

**Critical Issues Register. Colour Coded for High, Medium and Low Design Impact.
Cleared Issues - Grey shading, Agreed and awaiting formal notice - Blue shading**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000																
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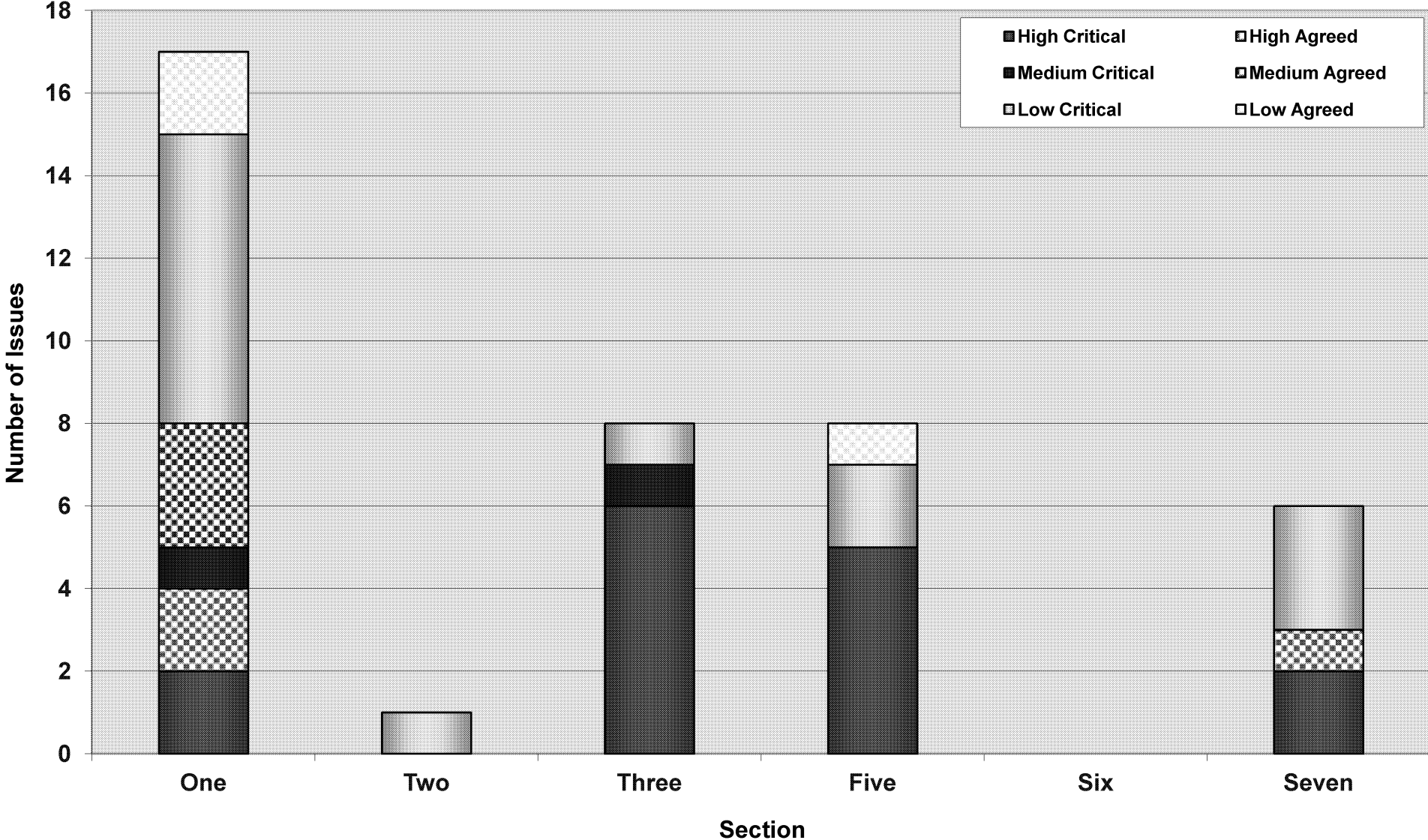
**Critical Issues Register. Colour Coded for High, Medium and Low Design Impact.
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P	A	B	C	D	E			F		G		H		K	L	M					
					Priority Considerations, Impact on:-			Dates		SDS Owner	Action	High				Medium		Low			
					Design Time Low < 10days Medium 10 - 20 days High > 20 days	Approvals/Consents Low < 10days Medium 10 - 20 days High > 20 days	CAPEX Low < £50k Medium £50k - £250k High > £250k	Client notified	Forecast Clear			Cleared	Critical			Agreed	Critical	Agreed	Critical	Agreed	
Index	Sub Section	Issue	High	Medium	Low	Yes - various letters and RFI's	Yes - ULE90130-03-RFI-00016 (open)	19/04/2007	Structures	Risk to tie/ INFRACO. Letter required ?	0	0	0	0	0	0					
54	3A /5	3A	HOLIDAY INN ACCESS BRIDGE "AS-BUILT" REQUESTED. RFI SUBMITTED 20/11/06.	Potential Low	Potential Low	Potential Medium	Yes - ULE90130-03-RFI-00016 (open)				Structures	Risk to tie/ INFRACO. Letter required ?	0	0	0	0	0	0			
55	3A /6	3A	ARTIFICIAL BADGER SETT LAND OWNERSHIP RFI SUBMITTED 27/11/06	Medium	Medium	Low	Yes - ULE90130-03-RFI-00018 (open)	19/04/2007	Environmental	Artificial sett location established in Parliament and outwith LOD	0	0	0	0	0	0	0	0			
56	3A /7	3A	DRY LAW DRIVE - CONFIRMATION REQUIRED FROM TIE THAT EXISTING BRIDGE CAN BE REMOVED. SDS ISSUED RFI 21/11/06.	Low	Low	Low	Yes - ULE90130-03-RFI-00017 (open)	19/04/2007	Structures	RED removed. Confirmation of demolition rights should be a formality but requires legal check	0	0	0	0	0	0	0	0			
