

## **Appendix 13.1 Summary of Results**

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 01 - in the vicinity of No.62 Upper Hightown Road  
**Daytime** Weekdays Tuesday 14/08/2012 Friday 17/08/2012  
 07:00 - 23:00 Weekends Sunday 19/08/2012

**Microphone Height:** 1.2 m

**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
**Calibrator:** RION Sound Calibrator NC-74

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 01 - in the vicinity of No.62 Upper Hightown Road  
**NIGHT TIME** Weekdays Wednesday 15/08/2012  
 23:00 - 07:00 Weekends Sunday 19/08/2012

**Microphone Height:** 1.2 m

**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and  
**Calibrator:** RION Sound Calibrator NC-74

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Tuesday	14/08/2012	07:01	43.66	38.75	a
Tuesday	14/08/2012	10:05	42.92	36.76	a
Tuesday	14/08/2012	11:05	51.28	39.02	-
Tuesday	14/08/2012	12:05	51.98	37.23	a
Friday	17/08/2012	14:01	46.97	34.88	a
Sunday	19/08/2012	11:11	49.49	34.92	
Sunday	19/08/2012	13:43	50.17	40.10	a
Sunday	19/08/2012	16:05	48.51	38.25	a

Lowest 3		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Tuesday	14/08/2012	10:05	42.92	36.76	a
Friday	17/08/2012	14:01	46.97	34.88	a
Sunday	19/08/2012	11:11	49.49	34.92	
AVERAGE			47.22	35.52	

**Notes:** a = 1 x 5 min survey period omitted from Summary Calculations (of 60 min survey).  
 L90 Log Average of 5 minute sample periods in 1 hour.  
 L90 50 Percentile of 5 minute sample periods in 1 hour.

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Wednesday	15/08/2012	00:23	35.68	29.76	
Wednesday	15/08/2012	00:28	35.96	29.83	
Wednesday	15/08/2012	00:38	37.84	30.49	
Sunday	19/08/2012	02:43	31.69	26.99	
Sunday	19/08/2012	03:53	29.75	26.40	
Sunday	19/08/2012	04:08	35.04	26.75	

Lowest 3		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Sunday	19/08/2012	02:43	31.69	26.99	
Sunday	19/08/2012	03:53	29.75	26.40	
Sunday	19/08/2012	04:08	35.04	26.75	
AVERAGE			32.72	26.71	

Survey Day		Survey Periods (5 min)			Leq	L90	Notes
Day	Date	Time	Leq	L90			
Tuesday	14/08/2012	07:01			55.9	37.0	omitted from Summary Calculations
Tuesday	14/08/2012	07:06	39.6	35.3			
Tuesday	14/08/2012	07:11	43.1	38.4			
Tuesday	14/08/2012	07:16	42.7	39.4			
Tuesday	14/08/2012	07:21	41.3	37.2			
Tuesday	14/08/2012	07:26	41.1	38.3			
Tuesday	14/08/2012	07:31	39.5	35.9			
Tuesday	14/08/2012	07:36	41.6	38.8			
Tuesday	14/08/2012	07:41	50.6	39.8			
Tuesday	14/08/2012	07:46	43.0	40.0			
Tuesday	14/08/2012	07:51	42.2	39.3			
Tuesday	14/08/2012	07:56	44.7	42.6			
Tuesday	14/08/2012	10:05			58.6	36.9	omitted from Summary Calculations
Tuesday	14/08/2012	10:10	41.7	37.4			
Tuesday	14/08/2012	10:15	44.1	36.9			
Tuesday	14/08/2012	10:20	41.2	36.8			
Tuesday	14/08/2012	10:25	40.5	34.9			
Tuesday	14/08/2012	10:30	40.4	35.5			
Tuesday	14/08/2012	10:35	39.9	34.4			
Tuesday	14/08/2012	10:40	41.5	36.7			
Tuesday	14/08/2012	10:45	46.4	39.1			
Tuesday	14/08/2012	10:50	41.2	36.4			
Tuesday	14/08/2012	10:55	44.2	38.1			
Tuesday	14/08/2012	11:00	45.2	37.2			
Tuesday	14/08/2012	11:05	43.5	38.4			
Tuesday	14/08/2012	11:10	55.0	39.4			
Tuesday	14/08/2012	11:15	51.7	39.9			
Tuesday	14/08/2012	11:20	46.3	38.9			
Tuesday	14/08/2012	11:25	41.2	36.3			
Tuesday	14/08/2012	11:30	42.4	37.3			
Tuesday	14/08/2012	11:35	53.0	42.0			
Tuesday	14/08/2012	11:40	55.3	40.8			
Tuesday	14/08/2012	11:45	49.8	39.0			
Tuesday	14/08/2012	11:50	49.3	40.9			
Tuesday	14/08/2012	11:55	54.9	39.1			
Tuesday	14/08/2012	12:00	45.2	36.8			
Tuesday	14/08/2012	12:05	50.0	38.5			
Tuesday	14/08/2012	12:10	49.3	37.1			
Tuesday	14/08/2012	12:15	44.5	36.2			
Tuesday	14/08/2012	12:20	61.7	37.4			
Tuesday	14/08/2012	12:25	44.3	38.0			
Tuesday	14/08/2012	12:30	49.3	37.8			
Tuesday	14/08/2012	12:35	45.6	38.2			
Tuesday	14/08/2012	12:40	39.7	35.2			
Tuesday	14/08/2012	12:45	40.4	36.2			
Tuesday	14/08/2012	12:50	41.0	35.5			
Tuesday	14/08/2012	12:55	44.5	37.5			
Tuesday	14/08/2012	13:00	37.5	33.2			
Friday	17/08/2012	14:01			60.8	40.4	omitted from Summary Calculations
Friday	17/08/2012	14:06	44.8	36.3			
Friday	17/08/2012	14:11	40.7	34.1			
Friday	17/08/2012	14:16	45.0	34.5			
Friday	17/08/2012	14:21	40.1	34.4			
Friday	17/08/2012	14:26	47.0	35.9			
Friday	17/08/2012	14:31	45.7	35.9			
Friday	17/08/2012	14:36	49.4	34.1			
Friday	17/08/2012	14:41	52.6	37.0			
Friday	17/08/2012	14:46	42.8	34.9			
Friday	17/08/2012	14:51	49.0	36.6			
Friday	17/08/2012	14:56	38.6	33.8			
Sunday	19/08/2012	11:11			64.4	34.6	omitted from Summary Calculations
Sunday	19/08/2012	11:16	37.76	33.99			
Sunday	19/08/2012	11:21	37.41	33.02			
Sunday	19/08/2012	11:26	57.96	44.14			
Sunday	19/08/2012	11:31	41.85	35.17			
Sunday	19/08/2012	11:36	42.37	34.33			
Sunday	19/08/2012	11:41	40.52	35.36			
Sunday	19/08/2012	11:46	41.99	34.70			
Sunday	19/08/2012	11:51	42.87	34.92			
Sunday	19/08/2012	11:56	41.78	34.54			
Sunday	19/08/2012	12:01	44.54	38.84			
Sunday	19/08/2012	12:06	53.39	35.96			
Sunday	19/08/2012	13:43			69.6	39.1	omitted from Summary Calculations
Sunday	19/08/2012	13:48	51.5	41.3			
Sunday	19/08/2012	13:53	50.9	41.4			
Sunday	19/08/2012	13:58	55.2	42.8			
Sunday	19/08/2012	14:03	50.2	40.6			
Sunday	19/08/2012	14:08	48.8	39.6			
Sunday	19/08/2012	14:13	49.8	40.1			
Sunday	19/08/2012	14:18	50.3	40.7			
Sunday	19/08/2012	14:23	50.5	38.8			
Sunday	19/08/2012	14:28	43.6	38.0			
Sunday	19/08/2012	14:33	47.6	36.3			
Sunday	19/08/2012	14:38	47.6	38.1			
Sunday	19/08/2012	16:05			66.9	37.1	omitted from Summary Calculations
Sunday	19/08/2012	16:10	46.4	37.9			
Sunday	19/08/2012	16:15	45.5	38.1			
Sunday	19/08/2012	16:20	49.0	38.9			
Sunday	19/08/2012	16:25	47.9	40.0			
Sunday	19/08/2012	16:30	50.0	39.2			
Sunday	19/08/2012	16:35	49.2	38.3			
Sunday	19/08/2012	16:40	44.4	36.4			
Sunday	19/08/2012	16:45	48.3	39.9			
Sunday	19/08/2012	16:50	54.3	40.5			
Sunday	19/08/2012	16:55	44.0	37.4			
Sunday	19/08/2012	17:00	47.8	36.6			

