



**LEAP<sup>®</sup> Scheme Report EFF033**

**Effluent, Waste Water, Contaminated Land & Hazardous Waste**

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NOT CONTROLLED WHEN PRINTED

**Table 1 (continued): Results and z-Scores for Analytes in Test Material 1**

laboratory number	analyte					
	BOD		COD		TOC	
	assigned value	104 mg O/L	assigned value	180 mg O/L	assigned value	72.4 mg C/L
	result mg O/L	z-score	result mg O/L	z-score	result mg C/L	z-score
051			170	-0.6		
053	94.68	-0.9	178.15	-0.1		
054	109	0.5	203	1.3		
057	47	<b>-5.5</b>	192	0.7		
058	64.7	<b>-3.8</b>	163	-0.9		
060	146	<b>4.0</b>	191	0.6	69.2	-0.4
065	110	0.6	187	0.4	81	1.2
073					72.83	0.1
075			146	-1.9		
<b>081</b>			<b>181</b>	<b>0.1</b>		
083	104	0.0	174	-0.3		
084	104.0	0.0	217.6	<b>2.1</b>		
085	123.80	1.9	180.91	0.1	59.74	-1.8
086	86.0	-1.7	160.8	-1.1		
088	30	<b>-7.1</b>	170	-0.6	74.75	0.3
097	145	<b>3.9</b>	178	-0.1		
099			204	1.3		
101	104.24	0.0	175	-0.3		
102			173.4	-0.4		
103	110	0.6	238	<b>3.2</b>	89	<b>2.3</b>
108	72	<b>-3.1</b>	170	-0.6		

z-scores outside  $|z| > 2$  are shown in **bold**, see Section 5

Table 4 (continued): Results and z-Scores for Analytes in Test Material 3A

laboratory number	analyte											
	Nitrate		Nitrite		Ammonia		Chloride		Orthophosphate		Sulphate	
	assigned value	6.81 mg N/L	assigned value	4.73 mg N/L	assigned value	8.83 mg N/L	assigned value	184 mg Cl/L	assigned value	12.0 mg P/L	assigned value	212 mg SO <sub>4</sub> /L
	result mg N/L	z-score	result mg N/L	z-score	result mg N/L	z-score	result mg Cl/L	z-score	result mg P/L	z-score	result mg SO <sub>4</sub> /L	z-score
046	5.98	-1.2	4.72	0.0	8.02	-0.9	183	-0.1	12.37	0.3	201	-0.5
047	5.6	-1.8	4.8	0.2	9.0	0.2	127	<b>-3.1</b>	11.9	-0.1	194	-0.8
049	11.0	<b>6.1</b>	4.51	-0.5	10.2	1.5	182	-0.1			200	-0.5
053	10.2	<b>5.0</b>	5.30	1.2	8.34	-0.6	190.75	0.4	12	0.0	250	1.8
054	6.96	0.2	4.78	0.1	8.26	-0.6	184	0.0	11.7	-0.3	218	0.3
057	5.66	-1.7	4.76	0.1	8.5	-0.4	185	0.0	11.3	-0.6	230	0.9
058	8.0	1.7	4.0	-1.5	10.0	1.3	183.6	0.0	8.0	<b>-3.3</b>	>200	
059	8.90	<b>3.1</b>	4.60	-0.3	9.25	0.5	185.3	0.1	12.45	0.4	202.86	-0.4
065	6.8	0.0	4.5	-0.5	9.4	0.6	188	0.2	11.7	-0.3	189	-1.1
071	8.83	<b>3.0</b>	4.38	-0.7	10.9	<b>2.3</b>	191.25	0.4				
075	6.1	-1.0	5.0	0.6	7.3	-1.7	187.33	0.2			240	1.3
076	6.45	-0.5	4.74	0.0	7.68	-1.3	191.9	0.4	12.1	0.1	201.9	-0.5
078	7.7	1.3	4.48	0.5	4.78	<b>-4.6</b>	173.7	-0.6	3.93	<b>-6.7</b>	202.14	-0.4
<b>081</b>	<b>5.58</b>	<b>-1.8</b>	<b>4.38</b>	<b>-0.7</b>	<b>8.8</b>	<b>0.0</b>	<b>160.28</b>	<b>-1.3</b>			<b>193.10</b>	<b>-0.9</b>
088	7.19	0.6	5.06	0.7	11.20	<b>2.7</b>	216	1.7	10.19	-1.5	259	<b>2.2</b>
092	6.77	-0.1	5.03	0.6	8.64	-0.2	202.32	1.0	11.9	-0.1	225.11	0.6

