



MUDFA Project
Western Harbour
Leith Docks
Edinburgh
EH6 6QF

Telephone [REDACTED]
Facsimile 0131 561 2811
www.alfredmcalpineplc.com

Ref: AMIS/tie/letter/AM/Projects/484

8th October 2007

Mr. Graeme Barclay
tie MUDFA Utilities Project Manager
tie Limited.
Verity House,
19 Haymarket Yards,
Edinburgh.
EH12 5BH



Dear Graeme,

Subject: MUDFA Alfred McAlpine Infrastructure Services (AMIS) – Contract A150
AMIS MUDFA Project Progress Report (MUDFA) – Contract Requirement 2.46

I refer to the above referenced contract requirement and have pleasure in forwarding to you a copy of the AMIS MUDFA Project Progress Report for the September 2007 period covering the Edinburgh Tram MUDFA Utility construction services.

If you should have any further queries then please do not hesitate to contact me. I look forward to seeing you at the monthly progress meeting scheduled for Thursday 11th October 2007 at 10.00 Hrs, Leith Offices, Edinburgh.

Yours sincerely,
For and on behalf of **Alfred McAlpine Infrastructure Services Ltd**



Andrew Malkin
MUDFA AMIS Project Director

Copies:-
tie Project Team
See Report Distribution

MUDFA Project Team
See Report Distribution
AMIS MUDFA Board

Attachment /... **AMIS MUDFA Transmittal No. AMIS/tie/DT/Admin/0341**



Alfred McAlpine Infrastructure Services Limited. Registered in England No. 00728599
Registered Office: Kinnaird House, 1 Pall Mall East, London SW1Y 5AZ



**MULTI-UTILITY DIVERSION FRAMEWORK
 AGREEMENT (MUDFA)**
 Relating to the
Edinburgh Tram Network
Contract No. A150

**ALFRED McALPINE
 INFRASTRUCTURE SERVICES (AMIS)**
DOCUMENT No. A150/PM/PRJ-REP/MUDFA/07
DOCUMENT TITLE :
PROJECT MONTHLY REPORT
END SEPT 2007 - MUDFA WORKS

VERSION No : 01

PAGE : 1 of 21

DOCUMENT OWNER : ANDREW MALKIN

| | | | | | | | |
|-------------------------|----------|---------|----------|----------|------------|----------------|------|
| | | | | | | CODE A, B OR C | |
| | | | | | | | |
| Roddy E. Aves | 04.10.07 | | 05.10.07 | | 05.10.07 | N/A | N/A |
| Author | Date | Checked | Date | Approved | Issue Date | Approved | Date |
| MUDFA AMIS PROJECT TEAM | | | | | | Tie / Client | |



Infrastructure Services



MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

AMIS MUDFA Project Monthly Report – Construction Services

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT

Month 6 – September 2007

Contents

1. Executive Summary
2. Health and Safety, CDM, Quality and Environmental
3. SDS Design Interface and Buildability Analysis
4. Operations Management – Reported by Section Against Programme
5. Communications and Stakeholders
6. Construction Planning and Project Controls
7. Contract and Commercial Management
8. Future Business Opportunities & Developments

Appendices :

1. Construction Services – Section 1A WSI 003/002 “S” Curve (1 Page)
2. Construction Services – Section 1B WSI 001/002 “S” Curve (1 Page)
3. Construction Services – Section 5A WSI 008/002 “S” Curve (1 Page)

Distribution :

tie Limited Project Management

Matthew Crosse, Susan Clark, Steven Bell, Tom Clark, Donna Reid, Brian McCall, Tom Condie, Graeme Walker, Graeme Barclay (Chair), Phil Douglas, Allan Hill, Jim Johnston, Ian Clark, Michael Blake, John Casserly, Jim Ritchie & John McAloon.

AMIS Project Management

Andrew Malkin, Keith Gourlay, Graeme Strachan, Gil Clelland, Gerry Bannon, Stephen Clemenson, Steven Crosbie, Roddy Aves, Billy Murray, Ian Shanks, Catherine Gick, David Main, Taryne Lowe, John Cowan, Ollie Hughes, AMIS Board (Alan Robertson) & AMIS MUDFA Contract File (38 Copies in Total).

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

1. Executive Summary

Alfred McAlpine Infrastructure Services (AMIS) continues with Trial Hole Investigation (Section 1B South), Construction Services and operations at Ocean Drive (Section 1A/North) and Leith Walk (Section 1B Central). The MUDFA Construction Services work at Roseburn (Section 5A) was completed within the reporting period and Section 5B has now been formally novated to INFRACO (Note – Interface verification to be carried out by **tie** Limited and SDS Provider).

In the four week reporting period AMIS MUDFA has achieved accumulative “Actual” progress of 5.31% against a “Planned” requirement of 6.10% for the overall MUDFA utility diversion works (MUDFA expenditure to date equates to 7.37%). The progress deviation of 0.79% at the cut-off date of Friday 5th October 2007 is attributable to several change control and emerging work factors as explained within the contents of the monthly report.

In line with the last twelve monthly progress reports the main AMIS MUDFA concern still relates to the lack of availability and accuracy of Issued for Construction (IFC) detailed utility design drawings (Circa. 35 No. Excluding sections 3A, 3B and 3C), conflict registers, bill of materials (BOM's) and HAZID Logs by the SDS Provider. Further concerns relate to the timescale restriction surrounding work order preparation and this will be addressed during independent commercial audit scheduled for week commencing 22nd October 2007.