Survey NIGHT		Survey Periods (5 min)			Leq	L90	Notes
Day	Date	Time	Leq	L90			
Tuesday	14/08/2012	23:38	38.4	34.8	68.1	35.3	
Tuesday	14/08/2012	23:43	36.9	31.1			
Tuesday	14/08/2012	23:48	37.3	32.4			NOT Used in Summary Calc.
Tuesday	14/08/2012	23:53	34.3	30.7			
Tuesday	14/08/2012	23:58	35.5	31.2			
Wednesday	15/08/2012	00:03	36.3	32.9			
Wednesday	15/08/2012	00:08	35.6	31.9			
Wednesday	15/08/2012	00:13	39.1	35.0			
Wednesday	15/08/2012	00:18	39.8	34.9			
Wednesday	15/08/2012	00:23	35.7	29.8			
Wednesday	15/08/2012	00:28	35.4	29.8			
Wednesday	15/08/2012	00:33	37.0	32.8			
Wednesday	15/08/2012	00:38	37.8	30.5			
Wednesday	15/08/2012	00:43	36.6	31.1			
Wednesday	15/08/2012	00:48	37.2	32.4			
Wednesday	15/08/2012	00:53	36.3	32.5			
Wednesday	15/08/2012	00:58	38.2	33.7			
Wednesday	15/08/2012	01:03	38.8	35.1			
Wednesday	15/08/2012	01:08	38.3	33.9			
Wednesday	15/08/2012	01:13	34.0	31.3			
Wednesday	15/08/2012	01:18	37.7	32.6			
Wednesday	15/08/2012	01:23	39.1	35.8			
Wednesday	15/08/2012	01:28	38.5	34.8			
Wednesday	15/08/2012	01:33	38.5	33.9			
Wednesday	15/08/2012	01:38	42.0	35.2			
Wednesday	15/08/2012	01:43	39.5	35.2			

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 02 - No.120 Flush Road  
**Survey period:** Daytime Wednesday Thursday 16/08/2012  
 07:00 - 23:00 Weekends Saturday 18/08/2012

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 02 - No.120 Flush Road  
**Survey period:** NIGHT TIME Wednesday Friday 17/08/2012 Saturday 18/08/2012  
 23:00 - 07:00 Weekends Sunday 19/08/2012

**Microphone Height:** 1.2 m

**Microphone Height:** 1.2 m

**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
**Calibrator:** RION Sound Calibrator NC-74

**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
**Calibrator:** RION Sound Calibrator NC-74

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Thursday	16/08/2012	06:59	44.80	42.44	a
Thursday	16/08/2012	10:01	45.22	40.11	a
Thursday	16/08/2012	12:09	41.82	37.14	a
Thursday	16/08/2012	15:24	46.43	41.32	a
Saturday	18/08/2012	06:58	40.55	33.69	
Saturday	18/08/2012	10:00	43.20	37.72	a
Saturday	18/08/2012	12:15	43.01	36.95	a
Saturday	18/08/2012	14:12	44.62	32.47	a

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Friday	17/08/2012	00:13	46.66	42.17	
Friday	17/08/2012	00:28	46.10	41.96	
Friday	17/08/2012	00:33	44.49	41.11	
Saturday	18/08/2012	06:53	35.65	32.29	
Sunday	19/08/2012	00:11	32.90	30.10	
Sunday	19/08/2012	01:26	31.80	29.30	
Sunday	19/08/2012	01:36	32.01	29.58	

**Lowest 3**

Survey Day		Survey Periods (1 hr)				Rank L90
Day	Date	Time	Leq	L90	Notes	
Saturday	18/08/2012	06:58	40.55	33.69	2	
Saturday	18/08/2012	12:15	43.01	36.95	a	
Saturday	18/08/2012	14:12	44.62	32.47	1	
<b>AVERAGE</b>			<b>43.04</b>	<b>34.37</b>		

**Lowest 3**

Survey NIGHT		Survey Periods (5 min)				Rank L90
Day	Date	Time	Leq	L90	Notes	
Sunday	19/08/2012	00:11	32.90	30.10	15	
Sunday	19/08/2012	01:26	31.80	29.30	3	
Sunday	19/08/2012	01:36	32.01	29.58	9	
<b>AVERAGE</b>			<b>32.26</b>	<b>29.66</b>		

**Notes:**  
 a = 1 x 5 min survey period omitted from Summary Calculations (of 60 min survey).  
 b = 2 x 5 min survey periods omitted from Summary Calculations (of 60 min survey).

Laq Log Average of 5 minute sample periods in 1 hour. L90 50 Percentile of 5 minute sample periods in 1 hour.

