method statement from Scottish Water for testing and commissioning of the main.

800mm water main diversion final levels under design following the relocation to the depot access road with a reduced minimum cover of 900mm, agreed with Scottish Water. To the West side of the depot the pipe will be located off the access road but at the foot of the embankment.

These works will be carried out under a RATs proposal – early discussions underway with SW to this effect. Anticipate commencement now in early part of January 2008.

Section 6 (Gogar)

Gogar Depot Earthworks completed as far as practicably possible. Site made safe and secure and transferred back to tie 13 November 2007.

Section 7A & 7B

7A (RATS) are approximately 50% complete on site. A number of water pipes have not been located despite significant trial holes and it is anticipated that Infraco will install insurance ducts in the anticipated location to account for any future diversions.

A Utility Workshop for 7B has been arranged with BAA for 19 December 2007 to review the existing utility information and agree the strategy for resolving utility conflicts.

1.0 Design

See Appendix 3 - Design Tracker

1.1 Traffic Management

- The MUDFA works are continuing on Lane 1 Northbound of Leith Walk between McDonald Rd and Balfour Street. A contra-flow on the southbound side of the carriageway was installed through this works section on Tuesday the 30th of October. AMIS have reinstated a section of the completed works and the cross-over to the contra-flow has moved N/B to Middlefield. The TMRP have approved the closure of Pilrig Street on the 3rd of December for 2 weeks to allow ducting operations in this area.
- The Central Reserve removal works between Balfour St and Annandale Street have been completed. AMIS proposes that the removal of the Central Reserve between Montgomery Street and Picardy Place RA will be undertaken early in 2008.
- The cross carriageway ducting operations on Princes Street between Castle Street and The Mound commenced for a period of 3 weeks on the 12th of November. The works have been completed as programmed.
- The Traffic Management required to undertake the works starting in the City Centre in January 2008 is currently under consideration. The diversion routes required to allow progression of the MUDFA works are under development and a modelling exercise is required of the affected junctions to assess suitable rephrasing of Traffic Signals and access issues.

1.2 Communications & Stakeholder

 Review of communications team link up with Traffic Management and operations carried out in the period to address miscommunication within the teams. Actions taken and process implemented to ensure full visibility of proposed works to the key functions.

See Appendix 4 - Stakeholder Engagement Analysis

1.3 Commercial

- All the potential issues related to the delayed commencement of the AMIS MUDFA utility diversion works. All issues arising prior to September 2007 have been agreed with AMIS and a settlement agreed which is within the liability previously made. Meeting arranged 12 December 2007 to review all commercial issues and develop way forward.
- The potential issue associated with the access to the SU apparatus which will remain within the DKE, specifically along Constitution Street and Shandwick Place is being progressed. Following a meeting with TEL to define access parameters DLA Piper have been commissioned to draft a formal legal agreement for TEL/CEC/Statutory Utilities. The basis of the proposed agreement has been communicated to the affected SU's.

- Road reinstatement issue and potential revised specification based upon performance has been progressed by tie/CEC in the period. Material and principle of performance parameters and protocol have been agreed upon. Awaiting confirmation back from CEC (DF) on rate applied to B.0 material, this presently appears high.
- A joint review, tie/AMIS, of the required utility diversions to update the AFA based upon the currently issued IFC and the issued for approval drawings in the period is underway and will be completed in January 2008. The joint review will be based upon approximately 80% of the design for the Project.

See Appendix 5 – Risk Register

2.0 Operations Next Period

2.1 Construction

- Continuation of the work fronts in Leith Walk.
- Trial hole operations Constitution Street.
- Completion of remaining CCTV surveys section 1A & 3
- Continuation of RATs in section 7A.
- Review of potential earlier start in utility diversions alongside OTL reprioritisation of SDS design packages to assist this.
- Review of impending city centre works with Comms, TM, Ops and programme to align efforts.
- NB All city centre operations temporarily halted 30 November 2007 due to Xmas embargo. These will recommence on the 7 January 2008.

2.2 Design

See Appendix 6 – Forecast Design Issuance

2.3 Programme

Extensive review by all parties; tie, AMIS and Key Stakeholders has resulted in acceptance of the Revision 06 Programme. City Centre programme logic around St Andrew's Square, the Mound and Princes Street was key to its acceptance. Micro programme required around St Andrews sq to ensure full visibility of programmed works in this sensitive area.

