ENTEROTESTER TEMPLATE

Simple Step by Step Instructions

Note: These instructions have been designed for the **Enterotester V200** and **V677 templates** (Refer to: <u>http://www.public.health.wa.gov.au/3/1287/2/publications.pm</u>). They may not be compatible with other Enterotester template versions!

Step 1

- A) Open a new Excel worksheet within an Excel workbook and enter or copy into the worksheet all of your bacterial enterococci sample results and relevant information.
- B) Organise all sample results by the order of their respective site location/site code.

Note: It is best to open a new worksheet for each site location/site code set of results!

- C) Organise the sample results for each site location/site code from left to right in the order of 'collection date' and then 'result'. The order of other fields is not important, as date and enterococci value are the only 2 fields that will be copied into the Enterotester template (see Example pg 2).
 - **Note:** A minimum of 8 sample results for a particular site location/site code is required to initiate the 'Enterotester template'. However, the reliability and confidence of data output (i.e. 95th percentiles and accompanying trigger levels), with only 8 samples will be significantly reduced!

In reality it is better to have many more samples. The Department of Health – Western Australia, recommends a minimum of 65 samples, collected from a particular site location over 5 consecutive years, to provide sufficient confidence and reliability in the 95th percentile data output.

Example of Excel Worksheet for Specific Site Location ordered by Collection Date and then Enterococci Result

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20	29 Nov-05	3	EV3/333	Diver East Dank		50	Confirmed Enterococci	MPN/100 mL
40	21-Dec-05	52	EV3/533	River Fast Bank		52	Confirmed Enterococci	MPN/100 mL
41	10-Jap-06	20	EV3/599	Biver East Bank		20	Confirmed Enterococci	MPN/100 mL
42	23-Jan-06	86	EV3/599	River East Bank		86	Confirmed Enterococci	MPN/100 mL
43	06-Feb-06	51	EV3/599	River East Bank		51	Confirmed Enterococci	MPN/100 mL
44	20-Feb-06	20	EV3/599	River East Bank		20	Confirmed Enterococci	MPN/100 mL
45	10-Mar-06	31	EV3/599	River East Bank		31	Confirmed Enterococci	MPN/100 mL
46	28-Mar-06	31	EV3/599	River East Bank		31	Confirmed Enterococci	MPN/100 mL
47	04-Apr-06	10	EV3/599	River East Bank		10	Confirmed Enterococci	MPN/100 mL
48	27-Apr-06	74	EV3/599	River East Bank		74	Confirmed Enterococci	MPN/100 mL
49	06-Nov-06	31	EV3/599	River East Bank		31	Confirmed Enterococci	MPN/100 mL
50	20-Nov-06	74	EV3/599	River East Bank		74	Confirmed Enterococci	MPN/100 mL
51	04-Dec-06	<10	EV3/599	River East Bank	×	10	Confirmed Enterococci	MPN/100 mL
52	18-Dec-06	20	EV3/599	River East Bank		20	Confirmed Enterococci	MPN/100 mL
53	10-Jan-07	10	EV3/599	River East Bank		10	Confirmed Enterococci	MPN/100 mL
54	22Jan-07	31	EV3/599	River East Bank		31	Confirmed Enterococci	MPN/100 mL
33	10 F-E 07	120	EV3/533	River East Bank		120	Confirmed Enterococci	MPN/100 mL
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61	23-Apr-07	<10	EV3/599	Biver East Bank	1	10	Confirmed Enterococci	MPN/100 mL
62	23-Apr-07	30	EV3/599	River East Bank		30	Confirmed Enterococci	MPN/100 mL
63	05-Nov-07	<10	EV3/599	River East Bank	<	10	Confirmed Enterococci	MPN/100 mL
64	13-Nov-07	10	EV3/599	River East Bank		10	Confirmed Enterococci	MPN/100 mL
65	20-Nov-07	<10	EV3/599	River East Bank	R	10	Confirmed Enterococci	MPN/100 mL
66	03-Dec-07	31	EV3/599	River East Bank		31	Confirmed Enterococci	MPN/100 mL
67	11-Dec-07	<10	EV3/599	River East Bank	×	10	Confirmed Enterococci	MPN/100 mL
68	02-Jan-08	<10	EV3/599	River East Bank	3	10	Confirmed Enterococci	MPN/100 mL
69	03-Jan-08	41	EV3/599	River East Bank		41	Confirmed Enterococci	MPN/100 mL
70	09-Jan-08	30	EV3/599	River East Bank		30	Confirmed Enterococci	MPN/100 mL
71	14Jan-08	<10	EV3/599	River East Bank	<	10	Confirmed Enterococci	MPN/100 mL
72	22-Jan-08	<10	EV3/599	River East Bank	<	10	Confirmed Enterococci	MPN/100 mL
73	05-Feb-08	<10	EV3/599	River East Bank	<	10	Confirmed Enterococci	MPN/100 mL
74	14-Feb-08	<10	EV3/599	River East Bank	~	10	Confirmed Enterococci	MPN/100 mL
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82	12-Nov-08	10	EV3/599	Biver East Bank	S	10	Confirmed Enterococci	MPN/100 mL
83	25-Nov-08	74	EV3/599	Biver East Bank		74	Confirmed Enterococci	MPN/100 ml
84	03-Dec-08	10	EV3/599	River East Bank		10	Confirmed Enterococci	MPN/100 ml
85	09-Dec-08	20	EV3/599	River East Bank		20	Confirmed Enterococci	MPN/100 mL



