

**Table S1.2 Operating techniques**

Description	Parts	Date Received
<b>Phase 1</b>		
Working Plan dated February 1997	Excluding Sections : <ul style="list-style-type: none"> <li>• 5.14 Wastes</li> <li>• 5.4 Weighbridge</li> <li>• 5.8 Litter</li> <li>• 5.20 Fire</li> <li>• 5.21 Leachate Management</li> <li>• 5.24 Environmental Controls</li> <li>• 6.0 Monitoring</li> </ul> Excluding Appendices: <ul style="list-style-type: none"> <li>• K Litter Fencing</li> <li>• M Asbestos Handling Protocol</li> <li>• W Leachate removal</li> <li>• X Monitoring schedule</li> <li>• Y Groundwater sampling.</li> </ul>	February 1997
Working Plan amendment dated 14 August 2000 <small>Note 1</small>	Extraction of landfill gas for the production of electricity	14/08/2000
Golders Associates (UK)Ltd. Hydrological Risk Assessment; Withyhedge Landfill Site Phase 1, Version A.2, 07514290132.500 June 2008	Excluding Table HRA 34 (Groundwater Control and Trigger Levels)  Excluding 7.1.1.2 Leachate compliance limits for cells 1-10 and 12	12/06/08
Golders Associates (UK) Ltd. Leachate Management Plan; Withyhedge Landfill Site Phase 1, Version A.2, 07514290132.501, June 2008.	All	12/06/08
Letter Golders Associates (UK)Ltd Dated: 12 June 2008 reference: 07514290132.250	All	12/06/08
Letter Withyhedge Phase 1 Hydrogeological Risk Assessment and Leachate Management Plan. Golders Ref 07514290132.250 dated 3 October 2008	All  Table 1 Replaces table HRA 34	03/10/08
Document WHV5 Restoration Drawing <small>Note 1</small>		

Document WHV1/5 H1 Risk Assessment	Replaces Working Plan Sections: <ul style="list-style-type: none"> <li>• 5.4 Weighbridge</li> <li>• 5.8 Litter</li> <li>• 5.20 Fire</li> <li>• 5.24 Environmental Controls</li> </ul> Replaces Working Plan Appendices <ul style="list-style-type: none"> <li>• K Litter Fencing</li> </ul>	22/12/08
Drawing WHV/4 Site layout and waste deposit <sup>Note 1</sup>	All	22/12/08
Response to schedule 5 Notice	Answers to questions 16,17,18, 20,21	14/08/09
Response to schedule 5 Notice	Answers to questions 3,4,5,15	24/12/09
Document WHV12 Drawing showing extent of waste disposal in phase 1 and southern valley	All	24/12/09
Document WHV9/version 2	All relating to Phase 1 (Plan showing Environmental Monitoring Locations )	24/02/10
Document WHV1 Location Plan	All	28/05/10
Document WHV1/7 Revision 3 Environmental Monitoring	Excluding: <ul style="list-style-type: none"> <li>• Table 10 Leachate quality monitoring</li> <li>• Table 12 Groundwater Trigger Levels. requirements of phase 2 monitoring (as not relevant for this permit)</li> </ul>	15/06/10
<b>Phase 2 and Phase 3</b>		
Application	The responses to questions 1.3,1.4,2.1,2.2,2.3,2.4,2.5,2.7,2.8,2.9,2.11 and 3.1 in part B of the Application form	21 June 2005
Response to Schedule 4 Notice	<a href="#">Correspondence from Golders Associates (UK) Ltd. Reference:04529421.518/A.0 dated 31 January 2006.</a> Answers to questions 1 to 17 in response to Schedule 4 notice dated 20 December 2005.	22 February 2006
Further information <sup>Note 1</sup>	<a href="#">Correspondence from Golders Associates (UK) Ltd. Reference 04529421.250 dated 14 February 2006.</a>	15 February 2006
Addendum: Application for the gas utilisation plant	Correspondence from Golders Associates (UK)Ltd including the contents of all attachments .Reference 04529421.250,dated 27March 2006.This includes the response to questions B1,B2,B3,B4 and B5 of the Generic Part B Application Form provided as attachment 1.	28 March 2006