Survey Day		Survey Periods (5 min)				Leq	L90	RANK L90
Day	Date	Time	Leq	L90	Notes			
Thursday	16/08/2012	06:59	44.80	42.44	76.4	41.3	omitted from Summary Calculations	
Thursday	16/08/2012	07:04	45.63	42.68				
Thursday	16/08/2012	07:09	46.50	43.18				
Thursday	16/08/2012	07:14	44.80	42.44				
Thursday	16/08/2012	07:19	45.26	43.06				
Thursday	16/08/2012	07:24	49.65	45.74				
Thursday	16/08/2012	07:29	42.61	39.93				
Thursday	16/08/2012	07:34	40.33	37.74				
Thursday	16/08/2012	07:39	42.80	38.27				
Thursday	16/08/2012	07:44	43.86	40.70				
Thursday	16/08/2012	07:49	42.71	40.09				
Thursday	16/08/2012	07:54	44.71	42.55				
Thursday	16/08/2012	10:01			63.4	39.8	omitted from Summary Calculations	
Thursday	16/08/2012	10:06	45.25	40.11				
Thursday	16/08/2012	10:11	45.89	39.36				
Thursday	16/08/2012	10:16	42.59	39.76				
Thursday	16/08/2012	10:21	48.73	42.14				
Thursday	16/08/2012	10:26	44.73	40.91				
Thursday	16/08/2012	10:31	47.73	41.26				
Thursday	16/08/2012	10:36	41.90	39.91				
Thursday	16/08/2012	10:41	42.97	40.00				
Thursday	16/08/2012	10:46	45.78	41.85				
Thursday	16/08/2012	10:51	47.69	43.27				
Thursday	16/08/2012	10:56	41.39	38.38				
Thursday	16/08/2012	12:09			58.6	37.7	omitted from Summary Calculations	
Thursday	16/08/2012	12:14	41.32	36.36				
Thursday	16/08/2012	12:19	44.98	40.05				
Thursday	16/08/2012	12:24	41.39	39.31				
Thursday	16/08/2012	12:29	44.59	41.94				
Thursday	16/08/2012	12:34	42.98	40.66				
Thursday	16/08/2012	12:39	42.58	37.14				
Thursday	16/08/2012	12:44	42.27	39.12				
Thursday	16/08/2012	12:49	38.67	33.72				
Thursday	16/08/2012	12:54	34.96	32.22				
Thursday	16/08/2012	12:59	39.76	34.82				
Thursday	16/08/2012	13:04	42.54	35.74				
Thursday	16/08/2012	15:24			63.6	43.2	omitted from Summary Calculations	
Thursday	16/08/2012	15:29	47.75	44.51				
Thursday	16/08/2012	15:34	47.51	43.90				
Thursday	16/08/2012	15:39	46.04	43.58				
Thursday	16/08/2012	15:44	43.17	39.93				
Thursday	16/08/2012	15:49	47.14	39.22				
Thursday	16/08/2012	15:54	45.23	39.05				
Thursday	16/08/2012	15:59	45.08	37.43				
Thursday	16/08/2012	16:04	44.54	41.32				
Thursday	16/08/2012	16:09	51.23	40.96				
Thursday	16/08/2012	16:14	44.91	42.39				
Thursday	16/08/2012	16:19	46.06	43.09				
Saturday	18/08/2012	06:48			60.0	33.1	omitted from Night Time Summary Calculations	
Saturday	18/08/2012	06:53			35.7	32.3	included in Night Time Summary Calculations	
Saturday	18/08/2012	06:58	37.41	34.77				
Saturday	18/08/2012	07:03	37.33	33.02				
Saturday	18/08/2012	07:08	37.95	33.28				
Saturday	18/08/2012	07:13	38.20	32.43				
Saturday	18/08/2012	07:18	42.24	34.08				
Saturday	18/08/2012	07:23	36.96	33.48				
Saturday	18/08/2012	07:28	36.19	32.66				
Saturday	18/08/2012	07:33	44.75	33.91				
Saturday	18/08/2012	07:38	42.48	37.83				
Saturday	18/08/2012	07:43	42.13	35.73				
Saturday	18/08/2012	10:00			65.5	35.7	omitted from Summary Calculations	
Saturday	18/08/2012	10:05	40.63	37.62				
Saturday	18/08/2012	10:10	40.39	36.19				
Saturday	18/08/2012	10:15	42.66	38.44				
Saturday	18/08/2012	10:20	44.87	38.55				
Saturday	18/08/2012	10:25	43.09	35.13				
Saturday	18/08/2012	10:30	43.94	37.72				
Saturday	18/08/2012	10:35	41.89	35.93				
Saturday	18/08/2012	10:40	42.23	36.90				
Saturday	18/08/2012	10:45	43.46	37.93				
Saturday	18/08/2012	10:50	44.31	41.22				
Saturday	18/08/2012	10:55	45.03	40.94				
Saturday	18/08/2012	12:15			60.5	33.4	omitted from Summary Calculations	
Saturday	18/08/2012	12:20	44.79	39.18				
Saturday	18/08/2012	12:25	40.11	36.95				
Saturday	18/08/2012	12:30	46.08	37.96				
Saturday	18/08/2012	12:35	43.04	36.96				
Saturday	18/08/2012	12:40	41.67	34.46				
Saturday	18/08/2012	12:45	41.66	35.54				
Saturday	18/08/2012	12:50	42.42	34.67				
Saturday	18/08/2012	12:55	46.49	38.55				
Saturday	18/08/2012	13:00	39.26	36.88				
Saturday	18/08/2012	13:05	34.96	29.10				
Saturday	18/08/2012	13:10	42.06	37.63				
Saturday	18/08/2012	14:12			61.4	30.2	omitted from Summary Calculations	
Saturday	18/08/2012	14:17	37.59	32.47				
Saturday	18/08/2012	14:22	36.33	32.97				
Saturday	18/08/2012	14:27	38.32	30.78				
Saturday	18/08/2012	14:32	41.55	30.31				
Saturday	18/08/2012	14:37	37.13	31.55				
Saturday	18/08/2012	14:42	33.48	27.69				
Saturday	18/08/2012	14:47	38.63	31.63				
Saturday	18/08/2012	14:52	42.59	32.80				
Saturday	18/08/2012	14:57	41.37	33.51				
Saturday	18/08/2012	15:02	46.52	32.48				
Saturday	18/08/2012	15:07	51.92	34.02				

Survey NIGHT		Survey Periods (5 min)				Leq	L90	RANK L90
Day	Date	Time	Leq	L90	Notes			
Friday	17/08/2012	00:03			73.0	43.0	omitted from Summary Calculations	
Friday	17/08/2012	00:08	47.81	44.36				
Friday	17/08/2012	00:13	46.66	42.17				
Friday	17/08/2012	00:18	49.89	45.86				
Friday	17/08/2012	00:23	48.66	45.92				
Friday	17/08/2012	00:28	46.10	41.96				
Friday	17/08/2012	00:33	44.49	41.11				
Friday	17/08/2012	00:38	48.92	44.73				
Friday	17/08/2012	00:43	48.67	44.64				
Friday	17/08/2012	00:48	46.96	43.33				
Friday	17/08/2012	00:53	48.04	45.67				
Friday	17/08/2012	00:58	46.28	43.96				
Saturday	18/08/2012	06:48			60.0	33.1	omitted from Summary Calculations	
Saturday	18/08/2012	06:53	35.65	32.29				
Sunday	19/08/2012	00:01			69.6	33.7	omitted from Summary Calculations	
Sunday	19/08/2012	00:06	37.21	34.45				
Sunday	19/08/2012	00:11	32.90	30.10				
Sunday	19/08/2012	00:16	41.05	31.58				
Sunday	19/08/2012	00:21	33.17	30.71				
Sunday	19/08/2012	00:26	34.93	32.08				
Sunday	19/08/2012	00:31	41.64	35.89				
Sunday	19/08/2012	00:36	42.68	37.69				
Sunday	19/08/2012	00:41	42.14	38.16				
Sunday	19/08/2012	00:46	39.55	37.00				
Sunday	19/08/2012	00:51	38.85	36.98				
Sunday	19/08/2012	00:56	39.12	36.26				
Sunday	19/08/2012	01:01	36.73	34.06				
Sunday	19/08/2012	01:06	37.72	34.59				
Sunday	19/08/2012	01:11	35.36	32.88				
Sunday	19/08/2012	01:16	33.48	31.47				
Sunday	19/08/2012	01:21	35.42	30.95				
Sunday	19/08/2012	01:26	31.80	29.30				
Sunday	19/08/2012	01:31	33.41	30.73				
Sunday	19/08/2012	01:36	32.01	29.58				
Sunday	19/08/2012	01:41	32.80	30.21				
Sunday	19/08/2012	01:46	33.06	30.75				
Sunday	19/08/2012	01:51	35.85	32.79				
Sunday	19/08/2012	01:56	38.80	36.73				