Water Unit

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- **D)** Double click on the Enterotester template to open a new workbook.
- E) Click on the 'Enable Macros' button (This is the middle button see below).



Step 3

- A) Read the Terms of Use Agreement (see pg 4).
- B) Click on the 'Yes' button (see pg 4) to accept Terms of Use Agreement.



Delivering a Healthy WA



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18 Terms of Use Agreement	
19	
20 By using the Enterotester Template and Instructions you are agreeing to comply with, and be bound by,	
2' the following Terms of Use. Please review the following Terms of Use parefully. If you do not agree to these	
22 Terms, you should not use the Template or Instructions.	
23	
24 1) This Agreement is between you and the State of Western Australia, represented by the Western Australian	
25 Department of Health. All communication in respect of this Agreement will be to the Envronmental Health	
26 Directorate, Western Australian Department of Health (Altri: Mr Jared Koutspukcs), PO Box 8172, Perth	
27 Business Centre, Western Australia E849, AUSTRALIA (or e-mail to jared koutsoukcs@health.wa.cov.au)	
28 2) The material subject to the present Agreement is designated as the Enterotester Template.	
29 3) You agree to recognise and acknowledge the ownership by the State of Western Australia, represented by 20 Abold Statem Australian Department of a still a state of a wind to the Enterplate the Template in some during	
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34 b) The Entstotester Fishplate is not to be reproduced of dset to lang continent a purposes without the winter	
36 grant the nermission	
37 (5) You agree to advise the Western Australian Denartment of Health of any modifications that may be made	
38 to the Enterotester Template, and to allow it access to the new material, if requested	
39 7) You agree not to provide the Enterctester Template to any third party. Any requests from other parties for	
40 access to the Enterctester Template will be referred to the Western Australian Department of Health.	
4 3) All information and content provided in the Enterotester Template is given in good faith by the Westerr	
42 Australian Department of Health, and is believed to be reliable and accurate at the time of cevelopment.	
43 The State of Western Australia the WA Department of Health and their respective officers, employees and	
44 agents, do not accept legal liability or responsibility for the Enterctester Template, or any consequences	
45 arising from its use.	
46 Terms of Use	
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48 You must first accept these Terms of Use to operate the	
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50 To avoid seeing this message again, save the template with	
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Read the pop-up dialogue box and click 'OK' (see pg 5).