Variation Application (DP3439XC)- Amendments to Operating Hours	The response to Question C1.2 in part C of the Variation Application	13 December 2007
Pre operational condition S1.4A reference 1 (Area A)	<p>Section 4 "Report on Withyhedge Landfill Phase 2 construction of Cells 1 and 2 (North) CQA Plan" Reference 06529233.501/A.0, dated June 2006</p> <p>Section 4 "Report on Withyhedge Landfill Phase 2 construction of Cells 1 and 2 (North) CQA Plan" Reference 07514290178.501/A.0 dated July 2007</p> <p>Section 4 "Report on Withyhedge Landfill Phase 2 construction of Cell 3 CQA Plan" Reference 08514290077.500/A.0, dated June 2008.</p> <p>"Report on Hydrogeological Conceptual Model of Phase 2 of Withyhedge Landfill" Reference 06529234.512/A.0 dated 17 December 2007.</p> <p>Correspondence from Golders Associates (UK) Ltd. Reference 06529234.250 dated 8 May 2008</p> <p>Correspondence from Golders Associates (UK) Ltd. "Improvement Condition 7 and Hydrogeological conceptual model". Reference 08514290087.250, dated 24 September 2008.</p>	<p>July 2006</p> <p>30 July 2007</p> <p>11 June 2008</p> <p>17 December 2007</p> <p>8 May 2008</p> <p>24 September 2008</p>
Improvement Condition 4 – Site Protection Monitoring Plan	<p>Report "Site Protection and Monitoring Programme" dated November 2006 (Reference: 06529234.504/A.0)</p> <p>Correspondence from SITA UK, Reference: ka/wth/spmp01A, dated June 2008 (Includes Plan Reference "Wth-SPMP-0608" showing location of new leachate storage tanks)</p>	<p>9 November 2007</p> <p>18 June 2008</p>
Pre operational condition S1.4B Reference 4	Email from Golders Associated (UK) Ltd enclosing: Resource Management UK Ltd – Report detailing security arrangements at Withyhedge Landfill	20 November 2006
Improvement Condition 2 Submission – CQA for installed Boreholes Area A	<p>"Withyhedge Landfill November 2006 Groundwater Monitoring Boreholes CQA Report date February 2007, Reference 0652924.505/A.1</p> <p>Correspondence from Golders Associates (UK) Ltd. Reference 06529234.250 Dated 15 March 2006</p>	<p>28 February 2007</p> <p>16 March 2007</p>
Improvement Condition 5 Submission & Pre Operational Condition S1.4B Reference 2	Report of Surface Water Management Design, (Report reference 06529234.507/a.0)	<p>7 March 2007</p> <p>3 April 2007</p>