Project: ARC21 Residual Waste Treatment Project: Hightown Quarry  
 Survey Location: Location 03 - No.65 Flush Road  
 Survey period: Daytime Weekdays Thursday 16/08/2012  
 07:00 - 23:00 Weekends Saturday 18/08/2012

Project: ARC21 Residual Waste Treatment Project: Hightown Quarry  
 Survey Location: Location 03 - No.65 Flush Road  
 Survey period: NIGHT TIME Friday 17/08/2012  
 23:00 - 07:00 Weekends Sunday 19/08/2012

Microphone Height: 1.2 m

Microphone Height: 1.2 m

Sound Level Meter: 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
 Calibrator: RION Sound Calibrator NC-74

Sound Level Meter: 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
 Calibrator: RION Sound Calibrator NC-74

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Thursday	16/08/2012	07:03	69.41	54.53	-
Thursday	16/08/2012	09:37	63.71	49.68	-
Thursday	16/08/2012	11:41	58.99	45.16	-
Thursday	16/08/2012	15:27	66.50	51.94	-
Saturday	18/08/2012	06:56	55.57	40.48	a
Saturday	18/08/2012	10:07	59.46	45.01	a
Saturday	18/08/2012	12:22	51.60	39.67	a
Saturday	18/08/2012	14:18	53.14	38.05	a

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Friday	17/08/2012	01:26	63.91	45.53	
Friday	17/08/2012	01:31	64.92	45.85	
Friday	17/08/2012	01:51	65.93	46.78	
Sunday	19/08/2012	01:33	51.03	35.97	
Sunday	19/08/2012	01:38	50.15	34.56	
Sunday	19/08/2012	01:48	46.35	34.64	

Lowest 3

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Saturday	18/08/2012	06:56	55.57	40.48	a
Saturday	18/08/2012	12:22	51.60	39.67	a
Saturday	18/08/2012	14:18	53.14	38.05	a
<b>AVERAGE</b>			<b>53.75</b>	<b>39.40</b>	

Lowest 3

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Sunday	19/08/2012	01:33	51.03	35.97	
Sunday	19/08/2012	01:38	50.15	34.56	
Sunday	19/08/2012	01:48	46.35	34.64	
<b>AVERAGE</b>			<b>49.60</b>	<b>35.06</b>	

Notes: a = 1 x 5 min survey period omitted from Summary Calculations (of 60 min survey).  
 LAeq Log Average of 5 minute sample periods in 1 hour.  
 LA90 50 Percentile of 5 minute sample periods in 1 hour.

Survey Day		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Thursday	16/08/2012	05:58	77.5	52.8	
Thursday	16/08/2012	07:03	68.9	52.9	
Thursday	16/08/2012	07:08	70.8	54.9	
Thursday	16/08/2012	07:13	70.5	55.3	
Thursday	16/08/2012	07:18	67.9	51.7	
Thursday	16/08/2012	07:23	66.1	50.9	
Thursday	16/08/2012	07:28	67.8	53.6	
Thursday	16/08/2012	07:33	68.5	55.6	
Thursday	16/08/2012	07:38	69.8	55.1	
Thursday	16/08/2012	07:43	71.1	55.5	
Thursday	16/08/2012	07:48	69.3	53.9	
Thursday	16/08/2012	07:53	69.8	54.1	
Thursday	16/08/2012	07:58	70.5	56.4	
Thursday	16/08/2012	09:37	64.8	49.7	
Thursday	16/08/2012	09:42	63.3	49.7	
Thursday	16/08/2012	09:47	63.5	50.1	
Thursday	16/08/2012	09:52	64.5	50.7	
Thursday	16/08/2012	09:57	64.5	49.7	
Thursday	16/08/2012	10:02	63.4	48.7	
Thursday	16/08/2012	10:07	63.8	50.6	
Thursday	16/08/2012	10:12	59.4	46.3	
Thursday	16/08/2012	10:17	63.1	49.0	
Thursday	16/08/2012	10:22	60.6	47.8	
Thursday	16/08/2012	10:27	62.8	49.3	
Thursday	16/08/2012	10:32	66.5	52.9	
Thursday	16/08/2012	11:41	61.8	46.0	
Thursday	16/08/2012	11:46	58.6	44.2	
Thursday	16/08/2012	11:51	63.1	48.4	
Thursday	16/08/2012	11:56	61.8	47.8	
Thursday	16/08/2012	12:01	60.1	47.5	
Thursday	16/08/2012	12:06	58.4	45.5	
Thursday	16/08/2012	12:11	55.2	43.6	
Thursday	16/08/2012	12:16	55.9	43.3	
Thursday	16/08/2012	12:21	51.8	42.4	
Thursday	16/08/2012	12:26	54.6	43.9	
Thursday	16/08/2012	12:31	55.3	44.9	
Thursday	16/08/2012	12:36	56.7	47.6	
Thursday	16/08/2012	15:27	69.8	53.5	
Thursday	16/08/2012	15:32	66.0	49.8	
Thursday	16/08/2012	15:37	65.2	52.4	
Thursday	16/08/2012	15:42	62.2	48.9	
Thursday	16/08/2012	15:47	64.2	50.4	
Thursday	16/08/2012	15:52	60.6	47.9	
Thursday	16/08/2012	15:57	65.1	50.3	
Thursday	16/08/2012	16:02	67.4	55.4	
Thursday	16/08/2012	16:07	67.2	51.5	
Thursday	16/08/2012	16:12	67.1	52.6	
Thursday	16/08/2012	16:17	67.8	53.8	
Thursday	16/08/2012	16:22	67.8	53.3	
Saturday	18/08/2012	06:56	55.57	40.48	65.8 44.4 omitted from Summary Calculations
Saturday	18/08/2012	07:01	54.2	41.4	
Saturday	18/08/2012	07:06	56.6	41.7	
Saturday	18/08/2012	07:11	55.5	40.2	
Saturday	18/08/2012	07:16	53.1	39.1	
Saturday	18/08/2012	07:21	62.0	37.9	
Saturday	18/08/2012	07:26	53.3	39.7	
Saturday	18/08/2012	07:31	56.1	40.5	
Saturday	18/08/2012	07:36	55.1	40.7	
Saturday	18/08/2012	07:41	53.3	40.8	
Saturday	18/08/2012	07:46	53.7	37.5	
Saturday	18/08/2012	07:51	61.5	40.6	
Saturday	18/08/2012	10:07	59.4	45.2	65.9 47.8 omitted from Summary Calculations
Saturday	18/08/2012	10:12	55.7	40.7	
Saturday	18/08/2012	10:17	56.6	42.7	
Saturday	18/08/2012	10:22	57.2	43.7	
Saturday	18/08/2012	10:27	53.5	40.4	
Saturday	18/08/2012	10:32	59.1	45.0	
Saturday	18/08/2012	10:42	67.3	44.1	
Saturday	18/08/2012	10:47	60.3	45.8	
Saturday	18/08/2012	10:52	63.3	47.2	
Saturday	18/08/2012	10:57	62.8	47.4	
Saturday	18/08/2012	11:02	62.3	48.5	
Saturday	18/08/2012	12:22	53.2	39.7	63.9 42.0 omitted from Summary Calculations
Saturday	18/08/2012	12:27	51.5	39.7	
Saturday	18/08/2012	12:32	54.5	41.3	
Saturday	18/08/2012	12:37	54.5	41.3	
Saturday	18/08/2012	12:42	53.2	40.9	
Saturday	18/08/2012	12:47	51.3	40.1	
Saturday	18/08/2012	12:52	52.9	41.9	
Saturday	18/08/2012	12:57	50.6	39.1	
Saturday	18/08/2012	13:02	45.5	35.8	
Saturday	18/08/2012	13:07	51.0	38.0	
Saturday	18/08/2012	13:12	53.4	40.3	
Saturday	18/08/2012	13:17	48.1	38.6	
Saturday	18/08/2012	14:18	53.14	38.05	67.3 36.9 omitted from Summary Calculations
Saturday	18/08/2012	14:23	49.6	35.5	
Saturday	18/08/2012	14:28	45.6	35.3	
Saturday	18/08/2012	14:33	49.5	37.1	
Saturday	18/08/2012	14:38	44.6	33.5	
Saturday	18/08/2012	14:43	50.3	38.1	
Saturday	18/08/2012	14:48	54.9	41.7	
Saturday	18/08/2012	14:53	59.1	45.7	
Saturday	18/08/2012	14:58	54.5	42.2	
Saturday	18/08/2012	15:03	55.4	43.3	
Saturday	18/08/2012	15:08	52.8	41.2	
Saturday	18/08/2012	15:13	52.6	38.0	