The following key issues have had a major impact on the Rev 06 programme:

BT cabling and jointing programme – working with BT to explore ways
of reducing the impact, including BT working 24/7 and allowing early
access for BT cabling and jointing by sub-area, requiring detailed
integration with Infraco. The program aims to minimise potential
interfaces between MUDFA and Infraco to maximise the window of
opportunity for BT cabling and jointing works;

- Traffic Management interface between works in St Andrews Square, the Mound and Lothian Road junction. Several meetings have resulted in way forward with the construction works in this vicinity, whilst minimising disruption to the traffic flow and businesses.
- NB: A Significant Increase in the Traffic Management and Construction works around Princes Street, St Andrew's Square and York Place are due to commence end of January 2008. This will require substantial liaisons with all Key Stakeholders to ensure expectations of anticipated works are fully understood and appreciated. Definitive Traffic Management proposals are ongoing.

3.0 Initiatives

- Review of service utility diversions requirements based on revised depth and protection. Area of review 400 – 1200 depth range below FRL. Further review of latest detail of INFRACO proposed RHEDA CITY track system and potential reduced diversions ongoing. Overall construction depth to be of the order of 350 – 400mm.
- Maximise recovery of costs associated with SUC C4 estimates via specialist
 consultant's advice/input. Awaiting Corduroys response to their initial formal
 proposal and in discussions with SUC's to have Berkeley's as their
 representative to reduce the number of interfaces. Also considering a BT
 specialist to join the MUDFA team for a short period of time to assist in the
 design and C4 implications related to betterment/deferment etc.
- Provision of an independent survey team to carryout dilapidation surveys along the tram route (SDS responsibility) – protect tie's position from potential 3rd Party claims post MUDFA & INFRACO – Commencement of dilapidation surveys by independent body on 10th December '07.
- RAT's proposal put forward for section 7 and 6 (800mm diam WM) –
 minimising depth of excavation from 2.3m to 900mm cover will generate cost
 savings to diversion works.
- Performance specification process and preferred material agreed in principle with CEC. Awaiting confirmation of rates for supply of B.0 material from Proficio (CEC). Potential programme benefits overall in enhanced performance of production.
- Review of both MUDFA/INFRACO programmes to identify critical areas wherein synergies can be adopted through interface of programmes.
- Review of section 1A diversions assess potential programme gains due to implementation of temporary diversions, thereby allowing earlier construction start to INFRACO works.

4.0 Key Issues/Blockers

- BT cabling and jointing programme working with BT to explore ways of reducing the impact, including BT working 24/7 and allowing early access for BT cabling and jointing by sub-area, requiring detailed integration with Infraco. The programme aims to minimise potential interfaces between MUDFA and Infraco to maximise the window of opportunity for BT cabling and jointing works.
- SGN technical and commercial issues resolved with the exception of a 30" gas main at the Mound – options reviewed.
- MUDFA/INFRACO programme interfaces
- AMIS resource levels concern at their ability to match programme demands. Particular regard to major increase from Jan'08 onwards. Meeting held to discuss issue to ensure actions in place to recover present deficit and address future demands.