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Delivering a **Healthy WA**



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13	1. Paste data to	be assessed in	the vellow cell	s. The microbio	ogical concentr	ations should	start at B24. For	the time being.	Suggested			35	0.03177
14	these concer	trations should	be in the form	of a continuous	. single-column	array, not exce	eding 200 observ	vations.	Water Quality			36	0.03751
15	2. Data that are	shown as less t	han a value (e.;	g. <10) should be	entered with a	"<" sign. Con	nplete cell A21 if	desired.	one-off			37	0.04276
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17	3. When data er	ntry in columns	A and B is con	plete, click the I	ix Data button	to adjust for ze	ro values or ties	(shown as pink)				39	0.05232
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19	0											41	0.06106
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22	Date of Observation	Concentration of organisms (cfu/100mL)	Descending Rank (from highest)	Sorted Observations	Cumulative Probability	Expected Values						43	0.07320 (
23	Fix	Data	Tri	gger Adj		Export	Undo	Reassign				45	0.07705
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- A) Select relevant data from worksheet with columns arranged in order by 'date' and then 'enterococci result'.
- **B)** Right-click mouse or press 'context-menu' key (to left of right Ctrl key) and choose 'Copy' from the shortcut menu, or press 'Control-C' using the keyboard.

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38		16-N	ov-05	9	EV3/599	River East Ba	ank	9	Confirmed Enterococci	MPN/100 mL
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55		05-F	eb-07	120	EV3/599	River East Ba	ank	120	Confirmed Enterococci	MPN/100 mL
56		19-F	eb-07	820	EV3/599	River East Ba	ank	820	Confirmed Enterococci	MPN/100 mL
57		08-M	lar-07	31	EV3/599	River East Ba	ank	31	Confirmed Enterococci	MPN/100 mL
58		19-M	lar-07	97	EV3/599	River East Ba	ank	97	Confirmed Enterococci	MPN/100 mL
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67		11.0	ec-07	/10	EV3/599	River East B	ank z	10	Confirmed Enterococci	MPN/100 mL
68		02-1	an-08	210	EV3/599	Biver East B	ank (10	Confirmed Enterococci	MPN/100 mL
69		03.1	an-08	41	EV3/599	Biver Fast Br	ank	41	Confirmed Enterococci	MPN/100 mL
70		09-1	an-08	30	EV3/599	River East Ba	ank	30	Confirmed Enterococci	MPN/100 mL
71		14.J.	an-08	<10	EV3/599	River East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
72		22-J.	an-08	<10	EV3/599	River East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
73		05-F	eb-08	<10	EV3/599	River East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
74		14-F	eb-08	<10	EV3/599	River East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
75		28-F	eb-08	10	EV3/599	River East Ba	ank	10	Confirmed Enterococci	MPN/100 mL
76		10-M	lar-08	<10	EV3/599	River East Ba	ank K	10	Confirmed Enterococci	MPN/100 mL
77		10-M	lar-08	<10	EV3/599	River East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
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79		27-M	ar-08	<10	EV3/599	River East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
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81		15-4	pr-08	<10	EV3/599	Hiver East Ba	ank <	10	Confirmed Enterococci	MPN/100 mL
82		12-N	80-vo	10	EV3/599	River East Ba	ank	10	Confirmed Enterococci	MPN/100 mL
83		20-Ni 03-D	80-Vo	(4	EV 3/599	River East Ba	ank	/4	Confirmed Enterococci	MPN/100 mL
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00		03-01	00-00	20	CA94099	niver East Ba	AL IN	20	Commed Enterococci	MENZ TOUTIL





Step 6.1

- A) Click back to Enterotester workbook.
- **B)** Press 'context-menu key' or right-click mouse on top left cell of yellow highlighted columns i.e. Row 24, Column A.
- C) Choose 'Paste' or 'Paste Special' from the shortcut menu. If the copied data has been concatenated (i.e. 2 cell values are merged to form 1 cell value), 'Paste Special' must be chosen.