57	3A /8	3A	VEHICLE ACCESS FOR MAINTENANCE - BELIEVE BEST SOLUTION IS FOR OPERATOR/INFRACO TO MAINTAIN WHOLE CORRIDOR (RFI IN CYCLEWAY). CEC TO CONFIRM VEHICLE REQUIREMENTS. RFI SUBMITTED 29/10/06.	Medium	Medium	Medium	Yes - ULE90130-03-RFI-00027 and 30 (open)	19/04/2007	Roads	Maintenance strategy to be agreed. SDS to prepare paper for review and tie/CEC consultation	0	0	0	0	0	0	0	0			
58	3A /9	17	3A	NOISE BARRIER/ENCE DESIGN ONGOING. DIFFERENCES IN DESIGN CRITERIA DEMANDED BY ES AND N & V POLICY. EXTENT OF MEASURES REQUIRED AND OTHER CONFLICTING ISSUES (e.g. AMENITY, ENVIRONMENT/ HABITAT APPROVAL) - HUGEY DEPENDANT ON DESIGN CRITERIA TO BE USED. LETTER TO TIE 21/12/06	High	High	High	Yes - various letters and RFI's			Noise and Vibration		1	0	0	0	0	0			
59	3A /10	18	3A	NOISE LEVELS FOR TRAM REQUIRED - POTENTIAL SIGNIFICANT EFFECT ON LEVELS OF NOISE MITIGATION REQUIRED. RFI 16/11/06 & RFI 21/12/06	High	High	High	Yes RFI's			Noise and Vibration		1	0	0	0	0	0			
60	3A /11	3A	REQUEST - STOPPING FOR TRAMS - REQUIRED. SPEED & NOISE IMPLICATIONS? RFI SUBMITTED 23/11/06	Low	Low	Low	Engineering Manager to advise status	25/01/2007	SC&C	Engineering Manager to advise status. Resolved via response to ULE90130-03-RFI-00020	0	0	0	0	0	0	0	0			
61	3A /12	19	3A	ENVIRONMENTAL DISTURBANCE TO TREES ETC. CEC SUPPORT COMPLETE REMOVAL (APART FROM HEALTHY TREES CLEAR OF TRAMWAY) PR & BETTERMENT ISSUE. CEC DO NOT SUPPORT COPPING. DUE TO MAINTENANCE ISSUES. DELAY LHMP SUBMISSION AGREED WITH CEC. TO BE RESOLVED INTERNALLY WITH SDS & TIE. INTERIM COPY SUBMITTED FOR DISCUSSION	High	High	High	Yes - LHMP submission	Yes	Environmental	ROR received 26 Feb 2007. Letter from CEC recvd 07 March 2007 with comments on preliminary submission. Meeting to resolve issues occurred 27 March 2007. PB to respond to CEC letter to seek confirmation that key issues have been resolved	0	0	0	0	0	0	0	0		
62	3B /1	3B	New item raised in CEC meeting 09/03/07 - West Granton Access. CEC wish to engage SDS and tie Stakeholder Management team re public consultation for new developers - SDS to contact Linda Nicol as per request from Duncan Fraser	Medium	Low	Low		19/04/2007		New item - SDS to review request at meeting. Medium priority	0	0	0	0	0	0	0	0			