APPENDIX 1

Period Costs Report

Phase 1a AFC reconcilaition to Target

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leasured works							0
							0
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'k							
North Leith Sands	Newhaven Roundabout	95,294		95294			95,294
Ocean Terminal RHS	North Leith Sands	194,917		194917			194,917
Pennies Isles Bridge RHS	Ocean Terminal RHS	35,175		35175			35,175
Casino Square	Pennies Isles Bridge RHS	375,414	375,414				375,414
Duke Street Junction	Elbe Street	2,138,410	2,138,410				2,138,410
Balfour Place	Duke Street Junction	776,473	776,473				776,473
Croall Place	Balfour Place	778,482	30	778482			778,482
Broughton Street	Brunswick Street	930,068	930,068				930,068
South St Andrew Street	York Place	1,756,706	1,756,706				1,756,706
The Mound	South St Andrews Street	(A)	41 31				
The Mound	South St Davids Street						7 <u>2</u> 5
I I F V T S S S T T T	usive of AMIS Profit & O/H es allowance relims Staff ment b/H ludes AMIS O/H & Profit) Park vance of OCIP r/manholes, Gas, CCTV) sion to support BT openreach arthworks Ph1 arthworks Ph2 ng of properties along full leng ng defects period from 2 to 5 yr rinces St, Shandwick Place, Li leasured works k North Leith Sands Ocean Terminal RHS Pennies Isles Bridge RHS Casino Square Duke Street Junction Balfour Place Croall Place Broughton Street South St Andrew Street	Issive of AMIS Profit & O/H es Illowance relims Staff ment O/H Itudes AMIS O/H & Profit) Park vance of OCIP r/manholes, Gas, CCTV) Ision to support BT openreach arthworks Ph1 arthworks Ph2 ng of properties along full length of route for line 1&2 ng defects period from 2 to 5 years rinces St, Shandwick Place, Leith Walk Ideasured works k North Leith Sands Ocean Terminal RHS Pennies Isles Bridge RHS Casino Square Duke Street Junction Balfour Place Croall Place Balfour Place Croall Place Brunswick Street South St Andrew Street South St Andrew Street Free Support Street York Place South St Andrew Street York Place Free Support Street South St Andrew Street South St Andrew Street Vork Place	1,842,623 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,762 1,76	1,842,623 1,842,623 1,750,000 68,868 69,868 6	1,842,623 1,842,623 1,842,623 1,750,000 1,75	1,842,623 1,842,623 1,842,623 1,842,623 1,842,623 1,856,355 es 1,750,000 1,750,000 1,750,000 1,356,355 es 1,956,355 es 1,956,355 1	1,842,623 1,842,623 1,842,623 1,842,623 1,356,355 393,645 68 68,868 69,868

1c.5	The Mound	The Mound	415,178	415,178				415,178
1c.6	South Charlotte Street East	South Lane	125,978	125,978				125,978
1d.1	Lothian Road Junction	South Charlotte Street Junction						
1d.2	Shandwick Place East End	Princes Street West End	382,817	382,817				382,817
1d.3	Haymarket Station	Stafford Street	631,723	631,723				631,723
2a.1	Roseburn Sub Station	Haymarket Train Station	1,200,279	1,200,279				1,200,279
1.3.6.1	Roseburn Sub-station	Crewe Toll Tram Stop	162,380	162,380				162,380
1.3.7.1	Crew Toll Tram stop	Granton Road	180,882	180,882				180,882
1.3.8.1	Granton Road	Granton Square Tram Stop	311,250	311,250				311,250
Cloases circle		Granton Sq Stop	1,070,434	1,070,434				1,070,434
	Settlement (inclusive of AMIS		1,000,000				1000000	1,000,000
	Remeasurement of meterage						X	7.00
	Adjustment to reflect JC Budge	et Summary Sheet	- 20,811				-20811 -	20,811
			12,541,049	10,457,992	1,103,868	(2)	979,189	12,541,049
	AMIS O/H & Profit		1,015,612	920,303	97,140		1,831	1,015,612
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144147575755555454								
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Cabling Only			212850	212,850				212,850
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Water Supply			750000	750,000				750,000
All assoc. wor			1000000	1,000,000				1,000,000
City/work sect								191
	pparatus diversions	lute Comme						6 .0 0
Services diver	rsions - civils wk - sector 5, Hym	kt to Gogar	5,364,550	5,364,550				5,364,550
	AMIS O/H & Profit		472,080	472,080		121	<i>₹</i>	472,080
	AIVIIS O/H & FIOIII		5,836,630	5,836,630		100		5,836,630
Provisional S	lime		5,850,050	3,030,030	-		-	3,030,030
	rvation Activities		150000				150,000	150,000
Historic Prese			175000	175,000			130,000	175,000
Pest Control/A			50000	170,000			50,000	50,000
	Ground Conditions (mineworking	ne)	100000	100,000			50,000	100,000
Unmarked gra		95)	100000	100,000				100,000
	ot in preamble)		50000	50,000				50,000
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	ontaminated material		150000	150,000				150,000
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	Proerty owner - non mudfa enabl	ing wks	75000	75.000			50,000	75,000
	reet furniture/replacement	g	150000	150,000				150,000
Tree protectio			15000	15,000				15,000
1,0	tility diversion works		200000	200,000				200,000
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Utilities 8.8% AMIS Profit & O/H			11,745,000	7,797,389			3,947,611		11,745,000
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Total Costs including Depot &	Risk		68,859,336	37,222,256	1,592,895	8,220,543	21,823,643		68,859,337
Less Depot Less Risk		350 362	5,232,000 12,100,000			5,232,000	12,100,000		5,232,000 12,100,000
			51,527,336	37,222,256	1,592,895	2,988,543	9,723,643		51,527,337
	PER PM REPORT P8 Difference (Being Infraco works tb t/f)	(5)	51,652,335 124,999					5	51,652,335 124,998