(Area A) – Surface Water Management Plan Review and proposed trigger levels Note 1	Correspondence from Golders Associates (UK) Ltd “Interim Control & Trigger Levels for D2 and D3” (Letter reference 06529234.250 dated 2 April 2007). Only section relating to the Action Plan is accepted.	
Improvement Condition 11 Submission – revised plan	Revised Plan “Section A: Environmental Setting and Installation Design” Drawing Number ESID 5 (dated 05/05/05 and revised 15 November 2006)	17 November 2006
Improvement Condition 8 Submission – Bird Management Plan Note 1	Email from Peter Newton, dated 9 October 2006, enclosing “Withyhedge Landfill: Bird Management Plan”	9 October 2007
Location of Landfill Gas Flare and Engine Emission monitoring points	Letter from RML, dated 2 October 2007 enclosing drawing showing new monitoring points “Compound Emission Points” Drawing reference : SN103/AB/004,date September 2004	4 October 2007
Improvement Condition 9 Submission – Air Modelling	Report on “Air Dispersion Modelling for Gas Compound” dated November 2006 ( Reference 06529234.503/A.0)	9 November 2006
Improvement Condition 10- Landfill Gas Management Plan	Report “Landfill Gas Management Plan” dated March 2007 (Reference: 06529234.506/A.0)	7 March 2007
Improvement Condition 3- leachate Management Plan	Report “Leachate Management Plan”, dated June 2007(Reference: 06529234.508/A.0) excluding sections 4.4 and 4.5 of the report	11 June 2007
Improvement Condition 7- Revised Groundwater Trigger Levels	Report “Groundwater Control and Trigger Levels” dated September 2008 (Reference: 08514290087.500/A.2) Correspondence from Golders Associates (UK) Ltd “Improvement Condition 7 and Hydrogeological conceptual model” (Letter reference 08514290087.250, dated 24 September 2008).	24 September 2008
Variation Application (EPR/BP3131SG/V003) Revision to HRA and Leachate Quality Monitoring for cells 1& 2 (North)	The response to question C1.2 and C2.3 in Part C of the variation application.	20 June 2008
Document WHV5 Restoration Drawing Note 1	All	22/12/08
Response to schedule 5 Notice	Answers to questions 16,17,18, 20,21	14/08/09
Response to schedule 5 Notice	Answers to questions 3,4,5,15	24/12/09
Document WHV9/version 2 Plan showing Environmental Monitoring Locations Note 1	All	24/02/10
Document WHV1 Location Plan Note 1	All	28/05/10

Document WHV1/7 Revision 3 Environmental Monitoring <sup>Note 1</sup>		15/06/10
Improvement Programme	All Reports and plans submitted and agreed with the Environment Agency as part of the Improvement Programme detailed in table S1.3 shall form part of the sites operating techniques.	See Improvement Programme Requirements detailed in table s1.3
Plan WHV9/rev 4– “Environmental Monitoring Locations” (dated 2/9/10) <sup>Note 1</sup>	All	02/09/10
Variation Application	All Responses to questions 2,3, 4 ,5,7 of Part c of the variation application Excluding Documents: WHV1/6 Waste types WHV1/7 Environmental Monitoring WHV9 Environmental Monitoring location plan WHV11 Drawing of liner detail	
Additional information via email from John Baxter to Grace Chillingworth	Reference to a geo - composite drain to be installed on slope of cell 13.	08/06/2009
Response to Schedule 4 notice- Letter dated 13/08/2009 and appendices	All	14/08/2009
Response to Schedule 4 notice Drawing WHV11 Drainage details	All	14/08/2009
Response to Schedule 4 notice – Letter dated 23 December 2009	Excluding : WHV1/7 Revision 1 WHV9 Revision 1	24/12/2009
Response to Schedule 4 Notice Drawing WHV12 Extent of tipping in Southern Valley	All	24/12/2009
Drawing WHV11 Revision A additional Liner detail	All	24/12/2009
Drawing WHV9 Revision 2 – environmental monitoring locations <sup>Note 1</sup>	All	24/02/2010
Drawing WHV1 Revision 2 – location plan <sup>Note 1</sup>	All	28/05/2010