There have been an unacceptable number of utility strikes in the reporting period and the safety related messages will be reiterated during the AMIS MUDFA Stand down planned for week commencing 22nd October 2007.

2. Health and Safety, CDM, Quality and Environmental

Main Achievements Within the Reporting Period

- No major accidents. Accident Frequency Rate (AFR) = 0.
- Utility strike occurred on low voltage circuit to traffic lights at Section 1B, Leith Walk (Redundant cable left in live condition – Not identified on HAZID Log).
- Utility strike occurred on BT Telecom 100 Pair Cable at Section 1A/N.
- AMIS MUDFA safety inductions complete and up to date.
- Archaeology watching brief and contract now established and implemented for Sections 1A, 1B and 6 (Section 7A currently under review).

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- No environmental near misses reported within the reporting period.
- **tie** Limited safety inspections carried out on 2nd October 2007 with a 95% assessment being issued.
- AMIS MUDFA control procedure for Unidentified Apparatus submitted to **tie** Limited for final review and approval (Includes flowchart).
- Implemented Audit/Inspection Schedule for site operations (MUDFA & Gogar).
- Road reinstatement proposal reviewed by **tie** Limited and CEC specialists on Wednesday 26th September 2007 (**tie** Limited to issue instructions).

Activities Planned for Next Reporting Period

- Safety Stand Down (SSD) planned for week commencing 22nd October 2007. Considered a major opportunity to reiterate safety and utility strike message.
- One-to-One sessions planned with all operations team members to focus on utility strikes and future expectations for MUDFA.
- Roll out briefing sessions to share lessons learnt and best practice across all project worksites (Take 5 initiative to be implemented by AMIS MUDFA).
- Continue MUDFA staff safety forums at Leith Offices and site compound and extend to On-site Operational activities.
- Secure site based HS&E Officer to oversee all site operations and to support the operations teams and Delivery Managers implement all requirements.

Areas of Concern & Key Highlights

- SDS HAZID Log data being provided for work orders. **tie** Limited to address with SDS Provider before planned work ordering.
- Management of access permits procedures (Briefing required - Overdue).
- Further clarity required on **tie** Limited safety management and governance.

3. SDS Design Interface and Buildability Analysis

Main Achievements Within the Reporting Period

- Completed strategic and detailed review Construction Services Programme, Revision 06 to support the AMIS MUDFA commercial agreement (Action - **tie** Limited to approve).
- Statement of Requirements (SoW) prepared and issued for Sections 7A and 7B introducing Risk and Trade-Off solutions for MUDFA. Summary : Section 7A, Utility Protection = 13 No. and Utility Novation to INFRACO = 3 No. (Total 16

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

No.); and Section 7B, Utility Protection = 19 No. and Utility Diversions = 4 No. (Total 23 No.). Action – **tie** Limited to review and gain SDS Provider approval.

- Section 5B Work Order cancelled following **tie** Limited correspondence (i.e. Construction Services work novated to INFRACO).
- Section 1D Work Order issued for Trial Holes in Shandwick Place.
- Section 1C Work Order issued for Trial Holes in Princes Street (Embargo critical).
- Section 6 Work Order issued for the Utility Diversion construction works at Gogar Depot encompassing RAT's proposals (This is critical to mitigating cost and timescale escalation in Phase 2/2A mass earthwork programme – Refer to Gogar Depot Monthly Report).
- Work Order closed out for Section 1C Trial hole investigations at Crawley Tunnel on Princes Street.
- Detailed Construction Services programme generated following detailed interface review of the SDS Provider utility design issue dates and latest forecasts.
- AMIS MUDFA continues attendance at SDS Provider and SUC technical interface meetings as required.

Activities Planned for Next Reporting Period

- Finalise work orders for Sections 1C, 1D and 7A (Including Trial Hole packages).
- Complete Work Order approval for Section 6 (Reduced MUDFA scope of works).
- Confirm Section 7A RAT's proposals are acceptable to **tie** Limited and formulate Section 7A work order.
- Review potential RAT's proposals for the Ocean Terminal frontage covering Section 1A/North.
- Commence estimating and detailed planning support for the design and build of Section 7B utilities protection and diversion works involving BAA, Edinburgh engineering interface and operational requirements (See Section 7A/7B Report).
- Finalise impact review of late submission of Schedule 13, 3rd Party agreements on work order planning and specific requirements (Action - **tie** Limited).

Areas of Concern & Key Highlights

- Availability of SDS Provider and SUC approved utility diversion designs at Issued for Construction (IFC) status complete with Bill of Material (BOM's), Conflict Registers and site specific HAZID Logs. According to the MUDFA Construction

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

Programme, Revision 06 the planned requirements are approximately 35 No. drawings behind schedule for Sections 1A, 1B, 1C, 2, 5C and 6.

- The utility design definition, detail and lateness remains a major concern for AMIS MUDFA especially having just released Construction Services, Revision 06.
- **tie** Limited and SDS Provider have still to create a “3D Design Representation” for the diversion and protection of utilities in the 0 to 550mm, 550 to 1,000mm and greater than 1,000mm zones in order to provide a fully documented design criteria (Action progressing).
- Availability of up to date SDS Provider utility design release information and design tracker for incorporation into the P3e Construction Services programme.