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12	INSTRUCT	ONS	<u> </u>	0	L.		0		1	0	TX .	L.	34	0.02527
12	1. Dente data ta	0113 5	41	The second is the		ations and and dis		de e dine e de elle m	6				25	0.02177
14	1. Paste data to	be assessed in	i the yellow cell I have the form	s. The microbiol	ogical concentr	ations should s	start at B24. Por	une ume being,	Suggested Westen Onelity				36	0.03177
15	2 Data that are a	chown as less t	then e velue (e :	$\sigma < 100$ should be	, snigle-column	"s" eign Com	eung 200 00serv	decired	water Quanty				37	0.03751
16	This template	does not accor	nmodate data th	at are shown as	greater than a w	alue (e σ >10 f	1000 - hover cursi	aconca. ar here: X	Trigger Level				38	0.04270
17	 When data en 	ntry in columns	A and B is con	mlete, click the F	ix Data button t	to adjust for zer	ro values or ties	(shown as pink)	ingger herer				39	0.05232
				Probability of		1		Microbial	Suggested					
	Total Number	Number of	Shapiro-	lognormal		Assigned		Water Quality	Water Quality					
	ofobservations	chosen	Francia	distribution of	Test	geometric	Assigned 95th	Assessment	two-in-a-row					
18	(from 8 to 200)	samples	statistic W	the organisms	Statistic	mean	percentile	Category	Trigger Level				40	0.05678
19	0												41	0.06106
	Lowest	Percent of	Logarithmic	No of Std	Percent of	Percent of								
	enumerated	observations	Standard	Errors away	observations	observations								
	value	below lowest	Deviation of	from Ref Std	less than 33	above 157								
20	(cfu/100mL)	enum.value	observations	Deviation	cfu/100mL	cfu/100mL							42	0.06522
21													43	0.06926
	_	Concentration	Descending											
	Date of	of organisms	Rank (from	Sorted	Cumulative	Expected								0.07000
22	Observation	(cfu/100mL)	highest)	Observations	Probability	Values							44	0.07320
23	Fix I	Data	Tri	gger Adj		Export	Undo	Reassign					45	0.07705
24													46	0.08083
25	×	Cut											47	0.08454
26		Copy											48	0.08819
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28		Laste											50	0.09534
29		Paste Specia				If y		d the c	oncate	nate			51	0.09885
30		Insert Copied	d C <u>e</u> lls				,54 430		Should				52	0.10231
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38		Pick From Dro	op-down List					£ 1		- (Dect	,		60	0.12885
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44				-									66	0.14774
45													67	0.15082
46													68	0 15389

Step 6.2 – Only applicable if 'Paste Special' function selected (Step 6.1)

Click on 'Values' and then click on 'OK'.

Delivering a Healthy WA



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12	INSTRUCT	IONS	U U	U	C	E	6			J	n	L	34	0.02527
13	1. Pacta data te	be accessed in	the relieve cell	The microhiol	ogical concentr	ations should a	tart at P24 For	the time heing	Suggested				35	0.03177
14	these conce	ntrations should	he in the form	of a continuous	single-column	array not evce	eding 200 obsers	rations	Water Quality				36	0.03751
15	2 Data that are	shown as less t	han a value (e s	< <10) should be	entered with a	"<" sign Com	plete cell A21 if	desired	one-off				37	0.04276
16	This template	does not accon	modate data th	at are shown as	greater than a v	rahue (e.g. >10.0	00) - hover curs	or here: X	Trigger Level				38	0.04767
17	3. When data e	ntry in columns	A and B is com	plete, click the F	ix Data button	to adjust for zer	o values or ties	shown as pink)					39	0.05232
18	Total Number of observations (from 8 to 200)	Number of chosen samples	Shapiro- Francia statistic W'	Probability of lognormal distribution of the organisms	Test Statistic	Assigned geometric mean	Assigned 95th percentile	Microbial Water Quality Assessment Category	Suggested Water Quality two-in-a-row Trigger Level				40	0.05678
19	0												41	0.06106
20	Lowest enumerated value (cfu/100mL)	Percent of observations below lowest enum, value	Logarithmic Standard Deviation of observations	No of Std Errors away from Ref Std Deviation	Percent of observations less than 33 cfu/100mL	Percent of observations above 157 cfu/100mL							42	0.06522
21	1												43	0.06926
22 23	Date of Observation Fix	Concentration of organisms (cfu/100mL) Data	Descending Rank (from highest) Trig	Sorted Observations zger Adj	Cumulative Probability	Expected Values Export	Undo	Reassign					44	0.07320 o
24		1											46	0.08083
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42													64	0.14152
43													65	0.14464
44													66	0.14774
45													67	0.15082