63	3B /2	3B	ROSEBURN CORRIDOR LIAISON REQUIRED WITH HMRI CAUSING DELAYS BRIDGE PROTECTION & DEMARCATION ISSUES.	REPEATS PREVIOUS ITEM									0	0	0	0	0	0			
64	3C /1	3C	MCKEN SUPERMARKET - PREDICTED TRAFFIC FLOWS & PROPOSED UTILITY CHANGES. RFI SUBMITTED 5/12/06	Low	Low	Low	Yes - RFI						0	0	0	0	1	0			
65	3C /2	3C	WEST HARBOUR ROAD - CONFIRMATION OF CEC REQUIREMENTS FOR CLOSING OF ACCESSES AND PROVIDING ALTERNATIVE ROUTE TO PICKFORDS. RFI SUBMITTED 13/11/06 and 28/02/07. TIE HAVE MET WITH TENANTS ALONG WHR. SDS REQUEST OUTCOME OF DISCUSSIONS	Medium	Medium	High	Yes - RFI	19/04/2007		Requires adding to TR0 register. Alternative access may be required, subject to consultation. See ULE90130-03-RFI-0010 and ULE90130-03-RFI-0032	0	0	0	0	0	0	0	0			
66	3C /3	20	3C	GRANTON TERMINUS ARRANGEMENT - CONFIRMATION OF PREFERRED LAYOUT. EXISTING & PROPOSED ACCESSES SEVERELY CONSTRAINED SOLUTION.	High	Medium	Medium	Yes - RFI					1	0	0	0	0	0			
67	3C /4	21	3C	GRANTON SQUARE - CONFIRMATION OF POTENTIAL ADDITIONAL SCOPE TO REDEVELOP GRANTON SQUARE. RFI SUBMITTED 14/11/06	High	High	High	Yes - RFI response received. Change to be notified by tie				tie to instruct change/addition to scope	1	0	0	0	0	0	0		
68	3C /5	3C	RED SUBSTATION CONFIRMATION OF ACCEPTANCE OF LOCATION OF SUBSTATION IS REQUIRED TO PROGRESS DETAILED DESIGN. DRAWINGS SENT TO CEC ON 14/12/06	Low	Low	Low	Written confirmation of Red status removal	14/03/2007		Granton View Substation. Confirmation of RED removed now recvd.	0	0	0	0	0	0	0	0			
