



APPENDIX 4.1: NOISE TECHNICAL APPENDIX

APPENDIX A:

Hourly Summary (long term measurement at Kemp Farm)

Hourly summary					
Date	Time	L _{Aeq,1h}	L _{AF,max}	L _{A90}	L _{A10}
20/09/2017	16:00-17:00	53.1	79.4	43.5	55.2
20/09/2017	17:00-18:00	57.2	84.5	44.7	57.6
20/09/2017	18:00-19:00	52.0	66.7	41.6	55.1
20/09/2017	19:00-20:00	52.8	79.3	40.0	53.6
20/09/2017	20:00-21:00	49.5	67.5	36.3	50.6
20/09/2017	21:00-22:00	49.7	67.6	35.2	50.0
20/09/2017	22:00-23:00	48.3	66.5	33.7	48.5
20/09/2017	23:00-00:00	46.3	65.2	33.1	46.0
21/09/2017	00:00-01:00	42.7	62.9	32.6	41.8
21/09/2017	01:00-02:00	42.7	63.9	32.5	38.1
21/09/2017	02:00-03:00	42.8	62.7	32.4	38.0
21/09/2017	03:00-04:00	37.5	61.1	32.9	37.4
21/09/2017	04:00-05:00	42.6	62.7	34.0	42.1
21/09/2017	05:00-06:00	46.8	68.3	35.2	47.7
21/09/2017	06:00-07:00	59.9	87.8	39.1	55.9
21/09/2017	07:00-08:00	55.3	81.8	43.3	57.6
21/09/2017	08:00-09:00	53.1	74.1	44.0	56.2
21/09/2017	09:00-10:00	54.8	81.9	45.6	57.5
21/09/2017	10:00-11:00	54.5	79.7	44.4	56.5
21/09/2017	11:00-12:00	54.2	76.4	47.0	57.1
21/09/2017	12:00-13:00	54.7	72.6	46.6	57.4
21/09/2017	13:00-14:00	52.8	75.1	44.9	55.4
21/09/2017	14:00-15:00	53.7	82.1	44.3	56.8
21/09/2017	15:00-16:00	53.5	77.0	43.8	56.4
21/09/2017	16:00-17:00	53.4	74.9	44.4	55.5
21/09/2017	17:00-18:00	52.9	76.3	46.5	54.2
21/09/2017	18:00-19:00	57.0	87.8	43.7	53.8
21/09/2017	19:00-20:00	49.7	76.3	40.1	50.5
21/09/2017	20:00-21:00	47.2	65.7	38.5	48.4
21/09/2017	21:00-22:00	48.8	66.5	37.8	47.1
21/09/2017	22:00-23:00	47.2	66.7	37.0	45.2
21/09/2017	23:00-00:00	45.8	66.8	36.5	43.8
22/09/2017	00:00-01:00	42.6	64.1	36.7	42.4