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	RANK L90
Friday	17/08/2012	00:06	76.9	57.8	22
Friday	17/08/2012	00:11	75.7	59.9	24
Friday	17/08/2012	00:16	76.7	59.8	23
Friday	17/08/2012	00:21	71.1	53.6	17
Friday	17/08/2012	00:26	69.9	51.2	12
Friday	17/08/2012	00:31	73.3	57.0	21
Friday	17/08/2012	00:36	74.5	58.2	20
Friday	17/08/2012	00:41	73.5	53.6	16
Friday	17/08/2012	00:46	71.1	53.7	18
Friday	17/08/2012	00:51	72.6	52.8	15
Friday	17/08/2012	00:56	72.6	50.4	10
Friday	17/08/2012	01:01	73.6	55.7	19
Friday	17/08/2012	01:06	70.4	51.8	14
Friday	17/08/2012	01:11	73.6	51.6	13
Friday	17/08/2012	01:16	70.2	49.1	7
Friday	17/08/2012	01:21	69.8	50.9	11
Friday	17/08/2012	01:26	63.9	45.5	1
Friday	17/08/2012	01:31	64.9	45.8	2
Friday	17/08/2012	01:36	67.0	48.6	6
Friday	17/08/2012	01:41	69.4	47.0	4
Friday	17/08/2012	01:46	68.1	50.1	9
Friday	17/08/2012	01:51	65.9	46.8	3
Friday	17/08/2012	01:56	68.8	47.9	5
Friday	17/08/2012	02:01	67.8	49.4	8
Sunday	19/08/2012	00:06	59.7	38.4	omitted from Summary Calculations
Sunday	19/08/2012	00:13	48.4	38.4	9
Sunday	19/08/2012	00:18	51.0	38.6	11
Sunday	19/08/2012	00:23	50.8	37.9	7
Sunday	19/08/2012	00:28	52.7	38.9	12
Sunday	19/08/2012	00:33	58.0	42.6	21
Sunday	19/08/2012	00:38	56.2	43.0	22
Sunday	19/08/2012	00:43	55.5	41.5	18
Sunday	19/08/2012	00:48	56.9	42.2	20
Sunday	19/08/2012	00:53	55.3	39.1	14
Sunday	19/08/2012	00:58	57.1	41.2	16
Sunday	19/08/2012	01:03	54.6	41.3	17
Sunday	19/08/2012	01:08	56.0	42.1	19
Sunday	19/08/2012	01:13	53.2	39.0	13
Sunday	19/08/2012	01:18	50.6	38.5	10
Sunday	19/08/2012	01:23	48.5	36.9	6
Sunday	19/08/2012	01:28	50.6	38.1	8
Sunday	19/08/2012	01:33	51.0	36.0	3
Sunday	19/08/2012	01:38	50.1	34.6	1
Sunday	19/08/2012	01:43	53.8	36.5	5
Sunday	19/08/2012	01:48	46.4	34.6	2
Sunday	19/08/2012	01:53	49.9	36.0	4
Sunday	19/08/2012	01:58	56.0	40.4	15
Sunday	19/08/2012	02:03	60.6	43.1	23

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 04 - No.40 Boghill Road  
**Survey period:** Daytime Weekdays Wednesday 15/08/2012 Thursday 16/08/2012  
 07:00 - 23:00 Weekends Sunday 19/08/2012

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 04 - No.40 Boghill Road  
**Survey period:** NIGHT TIME Weekdays Thursday 16/08/2012  
 23:00 - 07:00 Weekends Monday 20/08/2012

**Microphone Height:** 1.2 m  
**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
**Calibrator:** RION Sound Calibrator NC-74

**Microphone Height:** 1.2 m  
**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
**Calibrator:** RION Sound Calibrator NC-74

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Wednesday	15/08/2012	06:58	65.61	54.62	a
Wednesday	15/08/2012	10:05	71.36	56.34	-
Wednesday	15/08/2012	11:05	74.63	57.97	-
Wednesday	15/08/2012	12:05	76.32	60.60	-
Thursday	16/08/2012	14:06	56.18	44.86	a
Sunday	19/08/2012	07:00	47.72	34.78	a
Sunday	19/08/2012	10:03	50.73	37.32	a
Sunday	19/08/2012	12:20	51.98	42.08	a
Sunday	19/08/2012	15:10	57.71	45.80	a

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Thursday	16/08/2012	00:55	68.75	50.25	
Thursday	16/08/2012	01:10	66.33	51.05	
Thursday	16/08/2012	01:35	65.81	51.08	
Monday	20/08/2012	01:39	32.81	31.57	
Monday	20/08/2012	01:44	32.12	31.34	
Monday	20/08/2012	01:49	33.17	31.77	

Lowest 3

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Sunday	19/08/2012	07:00	47.72	34.78	a
Sunday	19/08/2012	10:03	50.73	37.32	a
Sunday	19/08/2012	12:20	51.98	42.08	a
AVERAGE			50.48	38.06	

Lowest 3

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Monday	20/08/2012	01:39	32.81	31.57	
Monday	20/08/2012	01:44	32.12	31.34	
Monday	20/08/2012	01:49	33.17	31.77	
AVERAGE			32.72	31.56	

**Notes:** a = 1 x 5 min survey period omitted from Summary Calculations (of 60 min survey).  
 Leq Log Average of 5 minute sample periods in 1 hour.  
 L90 50 Percentile of 5 minute sample periods in 1 hour.