69	5A /1	22	5A	SIDE AGREEMENT WITH SRU STILL NOT FINALISED/SIGNED. SDS REQUIRE AGREEMENT TO PROCEED AND CHANGE ORDER FOR ADDITIONAL DESIGN WORKS. SDS WORKING AT RISK UNTIL SIDE AGREEMENT RESOLVED. REVISED ACCOMODATION WORKS AND OPTIONS REPORT ISSUED OT TIE AND SRU ON 29/01/07 AS REQUESTED - NO COMMENTS RECEIVED FROM TIE TO DATE	High	High	Medium	30-Nov		K Shudall	No RORs received from tie. tie to respond to SRU comments on Flood scheme. Network Rail design status. Construction durations. Change request CRT071 has been submitted and disputed.	1	0	0	0	0	0	0	0		
70	5A /2	5A	THE NEED TO ADVISE WHICH OF THE TWO PROPOSED FLOOD MITIGATION SCHEMES ARE REQUIRED IN THE VICINITY OF WATER OF LEITH TO SRU STADIUM. DESIGN OF RETAINING WALL ON HOLD. LETTER SENT TO TIE 26/09/06. RFI SENT TO TIE 29/11/06.	Medium	High	Low	26/09/2006	23/03/2007	K Shudall	confirmation of flood scheme is resolved as of 19/03/07 but SDS still require direction as to how the scheme affects Tram	0	0	0	0	0	0	0	0			
71	5A /3	23	5A	GI WORKS ON CONTAMINATED LAND AT HAYMARKET DEPOT TO ROSEBURN ST. ENVIRONMENTAL RISK ASSESSMENT SENT TO TIE 14/12/06. TIE TO DETERMINE WHETHER TO PROCEED WITH SURVEY - AWAITING RESPONSE	High	Low	High	14/12/2006	01/03/2007	C Macdonald	Access restriction came from Scotrail due to ongoing work at depot, which prohibited access until Feb 07. Environmental Risk Assessment response from tie now received	0	0	0	0	0	0	0	0		
72	5B /1	24	5B	AWAITING NMR/TIE/SDS AGREEMENT FOR ALIGNMENT/BRIDGE DESIGN - AFFECTS MURRAYFIELD TRAINING PITCHES, BAIRD DRIVE RETAINING WALL, BALGREEN ROAD RETAINING WALL, STOP & SUBSTATION ALL ON HOLD. LETTER SENT TO TIE 09/11/06. REPORT SENT TO TIE 21/12/06 FOR NMR & SCOTTISH EXECUTIVE. LETTER ISSUED TO TIE REITERATING CLARIFICATION ON ALIGNMENT - PRESENTED TO HMRI ON 26/02/07	High	High	High	09/11/2006		M Hassett	tie to respond to SDS letter of 12 Feb 07.	1	0	0	0	0	0	0	0		
73	5B /2	5B	DESIGN DELAYED DUE TO CHARETTE. DESIGN NOW TO PROGRESS AS PER PD WITHOUT CYCLEWAY & WITH REVISED HORIZONTAL ALIGNMENT. THE NEED TO ISSUE INSTRUCTION ON ALIGNMENT ASAP	High	High	High	05/02/2007		C Walker	Will be abortive work from 10 Jan 07 to date of issue of change.	1	0	0	0	0	0	0	0			