Budget but no information still to be provided Target Liabilitised amount based on best estimate General Provision, allowance for non specific items

Reassessment Of AFA based on circa 80% of design January 2008 -



APPENDIX 2

Utility Damage Data

Utility Damage data

The following Tables/Graphs provide details of the utility damage that has occurred since the commencement of MUDFA works.

Hours to date 119780, Metreage of all diversions Based on information received from AMIS 7592m as period 9 end.

This information allows tie to report on the utility damage against man hours and metreage.

This information should allow tie to forecast utility damage based on supplied figures

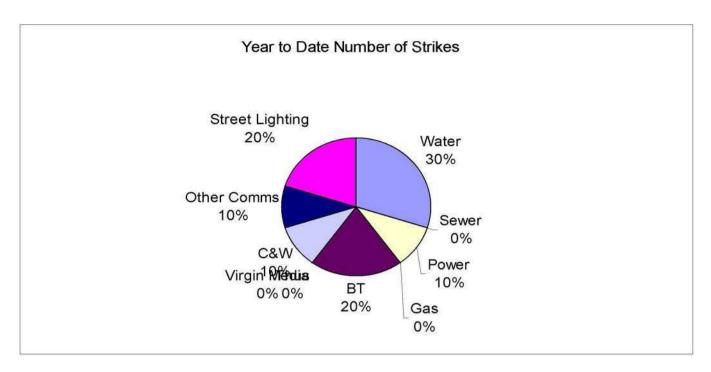
10 x Damages per 8536m = 1 per 853.6 m average!

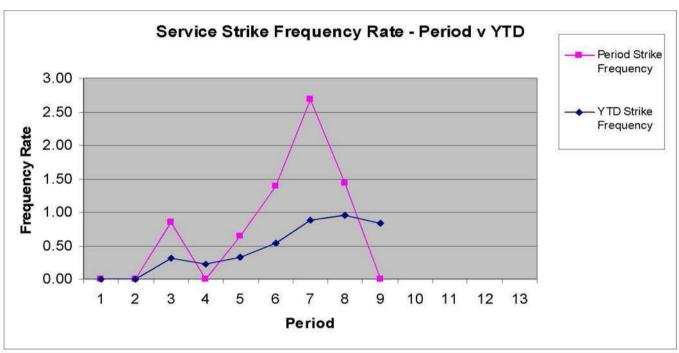
10 x Damages 119780 hrs = 1 per 11,780hrs

Utility	Rolling Number of Strikes
Water	3
Sewer	0
Power	1
Gas	0
ВТ	2
Virgin Media	0
Thus	0
C&W	1
Other Comms	1
Street Lighting	2

Period	Period Strike Frequency	YTD Strike Frequency
1	0.00	0.00
2	0.00	0.00
3	0.86	0.32
4	0.00	0.22
5	0.64	0.33
6	1.38	0.53
7	2.68	0.89
8	1.43	0.96
9	0.00	0.83
10		
11		
12		
13		

Information		
Hours Expended in Period =	14000	
Hours Expended year to date =	119780	
Service strikes in period =	0	
Service Strikes Year to date =	10	
Period Service Strike		
Frequency Rate (per 10000hrs) =	0/00	
Year to date Service Strike		
Frequency Rate (per 10000hrs) =	0.83	