4. Operations Management

4.1 Construction Services

4.1.1 Section 1A

Main Achievements Within the Reporting Period

- In the four week reporting period AMIS MUDFA has achieved accumulative “Actual” progress of 79.0% against a “Planned” requirement of 78.0% for worksite and work order 1AWSI003/001 within Section 1A (See Appendix 1 @ 28th September 2007– 1 Page). The majority of Construction Services work will be completed by Friday 12th October 2007 to comply with the Forth Ports Traffic Management embargo requirements, although a small portion of off-road works will be required to complete the mains water connections to local premises.
- The following factors have impacted directly on performance and schedule completion, including :
 - Increase in baseline workscope (i.e. Workscope increasing by 134%),
 - Additional road crossing requirements for water connections,
 - Additional 100 metres of 4-Way ducting for British Telecom,
 - Excessive underground concrete bases and unforeseen obstacles (i.e. Remains a major concern for INFRACO – Risk Register Item),
 - Cable installation restrictions in terms of available space,
 - Additional unforeseen workscope relating to power cable jointing.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Manhole cover reset and repaired in Constitution Street on behalf of Scottish Water (**tie** Limited to reimburse AMIS MUDFA).
- Sewer survey carried out in Constitution Street on Wednesday 3rd October 2007.

Activities Planned for Next Reporting Period

- Completion of Section 1A / North work order 1AWSI003/001 (Tower Street to Rennies Isle) outstanding water connections work and area completion records.
- Review opportunities to carry out RAT's work adjacent to the Ocean Terminal providing embargo relaxation can be secured from Forth Ports Plc (Action **tie** Limited).
- Secure opportunity to continue working in the Northern section of Constitution Street adjacent to the "Arches" back towards former work site area (**tie** Limited to review SDS Provider current position regarding track alignment).
- Section 1A – Revisit Water Jetting, CCTV Sewer and Manhole Surveys.
- Section 1A (2) – Revisit Water Jetting and CCTV Sewer Surveys.
- Section 1A – 2 No. CCTV Sewer and 3 No. Manhole Surveys still remain outstanding (AMIS MUDFA dedicated team commences Monday 15th October 2007).

Areas of Concern & Key Highlights

- Increasing workscope on worksite and within work order 1AWSI003/001, and overall trend in relation to future emerging MUDFA works not previously identified by SDS Provider.
- Impact of potential track realignment on Section 1A at Casino Square in relation to BT Chamber and ducting works still remains a concern and may materialise in rework.

4.1.2 Section 1B

Main Achievements Within the Reporting Period

- In the four week reporting period AMIS MUDFA continues carrying out Trial Hole Investigations in order to support design validation and to de-risk MUDFA Construction Services longer-term in relation to utility mains installation. The primary concern relates to the correct alignment of BT Chambers in direct relation to the main chamber being modified at Jane Street (i.e. Major telecommunications chamber and connection point in Section 1B).

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Trial Hole investigation work continues with accumulative “Actual” progress of 49.0% being achieved against a “Planned” requirement of 73.0% for Section 1B.
- Section 1B Construction Services accumulative “Actual” progress of 6.0% against a “Planned” requirement of 13.0% for work order 1B/WSI/001/001 within Section 1B has been achieved. AMIS MUDFA are experiencing difficulty in terms of utility clearance and installation and will address all technical changes with SDS Provider in due course.
- The McDonald Road closure was completed on Monday 8th October 2007 as per the agreements reached with the Traffic Management Panel. Lothian Buses were consulted on all ongoing operations (i.e. Major MUDFA milestone achieved).
- Section 1B – 7 No. Manholes not found during investigation works (i.e. 9903, 9814, 9915, 9811, 9904, 8706 & 5106) and are at deviance to the SDS Provider drawings. AMIS MUDFA has raised technical queries (Responses still outstanding) and will address the remedial work on Monday 15th October 2007.

Activities Planned for Next Reporting Period

- Continue with the Construction Services works between McDonald Road and Iona Street and review extending the technical and operational requirements associated with the laying of the gas and water mains to increase production and recover programme (i.e. Initiative now supported by the Traffic Management Panel).
- Commence removal and temporary road reinstatement of the central reservation down the centre line of Leith Walk to allow more flexibility with Traffic Management and to assist work site access and volumes.
- Re-assess future major road junction crossing within the integrated programme with stakeholder critical dependencies in mind.
- Instigate the junction and road closure at Jane Street on Monday 18th October 2007.

Areas of Concern & Key Highlights

- Excessive underground congestion of utilities and impact on cost and timescales.
- Concerns regarding volume work restrictions imposed by Traffic Management Panel regime (Note – Improvements being implemented).

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

4.1.3 Section 1C

Main Achievements Within the Reporting Period

- A series of Trial Hole investigations have been reviewed and detailed for **tie** Limited and SDS Provider approval within the reporting period (i.e. Work Order to be approved).
- There was no MUDFA utility diversion construction works planned for Section 1C within the reporting period.
- Within the reporting period a further Trial Hole investigation was carried out adjacent to the Crawley Tunnel for the purposes of gaining additional information on the existing gas main (Note – Report and technical details passed to SDS Provider).

Activities Planned for Next Reporting Period

- There is no MUDFA utility diversion construction works planned in the next reporting period.
- Section 1C – Trial Hole investigations will commence in the next reporting period following completion of Section 1B. Traffic Management approval has been obtained and AMIS MUDFA is fully aware of the pending city centre embargoes.

Areas of Concern & Key Highlights

- Nothing to report at this stage.