The relevant data should now have been copied into the yellow cells. Click on the 'Fix' button to initiate the Enterotester calculator.





Click on the 'OK' button to accept the Enterotester calculator recommendation.

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By Any Y PI <	18 Dec 06	<10	17	31	0.802	45.2		+ the sample	e and reference	log standar	d deviations	are	62	0.13522	1.4914				-
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SFR-60 0 0 2 0 <td>22 Jan 07</td> <td>02</td> <td>19</td> <td>20</td> <td>0.743</td> <td>31.4</td> <td></td> <td>-</td> <td></td> <td>(a) (a)</td> <td>10 12 120</td> <td>3</td> <td>64</td> <td>0.14152</td> <td>1.3010</td> <td></td> <td>-</td> <td></td> <td>-</td>	22 Jan 07	02	19	20	0.743	31.4		-		(a) (a)	10 12 120	3	64	0.14152	1.3010		-		-
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Step 9

Click on the 'OK' button to accept the calculated mathematical recommendation.





Click on the 'OK' button to export data to the 'Results' worksheet



Step 11

Click on the 'OK' button to export data to 'Row 3' of the 'Results' worksheet. Alternatively designate another number row and then click 'OK'.



Delivering a Healthy WA



Enter 'Site Code', 'Site Name' and 'Seasons Covered' details into designated cells in the results row worksheet (see 2nd worksheet below).

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			Seasons	Observ.	helow lowest	less than 33	shore 157	ised Q5th	Assessment	Light	off Trigger	Trigger	
1	Site Code	Site Name	Covered	ations	enum. Value	cfu/100mL	cfu/100mL	Percentile	Category	Colour	Level	Level	
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	A	В	С	D	E	F	G	Н		J	K	L	М
				Number of	Percent of observations	Percent of observations	Percent of observations	Assigned or Standard-	Microbial Water Quality	Website Traffic	Suggested Water Quality one-	Suggested Water Quality two- in-a-row	
			Seasons	Observ-	below lowest	less than 33	above 157	ised 95th	Assessment	Light	off Trigger	Trigger	
1	Site Code	Site Name	Covered	ations	enum. Value	cfu/100mL	cfu/100mL	Percentile	Category	Colour	Level	Level	
3	EV3/599	River East Bank	2005-2010	73	33	75	3	150	Category B	Green	224	69	
4				•									
5													
7													
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Step 13

Press 'Ctrl-PageUp' or click on the '95% ile Calculator' worksheet tab at the bottom of 'Results' worksheet page (see pg 12).

Water Unit



					observation s below	Percent of observatio	Percent of observatio	or Standard-	Microbial Water	Website	Water Ouality	Wate Ouali
				Number	lowest	ns less than	ns above	ised 95th	Quality	Traffic	one-off	two-in
4	Site Celle	Site Norma	Seasons	of Observ-	enum.	33	157	Percentil	Assessmen	Light	Trigger	row
1	Site Code	Site Name	Covered	ations	Value	cfu/100mL	ctu/100mL	e 405	t Category	Colour	Level	Trigge
3	EV3/503	Keane Street Beach (SUM S Irvine S	2005-2010	70	47	84	1	125	Category B	Green	260	0
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If reusing the worksheet, select and delete all data in yellow marked cells.



Water Unit Delivering a Healthy WA



If necessary, you can now repeat this process for other sample locations/site codes using data from another worksheet.



More Information:

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Facsimile: 08 9388 4910

Printed on: 4 May 2011

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