Survey Day		Survey Periods (5 min)				Leq	L90	
Day	Date	Time	Leq	L90				
Wednesday	15/08/2012	06:58	65.61	54.62	62.5	51.8	omitted from Summary Calculations	
Wednesday	15/08/2012	07:03	54.2	53.2				
Wednesday	15/08/2012	07:08	58.8	53.1				
Wednesday	15/08/2012	07:13	66.2	54.6				
Wednesday	15/08/2012	07:18	66.1	53.2				
Wednesday	15/08/2012	07:23	67.2	55.0				
Wednesday	15/08/2012	07:28	63.4	54.6				
Wednesday	15/08/2012	07:33	67.2	55.6				
Wednesday	15/08/2012	07:38	62.0	54.2				
Wednesday	15/08/2012	07:43	65.2	54.6				
Wednesday	15/08/2012	07:48	69.0	54.7				
Wednesday	15/08/2012	07:53	69.5	56.7				
Wednesday	15/08/2012	10:05	68.3	54.1				
Wednesday	15/08/2012	10:10	71.0	55.0				
Wednesday	15/08/2012	10:15	74.1	58.9				
Wednesday	15/08/2012	10:20	71.6	57.3				
Wednesday	15/08/2012	10:25	75.4	57.7				
Wednesday	15/08/2012	10:30	72.9	56.4				
Wednesday	15/08/2012	10:35	67.6	56.7				
Wednesday	15/08/2012	10:40	69.3	56.4				
Wednesday	15/08/2012	10:45	67.8	56.3				
Wednesday	15/08/2012	10:50	69.0	54.4				
Wednesday	15/08/2012	10:55	71.1	56.4				
Wednesday	15/08/2012	11:00	69.7	55.6				
Wednesday	15/08/2012	11:05	71.8	57.5				
Wednesday	15/08/2012	11:10	73.0	59.2				
Wednesday	15/08/2012	11:15	71.5	57.1				
Wednesday	15/08/2012	11:20	71.9	56.1				
Wednesday	15/08/2012	11:25	73.3	58.5				
Wednesday	15/08/2012	11:30	74.1	57.5				
Wednesday	15/08/2012	11:35	70.2	55.7				
Wednesday	15/08/2012	11:40	76.1	59.4				
Wednesday	15/08/2012	11:45	68.4	55.8				
Wednesday	15/08/2012	11:50	76.3	63.2				
Wednesday	15/08/2012	11:55	77.7	60.0				
Wednesday	15/08/2012	12:00	77.2	59.8				
Wednesday	15/08/2012	12:05	76.0	62.9				
Wednesday	15/08/2012	12:10	80.3	63.3				
Wednesday	15/08/2012	12:15	74.6	60.5				
Wednesday	15/08/2012	12:20	74.6	59.0				
Wednesday	15/08/2012	12:25	76.1	59.6				
Wednesday	15/08/2012	12:30	76.6	62.9				
Wednesday	15/08/2012	12:35	73.0	58.2				
Wednesday	15/08/2012	12:40	76.3	60.3				
Wednesday	15/08/2012	12:45	70.3	57.7				
Wednesday	15/08/2012	12:50	75.9	60.8				
Wednesday	15/08/2012	12:55	76.2	60.7				
Wednesday	15/08/2012	13:00	76.0	61.4	74.2	42.1	omitted from Summary Calculations	
Thursday	16/08/2012	14:06						
Thursday	16/08/2012	14:11	45.1	43.4				
Thursday	16/08/2012	14:16	55.8	43.3				
Thursday	16/08/2012	14:21	49.8	42.8				
Thursday	16/08/2012	14:26	56.4	45.1				
Thursday	16/08/2012	14:31	54.0	44.9				
Thursday	16/08/2012	14:36	48.2	44.8				
Thursday	16/08/2012	14:41	58.7	53.2				
Thursday	16/08/2012	14:46	53.2	44.7				
Thursday	16/08/2012	14:51	57.3	46.1				
Thursday	16/08/2012	14:56	56.9	47.7				
Thursday	16/08/2012	15:01	62.4	51.5				
Sunday	19/08/2012	07:00			73.2	35.3	omitted from Summary Calculations	
Sunday	19/08/2012	07:05	51.0	36.1				
Sunday	19/08/2012	07:10	52.5	36.2				
Sunday	19/08/2012	07:15	40.7	35.9				
Sunday	19/08/2012	07:20	39.1	34.0				
Sunday	19/08/2012	07:25	36.4	33.7				
Sunday	19/08/2012	07:30	37.2	33.6				
Sunday	19/08/2012	07:35	39.6	34.2				
Sunday	19/08/2012	07:40	54.6	35.6				
Sunday	19/08/2012	07:45	40.9	35.0				
Sunday	19/08/2012	07:50	37.2	34.4				
Sunday	19/08/2012	07:55	38.0	34.8				
Sunday	19/08/2012	10:03			69.1	36.2	omitted from Summary Calculations	
Sunday	19/08/2012	10:08	54.0	37.2				
Sunday	19/08/2012	10:13	43.7	38.2				
Sunday	19/08/2012	10:18	50.7	36.7				
Sunday	19/08/2012	10:23	48.6	37.3				
Sunday	19/08/2012	10:28	40.0	35.5				
Sunday	19/08/2012	10:33	49.4	35.1				
Sunday	19/08/2012	10:38	40.3	35.5				
Sunday	19/08/2012	10:43	44.6	38.4				
Sunday	19/08/2012	10:48	55.6	39.7				
Sunday	19/08/2012	10:53	54.9	42.9				
Sunday	19/08/2012	10:58	44.6	40.0				
Sunday	19/08/2012	12:20			67.1	42.7	omitted from Summary Calculations	
Sunday	19/08/2012	12:25	45.9	41.3				
Sunday	19/08/2012	12:30	54.2	41.2				
Sunday	19/08/2012	12:35	49.1	41.6				
Sunday	19/08/2012	12:40	52.3	42.2				
Sunday	19/08/2012	12:45	44.9	42.6				
Sunday	19/08/2012	12:50	56.3	41.3				
Sunday	19/08/2012	12:55	47.2	41.8				
Sunday	19/08/2012	13:00	48.9	42.8				
Sunday	19/08/2012	13:05	48.8	42.1				
Sunday	19/08/2012	13:10	54.7	43.2				
Sunday	19/08/2012	13:15	53.4	42.5				
Sunday	19/08/2012	15:10			70.5	44.9	omitted from Summary Calculations	
Sunday	19/08/2012	15:15	59.5	46.6				
Sunday	19/08/2012	15:20	56.2	45.8				
Sunday	19/08/2012	15:25	54.9	45.0				
Sunday	19/08/2012	15:30	54.9	43.7				
Sunday	19/08/2012	15:35	57.3	45.2				
Sunday	19/08/2012	15:40	55.0	44.2				
Sunday	19/08/2012	15:45	53.6	43.8				
Sunday	19/08/2012	15:50	59.6	48.5				
Sunday	19/08/2012	15:55	61.3	46.7				
Sunday	19/08/2012	16:00	59.0	46.2				
Sunday	19/08/2012	16:05	56.9	45.8				