4.1.4 Section 1D

Main Achievements Within the Reporting Period

- Within the reporting period a site survey has been carried out in support of the Morrison Street major development by City of Edinburgh Council (CEC). This is deemed Non-MUDFA works and an AMIS MUDFA work order has been completed for **tie** Limited technical and funding approval.
- There was no MUDFA utility construction works planned within the reporting period.

Activities Planned for Next Reporting Period

- There is no MUDFA utility diversion construction works planned in the next reporting period.
- AMIS MUDFA currently giving detailed consideration to the impact of INFRACO at Haymarket Junction in order to mitigate cost and ensure ONE-STOP operations (Action – Integrated programme complete with cause and effect

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

analysis required for major traffic junction taking into consideration parallel utility diversion works at Morrison Street).

- Gain Traffic Management Panel approval to carry out Trial Hole investigations at Morrison Street and assess opportunity in relation to pending embargoes.

Areas of Concern & Key Highlights

- Consideration to be given to integrated construction works with INFRACO at Haymarket Junction due to the scale and complex nature of the road junction.
- Lothian Road Junction remains a major concern in relation to the imposed three weekend working. AMIS MUDFA currently developing work-a-round solution but demands continuous working for extended period.

4.1.5 Section 2

Main Achievements Within the Reporting Period

- There were no planned MUDFA utility construction works within the reporting period.

Activities Planned for Next Reporting Period

- There is no MUDFA utility diversion construction works planned in the next reporting period.
- Revisit Manhole Survey to locate MH 8106 following SDS Provider consultation.

Areas of Concern & Key Highlights

- Consideration being given to Schedule 13 stakeholder requirements and any programme related changes will be addressed through Contract Clause 46.

4.1.6 Sections 3A, 3B & 3C

Main Achievements Within the Reporting Period

- Edinburgh Tram Line 2 MUDFA construction works has been deferred until the completion of Line 1 due to funding restrictions.

Activities Planned for Next Reporting Period

- There is no MUDFA utility diversion construction works planned until further confirmation by tie Limited.

Areas of Concern & Key Highlights

- Construction Services delay in relation to AMIS turnover and loss of overhead recovery has been addressed as part of the commercial agreement.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

4.1.7 Section 4

The MUDFA utility works within Section 4 is expected to be carried out by others as a future Edinburgh Tram development (i.e. Out with current scope of work).

4.1.8 Section 5A, 5B & 5C

Main Achievements Within the Reporting Period

- Section 5A work site and work order 5A/WSI/008/002 accumulative “Actual” progress of 100.0% against a “Planned” requirement of 60.0% for Section 5A has been achieved at the cut-off date of Friday 5th October 2007 (See Appendix 3).
- The pending Section 5B MUDFA utility diversion construction works has been novated to INFRACO and no work orders will be prepared accordingly.

Activities Planned for Next Reporting Period

- AMIS MUDFA Construction Services are to be closed out on Section 5A and then divert of efforts to complete the remaining part of Section 5A (i.e. Missing drawings currently being expedited).
- Section 5B (Planned for Mid-October 2007) has been novated to INFRACO as formally instructed by tie Limited. There will be no further MUDFA related works in this area (Action – tie Limited and SDS Provider to verify and confirm
- Section 5A – AMIS MUDFA still trying to locate large brick sewer in Network Rail Depot drive. 2No. Manholes found in area and are not 0801 and 0803 as per the SDS Drawings.
- Section 5A – Manhole 7707 does not exist and CCTV is required from Manhole 1901 onwards subject to traffic management approval.
- Section 5B - AMIS MUDFA still trying to locate Manholes 1101 and 2101 suspected of being on the golf course, and Manholes 1302 and 2301 suspected to be in the grass verge. Manholes 6202 and 7508 not yet located.

Areas of Concern & Key Highlights

- Consideration to be given to Schedule 13 stakeholder requirements and access to Network Rail premises going forwards.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

4.1.9 Section 6

Main Achievements Within the Reporting Period

- Refer to separate "Gogar Depot" Monthly Report for progress and current planning activities associated with Phases 2, 2A and 3 mass earthworks, etc.
- There was limited MUDFA utility diversion designs provided by SDS Provider within the reporting period (Design Tracker date 20th August 2007 – Currently 10 weeks overdue) causing AMIS MUDFA to propose RAT's solutions to progress Section 6 and mitigate cost escalations on behalf of **tie** Limited.
- The Cable & Wireless telecommunication cables and ducting was successfully diverted into a trench running adjacent to the A8 Carriageway (i.e. Critical service and dependency).
- BAA Edinburgh redundant water main was successfully abandoned.

Activities Planned for Next Reporting Period

- In the next reporting period a number of MUDFA utility construction works are planned, including :
 - Removal of redundant 250mm Dia. SW water main,
 - Completion of the 2 No. 32 kV power system diversions, and
 - Design routing and pre-construction of twin 800 mm Dia. water mains (Approximately 250 metres – SDS Provider design information dependent).
- Receive progressive delivery of the 800mm Dia. Ductile Iron Water Main pipes.

Areas of Concern & Key Highlights

- **tie** Limited to obtain outstanding SDS Provider design information and approvals to assist authorising work order approvals.
- **tie** Limited and AMIS MUDFA to review and address potential cost escalations.