APPENDIX 3

Design Tracker

MUDFA Design Tracker SDS Design Status @ 04th December 2007

ection	Drawing Nos	Issue t	o SUC's for Ap	proval		SUC Approval		Issue A	pproved IFC P	ackage	IFC to Const'n Start		sion 06 - Final ruction Start	
		PLANNED	SDS F'CAST	ACTUAL	PLANNED	F'CAST	ACTUAL	PLANNED	F'CAST	ACTUAL	DAYS	PLANNED	ACTUAL	
1A	plates 01-05	26-Oct-07	15-Feb-08		09-Nov-07	29-Feb-08		23-Nov-07	14-Mar-08	A SECTION AND		07-Apr-08	- V4.118911	MUDFA works will be novated to INFRACO
1A	plates 06-10	26-Oct-07	18-Jan-08:		09-Nov-07	01-Feb-08		23-Nov-07	15-Feb-08		52	07-Apr-08		Revised Road & track alignment issued. Requires formal agreement with Forth Ports & CEC before Road & Tram Alignment design (5 weeks) & Utility design (6 weeks) can commence Requires re-programme of construction works. Utility design to be commenced on plates 08-19 (title to instruct SDS) which will bring back forecast IFC date to Feb 2088.
1A	plates 11-12	26-Oct-07	15-Feb-03		09-Nov-07	29-Feb-08		23-Nov-07	14-Mar-08		ш	07-Apr-08		MUDFA works will be novated to INFRACO
16	00000 15/15	G4:3869-07		DECEMBER 2	(Youngur)	225,006-07	Walanii Z	260000000	03(4)(07)	DANSMITT		188-184-017.	DRAW OX	Store Commence Shirtle Code (Co.) 2001 (Store postular approval for Yann Product
1A	plates 16-21	14-Sep-07	024lov-07	-39-03 - 07	21-Sep-67	10-Eec-07		05-Oct-07	07-Jan-08		70	17-Mar-08		EACH Server Marticle A. Enrows (Toponiminet 24th X-Path Criticise 2007) as analyse in Description Compilers BT C4 for outside LOD not due from BT until 05th Oct 2007. Alignment Changes in pixtes 16.8.17 will effect pixte 15. "*(Diversions currently underway pixte 15)" As-built drawings to 16.8.15 required to be submitted to SOS by 05th Oct 2007 at the latest. RoR issued to SDS on 12-Nev-07 Status of Approval Outstanding. SSN - Approval Outstanding. SSN - Approval Outstanding. SW-F. BT - Approval Outstanding. SW-F. BT - Approval Outstanding. CSW - Approval Outstanding. CSW - Approval Outstanding. SW-P. Approval Outstanding.
30	(phillen 20-26)	\$17Aug/07	07-800007	10-Sep-07	07/5(0)/07	0.140600.07	1.130 0007	21-Sep.07	12500000		1000	2748m000		
19	TENNOS (17-31)	96488607	B9-Jun 07	095MW107	19:30683	:0150mix07	DIVAMBOR.	275NiA07	31-400.67	31:A00:07	1	.05-19 kit/s07	1054S00103	
10	plates 32-38	12-Oct-07	31-0d-07	08-Nov-07	19-Oct-07	27-Nov-07		02-Nov-07	11-Dec-07		125	14-Apr-08		SDS issued 2 no. cross-section details for SP turined crossings on 20-Nov-07. Itle ROR issued to SDS on 20-Nov-07. Status of Approvals: SCN - Approved 26-Nov-07 SP - SP have already approved plates 32-35. (Will re-submit full approval letter for 32-38. SW-C - Approval Outstanding SW-C - Approval Outstanding CSW - Approval Outstanding Thus - Approval Outstanding Values: Values:
1C	plates 39-41	12-Oct-07	12-Nov-07	15-86/4-07	19-0st-07	14-E4ic-07		02-Nov-07	Street		-	07-Jan-08		Status of Approvals: SSN- Approved 22-Nov-97 SP- Approved Uststanding SP- Approved Outstanding BT- Approved Outstanding BT- Approved Outstanding CSW- Approved Outstanding Thus - Approved Outstanding VM- Approved Outstanding VM- Approved Outstanding VM- Approved Outstanding
	108904248	94-590-07	49-Sup-IIF	12-EHH-07	All Capital		12,000		14-045-07		- 4	Отщинал		
16.	prate 44	TA-Sep-(FF	mediat	13-5-9-07	Jifetep-67	2h-04007	TEXTRA PE	Description (- Warshamill		200	100 Am (III		
	100000				07-Sep-07		93-0-ch07	***		05000007	38	12-110-197	12000003	
	\$10 161 46 4 8		08/800/07			28-Sep-07		21-549-07			-20		E-MOV-US	PERSONAL MANAGEMENT
10	plates 52-56	28-Sep-07	08-Nov-07	09-Nov-07	05-Oct-07	23-146+-07 14-041-07	25Hm91	19-Oct-07	N-Gener	26.Nov.07		04-Feb-08		Status of Approvals: SSN - Approval Outstanding SP Approval Outstanding SW-C - Approval Outstanding SW-C - Approval Outstanding BT - Approval Outstanding C&W-C - Approval Outstanding Trus- Approval Outstanding Trus- Approval Outstanding VM - Approval Outstanding