Survey NIGHT		Survey Periods (5 min)				Leq	L90	RANK	L90
Day	Date	Time	Leq	L90					
Thursday	16/08/2012	00:55	77.7	61.5					
Thursday	16/08/2012	00:10	79.4	60.6				23	
Thursday	16/08/2012	00:15	74.9	56.7				20	
Thursday	16/08/2012	00:20	76.1	55.6				18	
Thursday	16/08/2012	00:25	77.9	58.0				22	
Thursday	16/08/2012	00:30	72.1	54.0				14	
Thursday	16/08/2012	00:35	68.2	53.8				12	
Thursday	16/08/2012	00:40	67.6	53.3				10	
Thursday	16/08/2012	00:45	73.8	54.5				17	
Thursday	16/08/2012	00:50	76.2	57.4				21	
Thursday	16/08/2012	00:55	68.8	50.2				1	
Thursday	16/08/2012	01:00	70.7	51.2				4	
Thursday	16/08/2012	01:05	68.9	52.2					

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 05 - No.32 Boghill Road  
**Survey period:** **Daytime** Weekdays Wednesday 15/08/2012 Thursday 16/08/2012  
 07:00 - 23:00 Weekends Sunday 19/08/2012

**Project:** ARC21 Residual Waste Treatment Project: Hightown Quarry  
**Survey Location:** Location 05 - No.32 Boghill Road  
**Survey period:** **NIGHT TIME** Weekdays Wednesday 15/08/2012 Thursday 16/08/2012  
 23:00 - 07:00 Weekends Monday 20/08/2012

**Microphone Height:** 1.2 m

**Microphone Height:** 1.2 m

**Sound Level Meter:** 2 x RION Sound Level Meter NL-32 with Enhanced Outdoor Kits and Outdoor Microphone Protection  
**Calibrator:** RION Sound Calibrator NC-74

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Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Wednesday	15/08/2012	06:53	57.69	51.43	a
Wednesday	15/08/2012	09:58	64.33	54.91	a
Wednesday	15/08/2012	10:58	69.12	55.87	-
Wednesday	15/08/2012	11:58	69.37	58.01	-
Thursday	16/08/2012	14:05	52.86	50.52	a
Sunday	19/08/2012	07:00	38.75	34.17	a
Sunday	19/08/2012	10:00	40.16	35.36	b
Sunday	19/08/2012	12:21	44.98	39.09	a
Sunday	19/08/2012	15:02	50.53	45.72	a

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Thursday	16/08/2012	01:34	57.43	50.80	
Thursday	16/08/2012	01:39	53.21	50.21	
Thursday	16/08/2012	01:49	53.69	50.53	
Monday	20/08/2012	01:40	36.55	34.94	
Monday	20/08/2012	01:45	36.62	34.77	
Monday	20/08/2012	01:50	37.26	34.92	

**Lowest 3**

Survey Day		Survey Periods (1 hr)			
Day	Date	Time	Leq	L90	Notes
Sunday	19/08/2012	07:00	38.75	34.17	a
Sunday	19/08/2012	10:00	40.16	35.36	b
Sunday	19/08/2012	12:21	44.98	39.09	a
<b>AVERAGE</b>			<b>42.16</b>	<b>36.21</b>	

**Lowest 3**

Survey NIGHT		Survey Periods (5 min)			
Day	Date	Time	Leq	L90	Notes
Monday	20/08/2012	01:40	36.55	34.94	
Monday	20/08/2012	01:45	36.62	34.77	
Monday	20/08/2012	01:50	37.26	34.92	
<b>AVERAGE</b>			<b>36.82</b>	<b>34.88</b>	

**Notes:** a = 1 x 5 min survey period omitted from Summary Calculations (of 60 min survey).  
 b = 2 x 5 min survey periods omitted from Summary Calculations (of 60 min survey).

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 b = 2 x 5 min survey periods omitted from Summary Calculations (of 60 min survey).

L<sub>90q</sub> Log Average of 5 minute sample periods in 1 hour. L<sub>90</sub> 50 Percentile of 5 minute sample periods in 1 hour.