Hourly summary					
Date	Time	L _{Aeq,1h}	L _{AF,max}	L _{A90}	L _{A10}
22/09/2017	01:00-02:00	39.9	64.4	35.0	38.8
22/09/2017	02:00-03:00	41.1	62.7	34.4	39.2
22/09/2017	03:00-04:00	36.5	50.2	33.7	37.6
22/09/2017	04:00-05:00	39.2	61.8	33.8	40.2
22/09/2017	05:00-06:00	44.4	63.7	34.0	45.9
22/09/2017	06:00-07:00	59.0	90.7	37.7	53.6
22/09/2017	07:00-08:00	53.8	76.4	44.2	55.3
22/09/2017	08:00-09:00	56.3	85.4	44.2	57.6
22/09/2017	09:00-10:00	63.2	81.0	41.8	62.2
22/09/2017	10:00-11:00	67.5	77.7	42.4	68.4
22/09/2017	11:00-12:00	72.1	83.9	44.4	74.5
22/09/2017	12:00-13:00	65.2	88.9	39.4	59.1
22/09/2017	13:00-14:00	52.7	81.7	39.0	51.8
22/09/2017	14:00-15:00	50.5	70.2	39.2	51.9
22/09/2017	15:00-16:00	54.1	82.4	42.3	54.4
22/09/2017	16:00-17:00	53.3	76.8	41.9	54.6
22/09/2017	17:00-18:00	56.0	80.6	43.3	56.4
22/09/2017	18:00-19:00	51.5	68.8	41.3	54.4
22/09/2017	19:00-20:00	52.2	74.1	40.6	52.9
22/09/2017	20:00-21:00	49.2	67.1	38.8	49.6
22/09/2017	21:00-22:00	48.5	66.5	38.0	49.8
22/09/2017	22:00-23:00	48.1	65.9	37.9	49.4
22/09/2017	23:00-00:00	46.7	65.7	38.0	47.1
23/09/2017	00:00-01:00	43.4	63.5	36.8	43.4
23/09/2017	01:00-02:00	41.7	63.8	35.1	40.6
23/09/2017	02:00-03:00	42.9	64.0	34.8	40.6
23/09/2017	03:00-04:00	39.6	63.7	35.1	38.8
23/09/2017	04:00-05:00	40.6	65.4	33.9	40.2
23/09/2017	05:00-06:00	42.4	64.9	32.8	43.1
23/09/2017	06:00-07:00	60.7	90.7	36.7	52.4
23/09/2017	07:00-08:00	54.9	81.6	38.2	54.0
23/09/2017	08:00-09:00	51.8	79.7	40.9	52.8
23/09/2017	09:00-10:00	52.8	76.7	40.9	54.1
23/09/2017	10:00-11:00	54.7	86.3	40.4	55.3
23/09/2017	11:00-12:00	51.8	78.0	39.8	53.5
23/09/2017	12:00-13:00	51.4	71.5	40.5	53.8
23/09/2017	13:00-14:00	51.4	75.4	40.8	52.7
23/09/2017	14:00-15:00	51.2	72.0	40.2	53.3
23/09/2017	15:00-16:00	61.3	85.7	44.6	60.4

Hourly summary					
Date	Time	L _{Aeq,1h}	L _{AF,max}	L _{A90}	L _{A10}
23/09/2017	16:00-17:00	60.3	89.5	42.6	59.6
23/09/2017	17:00-18:00	54.5	80.5	41.4	55.9
23/09/2017	18:00-19:00	53.0	73.9	40.2	55.0
23/09/2017	19:00-20:00	51.3	81.8	40.4	51.9
23/09/2017	20:00-21:00	48.7	65.3	35.5	49.4
23/09/2017	21:00-22:00	48.7	66.5	35.0	49.3
23/09/2017	22:00-23:00	48.6	67.0	35.2	49.4
23/09/2017	23:00-00:00	47.2	66.0	34.2	46.7
24/09/2017	00:00-01:00	42.9	64.5	33.4	43.7
24/09/2017	01:00-02:00	43.2	64.1	32.6	43.2
24/09/2017	02:00-03:00	39.4	65.3	32.2	38.2
24/09/2017	03:00-04:00	34.6	49.9	32.3	35.5
24/09/2017	04:00-05:00	37.4	58.8	32.2	37.8
24/09/2017	05:00-06:00	42.2	64.7	32.6	41.9
24/09/2017	06:00-07:00	51.7	84.1	36.0	52.0
24/09/2017	07:00-08:00	55.2	86.0	38.8	55.2
24/09/2017	08:00-09:00	51.1	79.5	38.2	52.2
24/09/2017	09:00-10:00	52.8	79.2	40.4	53.0
24/09/2017	10:00-11:00	62.5	87.5	41.3	58.1
24/09/2017	11:00-12:00	53.6	76.6	42.4	55.4
24/09/2017	12:00-13:00	51.5	79.4	42.1	53.0
24/09/2017	13:00-14:00	50.0	67.3	41.8	52.4
24/09/2017	14:00-15:00	57.0	85.6	40.7	52.8
24/09/2017	15:00-16:00	50.1	73.9	41.0	52.1
24/09/2017	16:00-17:00	50.9	74.0	40.9	53.2
24/09/2017	17:00-18:00	49.6	71.9	40.0	51.5
24/09/2017	18:00-19:00	50.9	77.3	40.6	52.1
24/09/2017	19:00-20:00	49.6	76.5	39.8	50.9
24/09/2017	20:00-21:00	49.4	65.7	44.1	50.5
24/09/2017	21:00-22:00	45.3	64.3	36.9	43.9
24/09/2017	22:00-23:00	44.7	64.5	37.2	44.3
24/09/2017	23:00-00:00	44.9	63.7	36.7	45.5
25/09/2017	00:00-01:00	42.6	65.3	34.9	41.7
25/09/2017	01:00-02:00	37.1	54.1	34.6	38.0
25/09/2017	02:00-03:00	38.1	62.0	34.6	37.9
25/09/2017	03:00-04:00	36.3	59.2	34.6	37.2
25/09/2017	04:00-05:00	43.3	62.5	38.6	43.9
25/09/2017	05:00-06:00	47.0	67.1	39.8	48.5
25/09/2017	06:00-07:00	51.7	78.3	40.5	52.0