MUDFA Design Tracker SDS Design Status @ 04th December 2007

Section	Drawing Nos	os Issue to SUC's for Approval SUC Approval		į.	Issue Approved IFC Package			IFC to Const'n Start	MUDFA Revision 06 - Final Issue Construction Start					
		PLANNED	SDS F'CAST	ACTUAL	PLANNED	FCAST	ACTUAL	PLANNED	F'CAST	ACTUAL	DAYS	PLANNED	ACTUAL	
2A	plates 1-3	14-Sep-07	14-Dec-07		21-Sep-07	11-Jan-98	MICCOS SECTION OF SECT	05-Oct-07	25-Jan-08	**************************************	122	26-May-08		BT Design was issue to tie on 26th November 2007. Design will be issued for approval on 14th December 2007.
52	anates 1-5	gresur-to:	1254H-07	(E-107)	MANAGED .	-10-Page 601	110-mapes	UNAugit)	100000000	*1170 Marga (No.	10	90-Wat-01	гинидта	
100	plates a d	W/Augelf	"Altrepit/"	an cap 01	281000007		16 minute	11-Sep of	In-month	damount	240	MISSAULE		SOE MIDE ATE NO DIVERSIONS FOR MUDIA IFC package (ssue 0.9-Nov.01 (Only 2 diversions for Scottish Power - Non-MUDIA).
	pages o-th	22:00p-01		and the part of the	Li Aug-01		10-0-004	M-Sep of		Autoreal	166	041 00-01		
	MARKET .	Alvieto II	and the same of th		III COMPANY			MSS M	772 000 001	110000000	15.7	All hard and		Status of Approvals:
														RoR cannot be completed until all drawings in this section are issued. No Composite issued yet.
														SDS are targetting 07-Dec-07 for issue of IFC drawings.
5B	plates 14-20	03-Aug-07	094604-07	02-Nov-07	17-Aug-07	30-Nov-07		14-Sep-07	07-Dec-07		136	21-Apr-08		SGN + Approved 26-Nov-07 SP - Approved 05-Nov-07 (excluding Transmission cables which were issued to SP on 28-Nov-97 for approval) SW-C - Issued for Approval on 99-Nov-07. Approval Outstanding BT - Approved Crustanding C&W - Not issued Thus - Approved Outstanding WM - Approval Outstanding
50	plates 21-26	13-Jul-07	14-Dec:07		27-Jul-07	11-Jan-08		10-Aug-07	25-Jan-08		391	25-Feb-08		Design of works outside LOD at Gyte is causing SDS problems. Deed of Servitude required for plates 23-24 design to continue. Thereafter 2 weeks design to issue to SUC's for Approval. SGN: SGN: SP: SWC- BT- C&W- Thus - VW4 -
8A	plates 1-2	28-Sep-07	-		19-Oct-07	Name:		02-Nov-07	program			03-Sep-07	03-Sep-07	Status of Approvals: SGN - Verbal Approval. NO ASSETS designed by SDS SP - Written approval obtained. Will require re-design based on depot move. SW4C - 800mm cross sections with line & level & valve positions will be tabled at SW meeting tomorrow. Outcome of discussions will determine issue for Approval date. BT - Approval given to 1 conflict being abandoned. C&W - SDS received survey into from the 12-Ost-07. Design to be amended. Thus - Minor Change undeted - SUC conflact changed SDS trains to errange meeting with new conflai.
7A	plates 1-7 (demarkation splits plate 7)	24-Aug-67	14-590-07		07-Sep-07	28-Dec-07		21-Sep-07	11-Jan-08			27-Nov-07	27-Nov-07	"*AMIS propose RATS initiative for this area."* RATS works commeced on-site on 27-Nov-07. Status of Approvals: SSN - Unity design to be defined following new alignment & levels on 23-Nov-07. SP - Unity design to be defined following new alignment & levels on 23-Nov-07. SW-C. Utility design to be defined following new alignment & levels on 23-Nov-07. SW-C. Utility design to be defined following new alignment & levels on 23-Nov-07. CW-C. Utility design to be defined following new alignment & levels on 23-Nov-07. CW-CW-CW have continued they have no assets in the area. Thus - Thus have no appractus in this section. VM - VM have no assets in the area although they have requested an additional crossing. Additional crossing not in SDS section. SDS to ask for approval on 1-7 only as per drawings previously in Sud-
78	plates 7-9 AMIS / JE	01-Feb-07	01-Feb-07		15-Feb-08	15-Feb-07		29-Feb-08	29-Feb-08			31-Mar-08		AMIS Outline Programme of Design is Prelim Design Nov-Dec 2007 & 2 stage Detailed Design period of Jan-Apr 2008. Construction programmed Non critical diversions April to May 2001. Critical Systems May to August 2008.
3A	plates 1-23	26-Oct-07	30-Nov-07	100mmiti7	02-Nov-07	28-Mar-08		16-Nov-07	25-Apr-08	1	115	18-Aug-08		
38	plates 24-33	09-Nov-07	30-Nov-07	and the last	16-Nov-07	28-Mar-08		30-Nov-07	25-Apr-08		206	17-Nov-08		
3C	plates 34-42	09-Nov-07	30-Nov-07	(Cheery)	16-Nov-07	28-Mar-08		30-Nov-07	25-Apr-08	-	220	91-Dec-68		