Whv1/7 Environmental Monitoring Version 3	Excluding Table 10 reference to post closure monitoring	15/06/2010
Drawing WHV9 Revision 4 – environmental monitoring locations Note 1	All	02/09/2010
Drawing Whg-PCA-0411-01 A1 & A3.pdf - plan showing area to be capped in the southern flank of Phase 1	All	05/04/2011
Pre-operational condition S1.4A reference 1 (Area A)	<p>Section 4 “Report on Withyhedge Landfill Phase 2 construction of Cells 1 and 2 (North) CQA Plan” Reference 06529233.501/A.0, dated June 2006</p> <p>Section 4 “Report on Withyhedge Landfill Phase 2 construction of Cells 1 and 2 (North) CQA Plan” Reference 07514290178.501/A.0 dated July 2007</p> <p>Section 4 “Report on Withyhedge Landfill Phase 2 construction of Cell 3 CQA Plan” Reference 08514290077.500/A.0, dated June 2008.</p> <p>“Report on Hydrogeological Conceptual Model of Phase 2 of Withyhedge Landfill” Reference 06529234.512/A.0 dated 17 December 2007.</p> <p>Correspondence from Golders Associates (UK) Ltd. Reference 06529234.250 dated 8 May 2008</p> <p>Correspondence from Golders Associates (UK) Ltd. “Improvement Condition 7 and Hydrogeological conceptual model”. Reference 08514290087.250, dated 24 September 2008.</p>	<p>July 2006</p> <p>30 July 2007</p> <p>11 June 2008</p> <p>17 December 2007</p> <p>8 May 2008</p> <p>24 September 2008</p>
Improvement Condition 4 – Site Protection Monitoring Plan	<p>Report “Site Protection and Monitoring Programme” dated November 2006 (Reference: 06529234.504/A.0)</p> <p>Correspondence from SITA UK, Reference: ka/wth/spmp01A, dated June 2008 (Includes Plan Reference “Wth-SPMP-0608” showing location of new leachate storage tanks)</p>	<p>9 November 2007</p> <p>18 June 2008</p>
Pre operational condition S1.4B Reference 4	Email from Golders Associated (UK)Ltd enclosing: Resource Management UK Ltd – Report detailing security arrangements at Withyhedge Landfill	20 November 2006
Improvement Condition 2 Submission – CQA for installed Boreholes Area A	“Withyhedge Landfill November 2006 Groundwater Monitoring Boreholes CQA Report date February 2007, Reference 0652924.505/A.1	<p>28 February 2007</p> <p>16 March 2007</p>

	Correspondence from Golders Associates (UK) Ltd. Reference 06529234.250 Dated 15 March 2006	
Improvement Condition 5 Submission & Pre Operational Condition S1.4B Reference 2 (Area A) – Surface Water Management Plan Review and proposed trigger levels Note 1	Report of Surface Water Management Design, (Report reference 06529234.507/a.0)	7 March 2007
	Correspondence from Golders Associates (UK) Ltd “Interim Control & Trigger Levels for D2 and D3” (Letter reference 06529234.250 dated 2 April 2007). Only section relating to the Action Plan is accepted.	3 April 2007
Improvement Condition 11 Submission – revised plan	Revised Plan “Section A: Environmental Setting and Installation Design” Drawing Number ESID 5 (dated 05/05/05 and revised 15 November 2006)	17 November 2006
Improvement Condition 1a & b - Operational Techniques	SITA Report: “Review of Operational Documents” – March 2011	2011 - 2012
	SITA Documents:	
	WTH/01 – Waste Types – Version 2 <sup>Note 1</sup>	
	<ul style="list-style-type: none"> <li>WTH/02 – Waste Acceptance Procedures.</li> </ul>	
	Including subsequent amendments set out in Environment Agency email (and attachment) dated 11th May 2011 15:33 <sup>Note 1</sup>	
	<ul style="list-style-type: none"> <li>WTH/03 – Waste Deposit and Emplacement</li> </ul>	
	Procedures – Version 2	
	WTH/07 Monitoring Management Plan – version 3 <sup>Note 1</sup>	
	WTH/08 Security Arrangements	
	WTH/09 Storage and Sub-surface structures inspection and maintenance - Version 1	
	WTH/10 Particulate matter management and monitoring - Version 1	
	WTH/11 – Odour Monitoring - Version 2	
	WTH/12 Dirt and Mud management and monitoring – Apr 2011	
	WH/13 – Litter Management and Monitoring – Version 1	
	WTH/14 Bird, vermin and insect management and monitoring - Version 1	
WTH/15 Noise and vibration management and monitoring - Version 1		
WTH/16 Meteorological monitoring plan - Version 1		
WTH/17 Landfill body monitoring plan - Version 1		
WTH/18 – Aftercare Management Plan – Version 1.1		