Survey Day		Survey Periods (5 min)				Leq	L90	RANK L90
Day	Date	Time	Leq	L90				
Wednesday	15/08/2012	06:53	57.69	51.43	68.4	49.0	omitted from Summary Calculations	
Wednesday	15/08/2012	06:58	50.9	48.3				
Wednesday	15/08/2012	07:03	49.5	48.4				
Wednesday	15/08/2012	07:08	51.3	49.6				
Wednesday	15/08/2012	07:13	54.1	49.6				
Wednesday	15/08/2012	07:18	57.9	51.4				
Wednesday	15/08/2012	07:23	57.9	52.0				
Wednesday	15/08/2012	07:28	56.6	51.1				
Wednesday	15/08/2012	07:33	59.4	52.0				
Wednesday	15/08/2012	07:38	63.1	53.9				
Wednesday	15/08/2012	07:43	60.9	52.8				
Wednesday	15/08/2012	07:48	57.7	51.9				
Wednesday	15/08/2012	09:58	61.5	52.8	73.7	52.8	omitted from Summary Calculations	
Wednesday	15/08/2012	10:03	61.5	50.5				
Wednesday	15/08/2012	10:08	59.4	51.5				
Wednesday	15/08/2012	10:13	63.6	55.4				
Wednesday	15/08/2012	10:18	63.3	52.0				
Wednesday	15/08/2012	10:23	62.8	54.3				
Wednesday	15/08/2012	10:28	68.3	67.5				
Wednesday	15/08/2012	10:33	65.3	55.4				
Wednesday	15/08/2012	10:38	64.5	54.9				
Wednesday	15/08/2012	10:43	66.7	57.3				
Wednesday	15/08/2012	10:48	66.5	55.9				
Wednesday	15/08/2012	10:53	62.3	53.2				
Wednesday	15/08/2012	10:58	65.1	55.0				
Wednesday	15/08/2012	11:03	66.2	55.3				
Wednesday	15/08/2012	11:08	67.1	55.1				
Wednesday	15/08/2012	11:13	68.3	56.0				
Wednesday	15/08/2012	11:18	66.4	55.0				
Wednesday	15/08/2012	11:23	67.2	55.7				
Wednesday	15/08/2012	11:28	67.3	57.0				
Wednesday	15/08/2012	11:33	69.3	55.6				
Wednesday	15/08/2012	11:38	70.1	57.2				
Wednesday	15/08/2012	11:43	73.9	61.5				
Wednesday	15/08/2012	11:48	70.6	60.0				
Wednesday	15/08/2012	11:53	69.6	57.5				
Wednesday	15/08/2012	11:58	69.3	58.6				
Wednesday	15/08/2012	12:03	67.6	56.7				
Wednesday	15/08/2012	12:08	70.1	58.6				
Wednesday	15/08/2012	12:13	67.7	56.6				
Wednesday	15/08/2012	12:18	71.6	59.7				
Wednesday	15/08/2012	12:23	70.8	58.1				
Wednesday	15/08/2012	12:28	72.3	58.3				
Wednesday	15/08/2012	12:33	71.2	58.6				
Wednesday	15/08/2012	12:38	64.7	57.2				
Wednesday	15/08/2012	12:43	66.9	54.5				
Wednesday	15/08/2012	12:48	64.1	55.4				
Wednesday	15/08/2012	12:53	68.3	57.9				
Thursday	16/08/2012	14:05	51.8	50.5	71.3	50.8	omitted from Summary Calculations	
Thursday	16/08/2012	14:10	51.8	50.5				
Thursday	16/08/2012	14:15	51.6	50.4				
Thursday	16/08/2012	14:20	54.6	50.8				
Thursday	16/08/2012	14:25	52.1	50.1				
Thursday	16/08/2012	14:30	52.0	50.5				
Thursday	16/08/2012	14:35	51.7	49.9				
Thursday	16/08/2012	14:40	51.2	49.7				
Thursday	16/08/2012	14:45	56.3	52.6				
Thursday	16/08/2012	14:50	51.8	50.0				
Thursday	16/08/2012	14:55	53.7	50.8				
Thursday	16/08/2012	15:00	55.0	51.1				
Sunday	19/08/2012	07:00	38.75	34.17	66.0	37.2	omitted from Summary Calculations	
Sunday	19/08/2012	07:05	38.0	34.6				
Sunday	19/08/2012	07:10	38.6	34.7				
Sunday	19/08/2012	07:15	40.0	34.2				
Sunday	19/08/2012	07:20	40.7	35.2				
Sunday	19/08/2012	07:25	38.9	34.2				
Sunday	19/08/2012	07:30	40.7	34.2				
Sunday	19/08/2012	07:35	36.6	33.7				
Sunday	19/08/2012	07:40	35.6	33.1				
Sunday	19/08/2012	07:45	37.7	33.6				
Sunday	19/08/2012	07:50	39.9	34.1				
Sunday	19/08/2012	07:55	38.5	33.5				
Sunday	19/08/2012	10:00	40.1	35.2	68.0	34.5	omitted from Summary Calculations	
Sunday	19/08/2012	10:05	38.1	35.2				
Sunday	19/08/2012	10:10	40.1	36.4				
Sunday	19/08/2012	10:15	40.7	35.2				
Sunday	19/08/2012	10:20	39.9	35.6				
Sunday	19/08/2012	10:25	41.8	34.6				
Sunday	19/08/2012	10:30	41.5	34.7				
Sunday	19/08/2012	10:35	40.9	34.4				
Sunday	19/08/2012	10:40	42.6	36.8				
Sunday	19/08/2012	10:45	38.4	35.5				
Sunday	19/08/2012	10:50	39.8	36.4				
Sunday	19/08/2012	10:55	38.5	35.4				
Sunday	19/08/2012	12:21	44.98	39.09	56.9	39.0	omitted from Summary Calculations	
Sunday	19/08/2012	12:26	45.6	38.8	69.8	39.1	omitted from Summary Calculations	
Sunday	19/08/2012	12:31	44.6	37.8				
Sunday	19/08/2012	12:36	42.9	38.3				
Sunday	19/08/2012	12:41	43.8	38.5				
Sunday	19/08/2012	12:46	42.8	39.1				
Sunday	19/08/2012	12:51	45.6	39.4				
Sunday	19/08/2012	12:56	42.6	38.7				
Sunday	19/08/2012	13:01	46.3	39.8				
Sunday	19/08/2012	13:06	48.0	39.8				
Sunday	19/08/2012	13:11	43.5	39.1				
Sunday	19/08/2012	13:16	45.4	39.2				
Sunday	19/08/2012	15:02	50.7	46.8	70.2	46.6	omitted from Summary Calculations	
Sunday	19/08/2012	15:07	54.7	46.8				
Sunday	19/08/2012	15:12	51.7	45.3				
Sunday	19/08/2012	15:17	49.9	45.7				
Sunday	19/08/2012	15:22	51.9	45.9				
Sunday	19/08/2012	15:27	50.0	45.9				
Sunday	19/08/2012	15:32	48.3	45.5				
Sunday	19/08/2012	15:37	48.9	46.0				
Sunday	19/08/2012	15:42	48.1	45.2				
Sunday	19/08/2012	15:47	48.0	45.6				
Sunday	19/08/2012	15:52	50.3	46.2				
Sunday	19/08/2012	15:57	48.2	45.1				

Survey NIGHT		Survey Periods (5 min)				Leq	L90	RANK L90
Day	Date	Time	Leq	L90				
Wednesday	15/08/2012	23:59	56.6	53.3	70.2	54.5	omitted from Summary Calculations	
Thursday	16/08/2012	00:09	61.8	53.8				
Thursday	16/08/2012	00:14	56.6	52.7				
Thursday	16/08/2012	00:19	57.3	52.6				
Thursday	16/08/2012	00:24	60.3	54.2				
Thursday	16/08/2012	00:29	61.1	53.9				
Thursday	16/08/2012	00:34	57.6	52.7				
Thursday	16/08/2012	00:39	54.9	51.9				
Thursday	16/08/2012	00:44	60.7	53.4				
Thursday	16/08/2012	00:49	56.1	52.8				
Thursday	16/08/2012	00:54	53.2	51.3				
Thursday	16/08/2012	00:59	56.4	52.1				
Thursday	16/08/2012	01:04	58.7	52.5				
Thursday	16/08/2012	01:09	57.6	52.0				
Thursday	16/08/2012	01:14	57.2	52.1				
Thursday	16/08/2012	01:19	54.1	51.5				
Thursday	16/08/2012	01:24	59.1	52.4				
Thursday	16/08/2012	01:29	56.6	51.9				
Thursday	16/08/2012	01:34	57.4	50.8				
Thursday	16/08/2012	01:39	53.2	50.2				
Thursday	16/08/2012	01:44	58.7	50.9				
Thursday	16/08/2012	01:49	53.7	50.5				
Thursday	16/08/2012	01:54	57.4	51.9				
Monday	20/08/2012	00:00	38.0	36.1	69.4	38.3	omitted from Summary Calculations	
Monday	20/08/2012	00:05	38.7	36.1				
Monday	20/08/2012	00:10	38.1	36.1				
Monday	20/08/2012	00:15	38.0	36.1				
Monday	20/08/2012	00:20	37.9	35.9				
Monday	20/08/2012	00:25	37.4	35.3				