tie Forecast dates are based on 2 weeks for SUC approval from SDS Issue to SUC's.

tie Forecast dates are based on 2 weeks for Issue Approved IFC Package from SUC approval.

YELLOW indicates October IFC targets, GREEN complete or ahead of programme, AMBER missed target, RED Critical Issue

IFC to Construction Start days: - Less than 28 days critical RED, 28-42 days AMBER

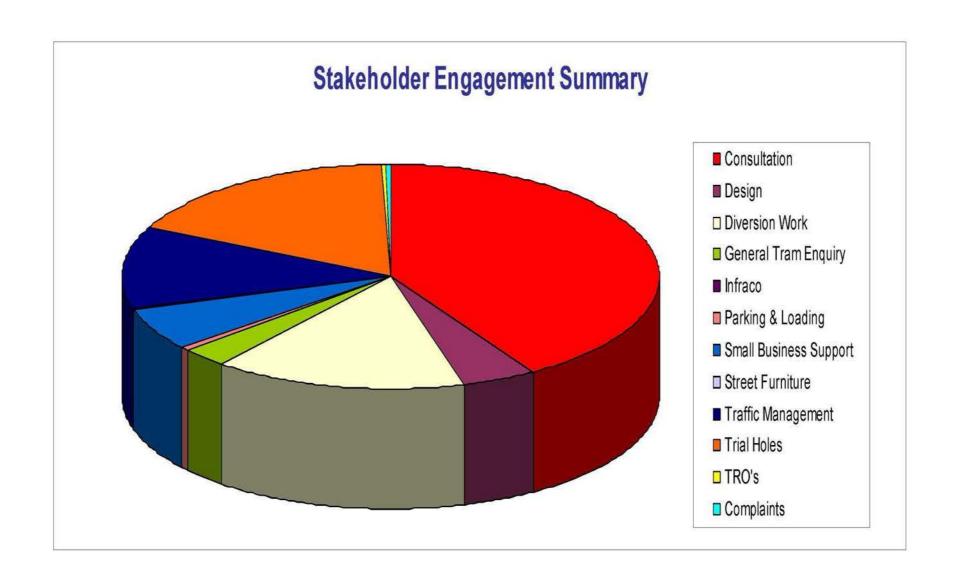


APPENDIX 4

Stakeholder Engagement Analysis

CEC01452199_0020

Stakeholder Engagement Analysis – Cumulative to 11/11/07





APPENDIX 5

Risk Register

MUDFA RISK REGISTER - NOV 07

	Risk Description	r.									
ARM Risk ID	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owner
139	Utilities diversion outline specification only from	Uncertainty of Utilities location and consequently		G Barclay	High-25.00		Carry out GPR Adien survey	Complete	Complete	31-Oct-07	J Casserly
	plans		carrying out more diversions than estimated				Identify increase in services diversions. MUDFA to resource/re- programme to meet required timescales.	On Programme	Complete	23-Nov-07	J McAloon
							In conjunction with MUDFA, undertake trial excavations to confirm locations of Utilities and inform designer	On Programme	On Programme	31-Jan-08	A Hill
164	Utilities assets uncovered during construction that	Unknown or abandoned assets or	Re-design and delay as investigation takes place	I Clark	中山 - 连河		Carry out GPR Adien survey	Complete	Complete	31-Oct-07	J Casserly
	were not previously accounted for; unidentified abandoned utilities assets; asbestos found in excavation for utilities diversion; unknown cellars and basements intrude into		and solution implemented; Increase in Capex cost as a result of additional works.				Identify increase in services diversions. MUDFA to resource/re- programme to meet required timescales.	On Programme	Complete	23-Nov-07	J McAloon
	works area; other physical obstructions; other contaminated land						In conjunction with MUDFA, undertake trial excavations to confirm locations of Utilities and inform designer	On Programme	On Programme	31-Jan-08	A Hill
342	Tram alignment at A8 crossing at Gogar co- incides BT data nests/cable (main coms link between Glasgow and Edinburgh)	A8 crossing tunnel requires special design or BT data e nest/cables require to be moved	a Capex cost to cover BT data nest/cable move; additional design costs; delay while works to undertake move are carried out, additional tunnelling costs.	I Clark	Hgn - 24 00		Confirmation of BT requirements to tie	On Programme	Complete	15-Oct-07	l Clark

nted		

MUDFA RISK REGISTER - NOV 07

	Risk Description										
ARM Risk ID	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owner