z-scores outside |z| >2 are shown in **bold**, see Section 5

**Table 5 (continued): Results and z-Scores for Analytes in Test Material 3B**

laboratory number	analyte	
	Total Phosphorus assigned value: 3.07 mg P/L	
	result, mg P/L	z-score
059	3.10	0.1
065	3.06	0.0
071		
075	3.08	0.0
076	3.08	0.0
078	3.42	1.2
<b>081</b>	<b>2.3</b>	<b>-2.5</b>
088	2.13	<b>-3.1</b>
092	3.05	0.0
093	3.36	1.0
094	2.8	-0.9
095	3.00	-0.2
098	3.06	0.0
099	2.95	-0.4
101	-	
102	3.0	-0.2
106		
108	2.8	-0.9

z-scores outside  $|z| > 2$  are shown in **bold**, see Section 5

**Table 8 (continued): Results and z-Scores for Analytes in Test Material 4A**

laboratory number	analyte	
	pH assigned value: 7.02 pH units	
	result, pH units	z-score
046	7.03	0.1
047	7.02	0.0
050	7.0	-0.2
057	6.96	-0.6
058	6.89	-1.3
063	6.973	-0.4
069	7.02	0.0
070	7.00	-0.2
071	7.01	-0.1
075	6.95	-0.7
079	7.12	1.0
<b>081</b>	<b>7.015</b>	<b>0.0</b>
084	7.03	0.1
090	7.02	0.0
091	7.04	0.2
095	7.02	0.0
097	7.1	0.8
098	6.97	-0.5
103	7.04	0.2
104	7.03	0.1
105	7.00	-0.2
107	7.04	0.2
108	7.0	-0.2

**Table 9 (continued) Results and z-Scores for Analytes in Test Material 4B**

laboratory number	analyte	
	Conductivity at 25°C assigned value: 1094 $\mu\text{S}/\text{cm}$	
	result, $\mu\text{S}/\text{cm}$	z-score
046	1106	0.1
047	1093	0.0
050	1100	0.1
057	1003	-0.8
058	1107	0.1
063		
069	1080	-0.1
070	1092.47	0.0
071	1010.68	-0.8
075	1161	0.6
079	1088	-0.1
<b>081</b>	<b>1126</b>	<b>0.3</b>
084	923	-1.6
090	1220.00	1.2
091	1107	0.1
095	1100	0.1
097	1049	-0.4
098	1085	-0.1
103	1135	0.4
104	1064.3	-0.3
105	960	-1.2
107	1080	-0.1
108	1100	0.1

Table 14 (continued): Results and z-Scores for Analytes in Test Material 8

laboratory number	analyte									
	Cadmium		Chromium		Nickel		Lead		Copper	
	assigned value	3.04 mg Cd/L	assigned value	1.96 mg Cr/L	assigned value	0.976 mg Ni/L	assigned value	3.03 mg Pb/L	assigned value	3.88 mg Cu/L
	result mg Cd/L	z-score	result mg Cr/L	z-score	result mg Ni/L	z-score	result mg Pb/L	z-score	result mg Cu/L	z-score
067	3.03	0.0	2.04	0.4	1	0.2	3.04	0.0	3.74	-0.4
080	2.95	-0.3	2.18	1.1	1	0.2	2.95	-0.2	4.01	0.3
<b>081</b>	<b>2.88</b>	<b>-0.5</b>	<b>2.31</b>	<b>1.8</b>	<b>0.91</b>	<b>-0.7</b>	<b>2.96</b>	<b>-0.2</b>	<b>3.76</b>	<b>-0.3</b>
086	3.03	0.0	1.97	0.0	1.00	0.2	3.14	0.4	4.05	0.4
089	2.96	-0.3	1.4	<b>-2.9</b>	0.82	-1.6	3.13	0.3	4.18	0.8
095	2.87	-0.6	1.93	-0.2	0.98	0.0	3.02	0.0	3.95	0.2
096	3.099	0.2	2.237	1.4	1.011	0.4	3.022	0.0	3.876	0.0
097	2.990	-0.2	1.210	<b>-3.8</b>	0.895	-0.8	0.713	<b>-7.6</b>	4.180	0.8
098	2.72	-1.1	1.87	-0.5	0.902	-0.8	2.84	-0.6	3.94	0.2
099	3.29	0.8	1.84	-0.6	1.06	0.9	3.09	0.2	4.18	0.8
100	3.08	0.1	1.94	-0.1	0.92	-0.6	3.01	-0.1	3.32	-1.4
105	3.07	0.1	2.09	0.6	0.93	-0.5	3.17	0.5	3.88	0.0
108	2.8	-0.8	1.9	-0.3	0.99	0.1	3.3	0.9	3.9	0.1