4.1.10 Section 7A

Main Achievements Within the Reporting Period

- Section 7A Statement of Requirements (SoW) document prepared by AMIS MUDFA for **tie** Limited review and approval (See separate Monthly Report).
- There was no MUDFA utility construction works planned within the reporting period.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

Activities Planned for Next Reporting Period

- Obtain access permits and carry out site surveys across the Gogar Mains, and ensure Archaeological aspects are addressed at the onset (Action – **tie** Limited).
- Amend and approve Statement of Requirements (SoR) document.
- Convene Workshops Part 1 and 2 and finalise all agreements duly obtaining SUC approvals.
- Commence first stage of utility protection works.

Areas of Concern & Key Highlights

- Consideration to be given to Schedule 13 stakeholder requirements, Access Permits and Operating Licence.

4.1.11 Section 7B

Main Achievements Within the Reporting Period

- Section 7B Statement of Requirements (SoW) document prepared by AMIS MUDFA for **tie** Limited and BAA Edinburgh review and approval (See separate Monthly Report).
- There was no MUDFA utility construction works planned within the reporting period.

Activities Planned for Next Reporting Period

- Complete BAA Edinburgh site and safety inductions and carry out site surveys at Airport and Eastfield Avenue (Action – **tie** Limited and AMIS MUDFA).
- Amend and approve Statement of Requirements (SoR) document.
- Convene Workshops Part 1 and 2 and finalise all agreements duly obtaining SUC approvals.

Areas of Concern & Key Highlights

- Extent and cost of detailed design and engineering support to be determined as part of the planning definition phase.

4.2 Traffic Management

Main Achievements Within the Reporting Period

- Traffic Management plans are progressing for Section 1B (Leith Walk) and subject to challenge in order to secure a larger site access and work volumes.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Traffic management plans for CCTV, Water Jetting, Sewer and Manhole Surveys being reconsidered to support operations commencing Monday 15th October 2007.
- Completed Traffic Management Plans for Trial Hole investigation on Sections 1C and 1D.

Activities Planned for Next Reporting Period

- Complete Traffic Management Plans for Sections 5C and 6 and secure Traffic Management Panel and CEC approvals.
- Commence preparation of Traffic Management Plans for Section 1B (Next Phases).
- Confirm Traffic Management Plan approvals for remaining CCTV, Water Jetting, Sewer and Manhole Surveys.
- Consider MUDFA and INFRACO inter-dependencies in future traffic management planning.

Areas of Concern & Key Highlights

- Continue traffic plan discussions in advance of formal submissions.

4.3 Materials, Supply Chain Management & Site Services

Main Achievements Within the Reporting Period

- **tie** Limited provided financial approval for the purchasing of 800mm Dia. Ductile Iron Water Main to support Construction Services at Gogar Depot.
- Long lead materials for the Leith Walk require technical and financial approval by SDS Provider and **tie** Limited respectively.
- Power cable change order finalised and approved by **tie** Limited for part ordering of cables at £283,587.99 (cable definition and quantities passed to **tie** Limited).
- Bill of Materials (BOM's) from SDS Provider will assist AMIS MUDFA to establish jointing materials required for construction services (Action – **tie** Limited).

Activities Planned for Next Reporting Period

- Compare SDS Provider Bill of Materials (BOM's) for first IFC drawings against AMIS MUDFA advanced estimates to assess any AFA and commercial discrepancies.

Areas of Concern & Key Highlights

- No early visibility of Bill of Materials (BOM's) with materials being purchased at risk. **tie** Limited requested to accept and underwrite commercial exposure.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

5. Communications and Stakeholders

Main Achievements Within the Reporting Period

- Attendance at **tie** Limited frontager, Leith Walk retailer community and Edinburgh Retail Committee meetings ongoing.
- Weekly communication meetings continue between **tie** Limited and AMIS MUDFA teams with integrated working and weekly attendance at Traffic Management Review Panel meetings (Proving beneficial).
- AMIS MUDFA communications team, with assistance from **tie** Limited, delivered customer information packs to residents and businesses surrounding Section 5A for work starting 20th August 2007.
- 5 No. customer complaints received in association with the construction works at Leith Walk and Ocean Terminal Drive. The AMIS MUDFA Tram Helpers have dealt with the key issues to the satisfaction of all concerned.
- 16 No. customer inquiries (12 No. General and 4 No. Specific) and general requests for information were sought via telephone and e-mail.
- There has been very little media interest during the reporting period.

Activities Planned for Next Reporting Period

- Leith Walk retailer community assistance being provided by AMIS MUDFA in the form of leaflets and flyers for regular customers whilst Construction Services work causes minor disruptions.
- Consideration to be given to the recruitment of the next AMIS MUDFA Tram Helper to support the ramp up in Operations teams.
- Schedule 13, 3rd Party stakeholder agreements to be reviewed with specific attention being given to the retailer requirements associated with advertising and ongoing construction operations and planned notifications.
- Training day for the AMIS MUDFA Tram helpers in conjunction with **tie** Limited in relation to the handling of the general public, media challenges and completion of risk appraisals for Tram helpers (Considered very important).
- Ongoing support to AMIS MUDFA Operations teams at all worksite locations.

Areas of Concern & Key Highlights

- Last minute changes to work schedules impacting on customer notifications already issued, or contravening the four week lead in cycle.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

6. Construction Planning and Project Controls

Main Achievements Within the Reporting Period

- **tie** Limited and Stakeholder Constrained (formerly Imposed) Programme, Revision 06 technically reviewed against SDS Provider interface (i.e. Design Tracker) and finalised within the reporting period (28th September 2007).
- In the four week reporting period up to and including the monthly report cut-off date of Friday 20th October 2007 AMIS MUDFA has achieved accumulative "Actual" progress of 3.27% against a "Planned" requirement of 7.03% overall for all current work sections and worksites. The deviation of 3.76% is attributable to several design, technical and operational factors and will be discussed at the forthcoming Monthly Progress review meeting.