	WTH/19 Technically competent management- Version 1	
	WTH/20 – Accident Management Plan -Version 1	
	WTH/21 – Containment, Engineering and Stability Management – Version 1	
Improvement Condition 7b (partial) – Revised Groundwater Trigger Levels and assessment Limits	ESI Report “Withyhedge Landfill Environmental Permit Compliance Limit and Control Level Review” submitted 16th March 2012;	March 2012
GW Trigger Review Response to Agency Comments	Email attachment “GW Trigger Review Response to Agency Comments.docx”, enclosed in email from Emma Gale, dated 5th September 2012, 17:00	September 2012
Further information	Email from Andrew Jones dated 2nd January 2013, 11:25	January 2013
Improvement Condition 2 submissions: - Leachate Extraction Cells 1 to 10	Report Golders Associates (UK) Ltd Dated: September 2011 reference: 11514290005.501/A.1 (Section relating to Leachate extraction volumes for Cells 1 to 10 and Cell 12)  Letter Golders Associates (UK)Ltd, Dated: 13 December 2011 reference: 11514290005.250	September 2011  December 2011
Landfill Gas IC 4 – Carbon Dioxide Assessment Levels	SITA Report: “Perimeter borehole gas compliance limit review” – September 2011	21 September 2011
Further information	Email (and attachments) from Andrew Jones, dated 26 March 2012 16:01 – additional data	26 March 2012
Landfill Gas Management Plan	Withyhedge Gas Management Plan (and appendices) – January 2014	February 2014
Landfill Gas IC 3 – Carbon Dioxide Assessment Level for BH24 to BH 28.	25th of October 2013 (“Withyhedge Landfill Site – Landfill Gas Compliance Limit and Requisite Surveillance Review – October 2013”).  NOTE: Assessment Limits for CO2 only. Proposed Methane limits were not accepted.	October 2013
Improvement Condition 9 submissions – Landfill Gas Risk Assessment	SITA Report and appendices: Landfill Gas Generation and Risk Assessment – May 2013 (1752/R/003/1)	1st May 2013
Improvement Condition 8 submissions: - Leachate Management Review	SITA Report – Leachate Management Plan - September 2011  Note: This is a review of the leachate infrastructure and not a Leachate Management Plan	September 2011
Improvement Condition 7a (partial) – HRA consolidation	SITA Report “Consolidated Hydrogeological Risk Assessment” – November 2010 – WH/CHRA/V1.0	2nd November 2010
	SITA report “Consolidated Hydrogeological Risk Assessment” - Version 2 (WH/CHRA/V2.0). Received 18th and 23rd March 2012	June 2012

	SITA Memo," Withyhedge Improvement Condition 7a and 7b" dated 13th June 2013 "" emailed by Lynne Malpass 27th June 2013 11:11	June 2013
	Email and attachments from Andrew dated 24th April 2014 11:13	April 2014
Construction of Valley Cell and Cell 13 Infrastructure (pre-operational submissions)	Terraconsult Letter (Ref:2185/L/001) dated 10th March 2015	19th March 2015
	Email and attachments from Jim Waterworth (Terraconsult) Dated: 13th April 2015, 11:45	13th April 2015
	Email and attachments from Phil Roberts (Terraconsult) Dated: 28th April 2015 13:40	28th April 2015
	Email and attachments from Jim Waterworth (Terraconsult) Dated: 19th June 2015, 15:37 "Waste Placement and Capping Phasing" Ref: 2185/5/001 – Date 06/15.	19th June 2015
	Email and attachments from Jim Waterworth (Terraconsult) Dated: 2nd September 2015, 11:39	2nd September 2015
	RML Letter: (Ref: DNW250915) from David Williams, dated 25th September 2015 – request to delay installation of enhanced Cell 13 leachate well.	14th October 2015

Note 1: these no longer form part of the permit's operating techniques as they have been reviewed and confirmed as either out of date or superseded