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Index	Sub Section	Issue	Priority Considerations. Impact on:			Dates		Client notified	Forecast Clear	Cleared	SDS Owner	Action	Comments	High		Medium		Low					
			Design Time	Approvals / Consents	CAPEX	Client notified	Forecast Clear							Cleared	SDS Owner	Action	Comments	Critical	Agreed	Critical	Agreed	Critical	Agreed
			Low < 10days Medium 10 - 20 days High > 20 days	Low < 10days Medium 10 - 20 days High > 20 days	Low < £50k Medium £50k - £250k High > £250k																		
74	5B / 3	5B	Low	Low	Low	19-Jan			I Brown	Agreed	Still a 'red' until response received		0	0	0	0	0	0	1				
75	5B / 4	25	5B	High	High	High	23-Feb		C Walker		Follow-up meeting has not yet been arranged, as of Thursday 1 Mar 07. Design on hold until a consensus is agreed at CEC, to be to chase CEC for agreement	1	0	0	0	0	0	0	0				
76	5B / 5	26	5B	High	High	High	Jan-07		C Walker			1	0	0	0	0	0	0	0				
77	5B / 6	5B	Low	Low	Low	10/11/2006			K Shudall			0	0	0	0	0	1	0	0				
78	5B / 7	5B	Low	Low	Low		01/02/2007		D Pluse		response received	0	0	0	0	0	0	0	0				
79	5C / 1	5C	Low	Medium	Low	19/12/2006			P McQuade		he have sent a 'holding' response to the RFI on 28/1/07 stating that he will investigate whether the proposed solution is acceptable and will respond further in due course	0	0	0	0	0	1	0	0				
80	5C / 2	5C	Low	Low	Low	30/08/2006		19/02/2007	P McQuade		he have confirmed that the solution with anchors outside the LoD should be progressed. Extent of anchors is unchanged from preliminary design - SDS to confirm by letter	0	0	0	0	0	0	0	0				
81	7A / 1	7A	Low	Medium	Medium	Nov-06			L Hill		This is a change as RBS created the landscaping at Gogarburn stop without notification to tie/SDS. Trenching through the bunds is considerably more involved than trenching on flat land. Change request CRT087 was submitted to tie on 24/1/07. Informally advised that this is no longer required but require letter from tie	0	0	0	0	0	1	0	0				
82	7A / 2	27	7A	High	High	Low	Dec-06		K Shudall		RBS - SDS HAVE BEEN VERBALLY ADVISED BY TIE OF THE REQUIREMENT TO PROVIDE LANDMARK BRANDED TRAMSTOP. NO AGREEMENT IS IN PLACE TO CLARIFY WHAT APPROVALS OF THE TRAMSTOP ARE REQUIRED. NEW REQUIREMENT FOR SDS & TIE TO ISSUE SDS INSTRUCTION/CHANGE NOTICE. RBS DESIGN INPUT WILL AFFECT STOP DESIGN PROGRAMME. RESPONSE REQUIRED TO PROPOSED REVISED PROGRAMME. LETTER ULE90130-05-SWLET-00437	1	0	0	0	0	0	0	0				
83	7A / 3	7A	Low	Low	Low	Jan-07			T Jory		Delta junction at Ingliston is a new requirement. Tie to raise change notice	0	0	0	0	0	1	0	0				
84	7A / 4	7A	Low	Low	Low	28/11/2006			K Shudall		Detailed design of Ingliston P&R tramstop, substation and Newbridge future-proofing cannot commence until this is resolved	0	0	0	0	0	1	0	0				
85	7A / 5	28	7A	High	High	High	28/11/2006		C Walker		CEC to confirm with Alvin Barber HWY additional modelling is required	1	0	0	0	0	0	0	0				
86	7A / 6	29	7A	High	Low	Medium	25/09/2006		K Shudall	Agreed		0	1	0	0	0	0	0	0				
87	7A / 7	7A	Low	Low	Low		14/02/2007		A Dolan		# 56856 be ref 40-80-OLT-3403	0	0	0	0	0	0	0	0				
88	7A / 8	7A	Low	Low	Low		20/12/2006		K Shudall		Change Order received	0	0	0	0	0	0	0	0				