911	Scottish Power own and maintain a cable tunnel in the vicinity of Leith Walk	Presence of Scottish Power tunnel in Leith Walk requires radical solution	Tunnel may have to be decommissioned and re- laid in a more suitable	M Blake	High - 24 (8)		Scottish Power to establish exact location of tunnel	Complete	Complete	2-Apr-07	l Clark
	that may or may not interfere with Tram construction and operation; exact location and depth of tunnel is unknown; condition of tunnel is unknown.		location; tram alignment may require to be adjusted; special foundation soluiton e.g. cantilever may be required; increased capex; potential for tunnel collapse during operation and consequent disruption for tram.				SDS to try and ensure tram alignment footprint is outwith Scottish Power alignment - confirmation via thumbnails due 16th November		On Programme	28-Dec-07	T Glazebrook
			ya				tie to undertake engineering feasibility study	Complete	Complete	2-Apr-07	J Casserly
926	Major single safety incident during construction	Safety incident during MUDFA Diversions - Gas/Power/Water	Injury to employee. Delay (potentially critical) due to HSE investigation and rework. PR risk to tie and stakeholders.	G Barclay	High - 22.60						
914	Required approval/acceptance turnaround time does not reflect SUC standard practice; SUCs do not have enough resource or process capability to	unable to meet design approval/acceptance turnaround time to meet	s Additional period required for design approval/acceptance turnaround	T Glazebrook	High - 20.00		SDS to obtain consent for design in accordance with programme requirements - Scottish Water and all Telecoms	Complete	Complete	31-Dec-07	l Clark
	achieve 20 day turnaround						SDS to obtain consent for design in accordance with programme requirements - SGN and Scottisk Power	On Programme	On Programme	30-Dec-07	M Blake

Print		0-	OO N	Late	2007
PHH	tea	Un.	09 h	40V	2007

MUDFA RISK REGISTER - NOV 07

	Risk Description										
ARM Risk ID	Cause	Event	Effect	Risk Owner	Significance	Black Flag	Treatment Strategy	Previous Status	Current Status	Due Date	Action Owner
21	Design constraints e.g. presence of other utilities, proximity of LoD boundary, diversion technical requirements etc.	Design requires that Utilities are diverted outside of LoD	Additional design; additional land purchase required and consequent contact with landowners; design may result in increased work quantities due to extent of diversions; potential increased duration of works.	T Glazebrook			AMIS to seek to divert under Statutory Utility powers where outwith LoD	Complete	Complete	28-Dec-07	G Barclay
							GIS used to identify diversions outwith LoDs and respective landowners	On Programme	Complete	31-Aug-07	E Cropley
							SDS to aim to design diversions within LoD	On Programme	On Programme	28-Dec-07	T Glazebrook
							SDS to undertake design checks to ensure diversion in LoD	On Programme	On Programme	28-Dec-07	T Glazebrook



APPENDIX 6

Forecast Design Issuance