Activities Planned for Next Reporting Period

- **tie** Limited and AMIS MUDFA to approve Construction Services Programme at Revision 06 and give due consideration to INFRACO dependencies accordingly.
- P3e Programme detailed development and cost resourcing will continue once SDS Provider utility design details are received from SDS Provider.
- Complete detailed technical audit of SDS Provider utility design progress.
- Recommence AMIS MUDFA Operations interactive planning sessions.
- Review late delivery of Schedule 13, 3rd Party agreements and impact on planning and ongoing operations (i.e. Embargoes and operating constraints).

Areas of Concern & Key Highlights

- Availability of accurate utility design technical definition and associated design details to support detailed planning and cost estimating to meet **tie** Limited expectations.

7. Contract and Commercial Management

Main Achievements Within the Reporting Period .

- AMIS MUDFA change control issues being progressively cleared and resolved in reporting period. AMIS MUDFA estimated value £3,283,086.99 (Excluding Gogar) and £488,243.92 approved to date by **tie** Limited.
- AMIS MUDFA payment application (No.10) for £9,309,803.63 submitted for review and certification due week commencing 8th October 2007.

MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Significant progress has been made in relation to the commercial agreement, incentivisation scheme and pending entitlements within the reporting period (Concluding Actions – Steve Bell and Steve Hudson).
- Schedule 13 requirements and potential programme impacts to be dealt with under Clause 46. Full suite of Schedule 13 agreements are being published by **tie** Limited.

Activities Planned for Next Reporting Period

- AMIS MUDFA preliminaries to be revisited to support agreed Construction Services, Revision 06.
- **tie** Limited and AMIS MUDFA to finalise and bind all commercial agreements for formal execution.
- Resolution and execution of MUDFA Contract Agreement in relation to Schedule 4 (i.e. Bill of Quantities and agreed Addendum to Preambles to reflect AMIS MUDFA CARP submission).
- Formal acceptance, by **tie** Limited, of agreements and technical requirements of the Demarcation Schedule submitted in February 2007 (**tie** Limited agreed to provide response by 25th October 2007). Now critical to operations and delivery, i.e. cable jointing, etc (i.e. Risk Management).

Areas of Concern & Key Highlights

- Advanced procurement of materials (AMIS MUDFA considers high risk due to lack of technical definition and design details, and no Bill of Materials produced by SDS Provider).
- Incorporation of **tie** Limited Statutory Utility Company agreements into the MUDFA Contract under Clause 46 (Still outstanding).
- Magnitude of change deemed excessive when measured against the Tender programme, Schedule 4 Bill of Quantities, and the IFC design drawings by SDS Provider (i.e. Incorrect, inaccurate and insufficient).
- Development of a jointly agreed “Method of Measurement” considered critical to commercial success and to alleviate protracted arguments and dispute resolution action.

8. Future Business Opportunities & Developments

- Potential INFRACO Civil / Track Form construction works (£140 to 160 Million).



Infrastructure Services



MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- Leith Walk Central Reservation Removal : Approximately £400k.
- St. David Street (North/South) : Approximately £950k (Under Review).
- Morrison Street Trial Holes : Approximately £26k.
- Morrison Street Main Utility Works : Approximately £550k.
- Cable Jointing and Cap Ending (CDM Obligation) : Approximately £1.75M.

Appendices :

1. Construction Services – Section 1A WSI 003/002 “S” Curve (1 Page)
2. Construction Services – Section 1B WSI 001/002 “S” Curve (1 Page)
3. Construction Services – Section 5A WSI 008/002 “S” Curve (1 Page)