z-scores outside  $|z| > 2$  are shown in **bold**, see Section 5

Table 14 (continued): Results and z-Scores for Analytes in Test Material 8

laboratory number	analyte							
	Zinc		Arsenic		Selenium		Mercury	
	assigned value	1.02 mg Zn/L	assigned value	1.97 mg As/L	assigned value	2.98 mg Se/L	assigned value	0.840 mg Hg/L
	result mg Zn/L	z-score	result mg As/L	z-score	result mg Se/L	z-score	result mg Hg/L	z-score
067	1	-0.2	2.06	0.4	3.1	0.4	0.77	-0.8
080	0.98	-0.4	1.94	-0.2	2.87	-0.4	1.31	<b>5.6</b>
<b>081</b>	<b>1.26</b>	<b>2.4</b>						
086	1.00	-0.2	1.95	-0.1	2.97	0.0	1.006	2.0
089	0.96	-0.5						
095	0.98	-0.4	1.95	-0.1	2.94	-0.1	0.861	0.3
096	1.017	0.0	1.942	-0.2	2.616	-1.2	0.683	-1.9
097	1.049	0.3	1.856	-0.6	3.034	0.2	0.908	0.8
098	1.03	0.1	1.84	-0.7	2.68	-1.0	0.37	<b>-5.6</b>
099	1.17	1.5	2.10	0.6	3.26	0.9	0.83	-0.1
100	0.91	-1.0	2.03	0.3	3.02	0.1	1.10	<b>3.1</b>
105	1.05	0.3	2.45	<b>2.4</b>	3.71	<b>2.4</b>	0.91	0.8
108	1.1	0.8	1.9	-0.4	2.8	-0.5	1.9	<b>12.6</b>

z-scores outside  $|z| > 2$  are shown in **bold**, see Section 5



Table 14 (continued): Results and z-Scores for Analytes in Test Material 8

laboratory number	analyte							
	Zinc		Arsenic		Selenium		Mercury	
	assigned value	1.02 mg Zn/L	assigned value	1.97 mg As/L	assigned value	2.98 mg Se/L	assigned value	0.840 mg Hg/L
	result mg Zn/L	z-score	result mg As/L	z-score	result mg Se/L	z-score	result mg Hg/L	z-score
067	1	-0.2	2.06	0.4	3.1	0.4	0.77	-0.8
080	0.98	-0.4	1.94	-0.2	2.87	-0.4	1.31	<b>5.6</b>
<b>081</b>	<b>1.26</b>	<b>2.4</b>						
086	1.00	-0.2	1.95	-0.1	2.97	0.0	1.006	2.0
089	0.96	-0.5						
095	0.98	-0.4	1.95	-0.1	2.94	-0.1	0.861	0.3
096	1.017	0.0	1.942	-0.2	2.616	-1.2	0.683	-1.9
097	1.049	0.3	1.856	-0.6	3.034	0.2	0.908	0.8
098	1.03	0.1	1.84	-0.7	2.68	-1.0	0.37	<b>-5.6</b>
099	1.17	1.5	2.10	0.6	3.26	0.9	0.83	-0.1
100	0.91	-1.0	2.03	0.3	3.02	0.1	1.10	<b>3.1</b>
105	1.05	0.3	2.45	<b>2.4</b>	3.71	<b>2.4</b>	0.91	0.8
108	1.1	0.8	1.9	-0.4	2.8	-0.5	1.9	<b>12.6</b>

z-scores outside  $|z| > 2$  are shown in **bold**, see Section 5