Critical Issues Resolution. Current Status by Section and Design Impact Risk

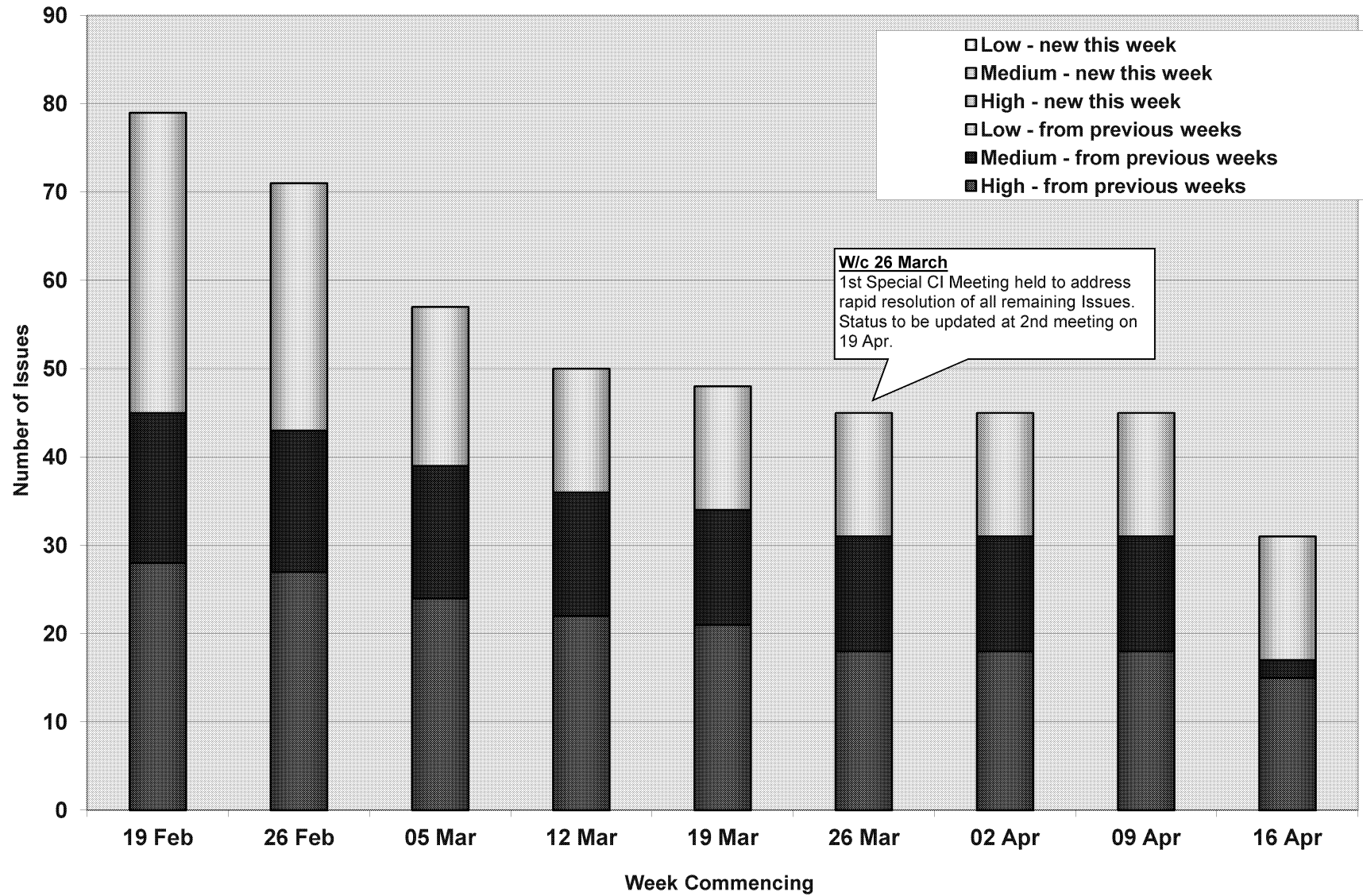


Date 18 April 2007

Data by Section

	A	B	C	D	E	F	G
1		High		Medium		Low	
2	Section	Critical	Agreed	Critical	Agreed	Critical	Agreed
3	One	2	2	1	3	7	2
4	Two					1	
5	Three	6		1		1	
6	Five	5				2	1
7	Six						
8	Seven	2	1			3	

Critical Issues Resolution. Trended Performance by Design Impact Risk



Date 20 April 2007

Critical Issues KPIs - Categorised by Design Impact

	A	B	C	D	E	F	G
1	date	High - from previous weeks	Medium - from previous weeks	Low - from previous weeks	High - new this week	Medium - new this week	Low - new this week
2	19 Feb	28	17	34			
3	26 Feb	27	16	28			
4	05 Mar	24	15	18			
5	12 Mar	22	14	14			
6	19 Mar	21	13	14			
7	26 Mar	18	13	14			
8	02 Apr	18	13	14			
9	09 Apr	18	13	14			
10	16 Apr	15	2	14			
11	23 Apr						

Date 13 March 2006