Infrastructure Services



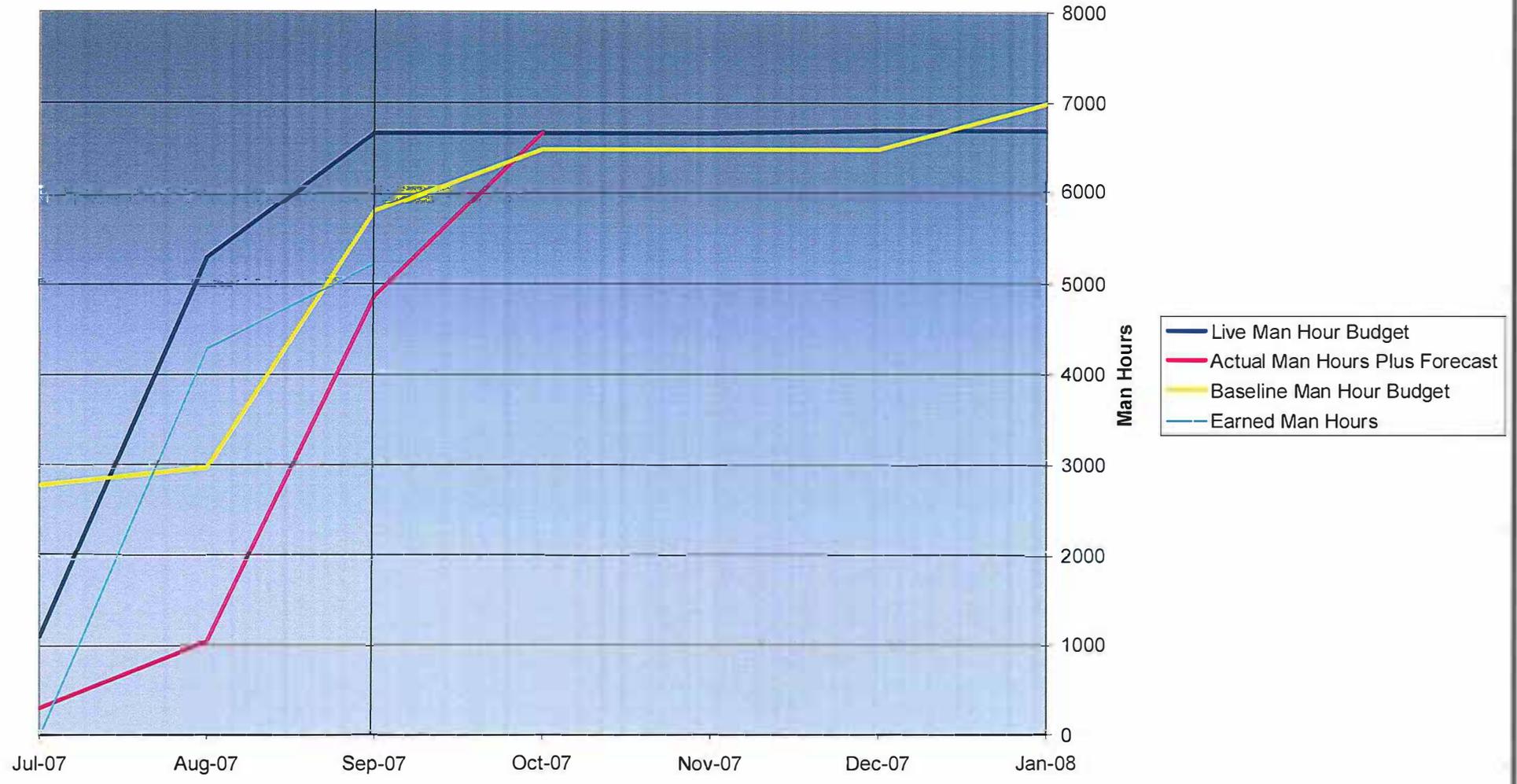
MULTI-UTILITY DIVERSION FRAMEWORK AGREEMENT (MUDFA)

- St. David Street (North/South) : Approximately £950k (Under Review).
- Morrison Street Trial Holes : Approximately £26k.
- Morrison Street Main Utility Works : Approximately £550k.
- Cable Jointing and Cap Ending (CDM Obligation) : Approximately £1.75M.

Appendices :

1. Construction Services – Section 1A WSI 003/002 “S” Curve (1 Page)
2. Construction Services – Section 1B WSI 001/002 “S” Curve (1 Page)
3. Construction Services – Section 5A WSI 008/002 “S” Curve (1 Page)

1A WSI 003/002 Man Hour Data
28th September 2007

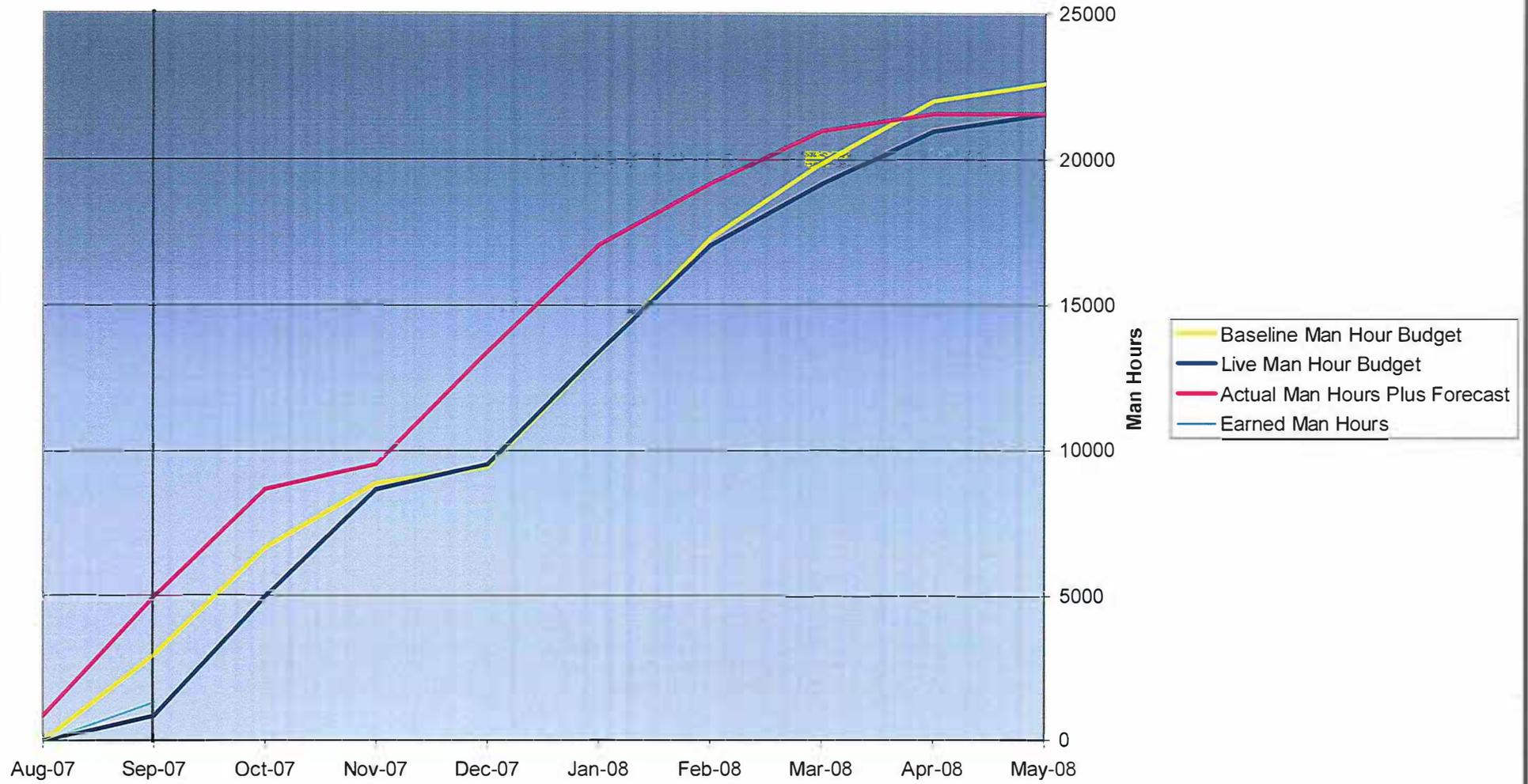


CEC01684924_0021

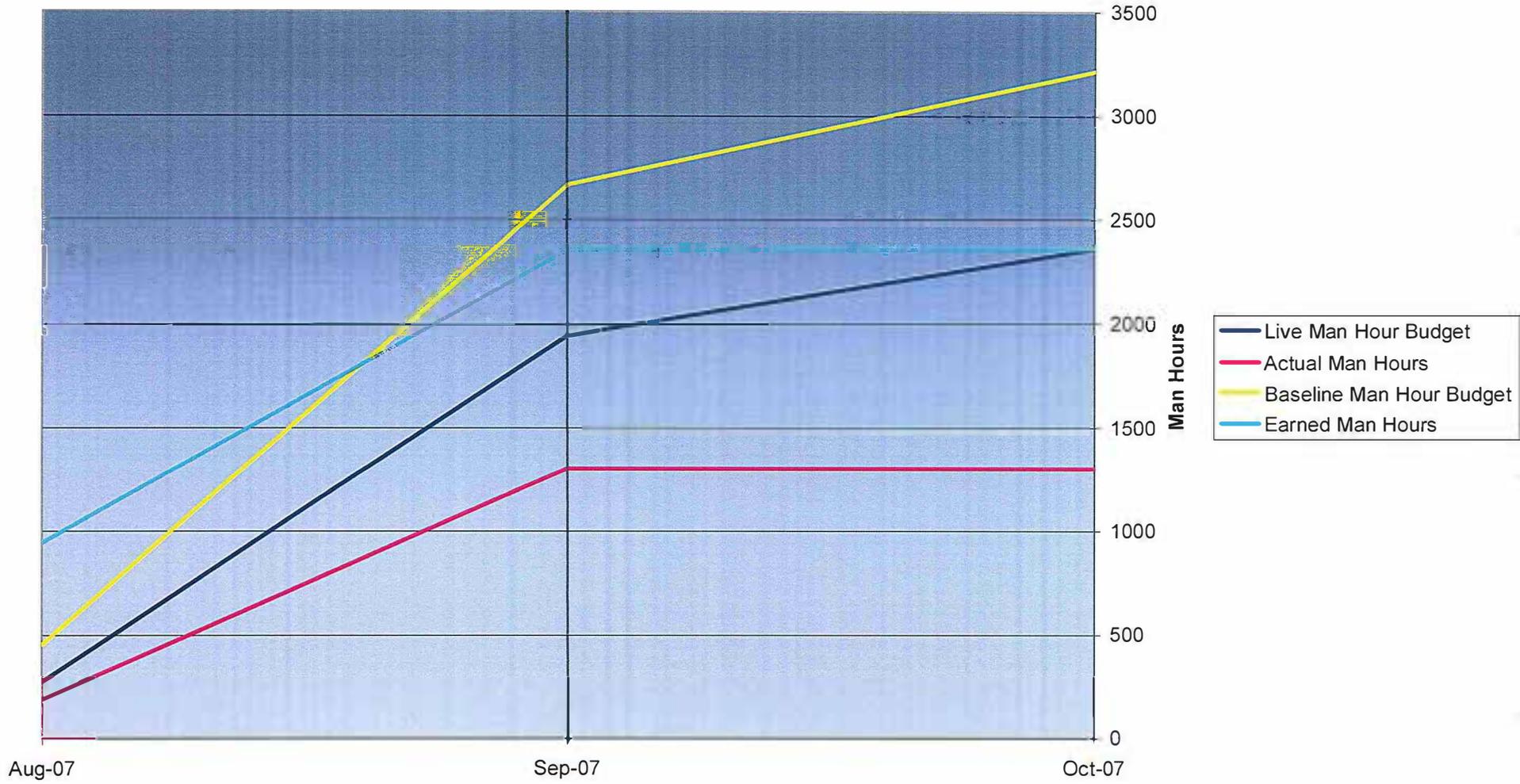
19/21

APPENDIX 1 (SHT 1/1)

1B WSI 001/002 Man Hour Data
28th September 2007



5A WSI 008/002 Man Hour Data
28th September 2007



APPENDIX 3 (SHT 1/1)

CEC01684924_0023

21/21