Hourly summary					
Date	Time	L _{Aeq,1h}	L _{AF,max}	L _{A90}	L _{A10}
25/09/2017	07:00-08:00	55.7	92.1	42.2	54.4
25/09/2017	08:00-09:00	52.3	73.9	42.8	53.4
25/09/2017	09:00-10:00	54.0	79.2	43.8	56.3
25/09/2017	10:00-11:00	53.3	77.2	40.4	54.0
25/09/2017	11:00-12:00	53.6	83.2	40.3	54.0
25/09/2017	12:00-13:00	55.1	81.0	39.7	55.2
25/09/2017	13:00-14:00	52.4	76.7	39.5	54.2
25/09/2017	14:00-15:00	54.4	82.1	39.5	53.6
25/09/2017	15:00-16:00	55.9	80.0	39.7	53.9
25/09/2017	16:00-17:00	53.0	76.7	40.6	53.6
25/09/2017	17:00-18:00	50.1	68.8	41.2	50.8
25/09/2017	18:00-19:00	53.4	82.2	40.7	54.0
25/09/2017	19:00-20:00	49.8	66.3	36.9	49.6
25/09/2017	20:00-21:00	48.5	67.2	34.8	47.0
25/09/2017	21:00-22:00	48.6	66.6	33.7	46.1
25/09/2017	22:00-23:00	46.6	66.2	32.8	43.2
25/09/2017	23:00-00:00	44.7	66.8	32.6	41.4
26/09/2017	00:00-01:00	41.9	63.3	32.7	38.8
26/09/2017	01:00-02:00	39.9	64.0	32.6	36.9
26/09/2017	02:00-03:00	36.5	61.9	32.5	35.9
26/09/2017	03:00-04:00	38.1	63.3	32.6	36.3
26/09/2017	04:00-05:00	41.0	65.1	32.6	38.0
26/09/2017	05:00-06:00	42.2	63.5	32.6	40.8
26/09/2017	06:00-07:00	50.8	73.6	36.2	52.1
26/09/2017	07:00-08:00	54.0	79.9	40.8	55.8
26/09/2017	08:00-09:00	53.5	77.2	40.4	55.2
26/09/2017	09:00-10:00	54.0	80.3	39.3	55.8
26/09/2017	10:00-11:00	56.4	84.2	38.9	57.3
26/09/2017	11:00-12:00	51.2	78.4	38.5	52.2
26/09/2017	12:00-13:00	49.9	77.0	38.1	50.2
26/09/2017	13:00-14:00	49.5	70.9	38.0	50.4
26/09/2017	14:00-15:00	49.8	76.5	38.0	49.8
26/09/2017	15:00-16:00	55.7	85.3	40.1	53.2
26/09/2017	16:00-17:00	53.4	82.4	40.6	52.5
26/09/2017	17:00-18:00	53.4	79.7	43.4	55.0
26/09/2017	18:00-19:00	52.4	78.3	41.8	53.8
26/09/2017	19:00-20:00	52.0	73.4	39.4	52.5
26/09/2017	20:00-21:00	48.2	68.2	35.5	46.6
26/09/2017	21:00-22:00	48.8	65.8	34.8	47.8

Hourly summary					
Date	Time	L _{Aeq,1h}	L _{AF,max}	L _{A90}	L _{A10}
26/09/2017	22:00-23:00	47.4	66.8	34.1	46.0
26/09/2017	23:00-00:00	46.7	65.5	33.1	45.5
27/09/2017	00:00-01:00	42.8	63.0	32.0	41.3
27/09/2017	01:00-02:00	43.2	64.4	31.7	39.2
27/09/2017	02:00-03:00	44.2	64.0	31.9	40.3
27/09/2017	03:00-04:00	41.8	65.5	31.8	36.5
27/09/2017	04:00-05:00	37.6	61.6	32.7	38.9
27/09/2017	05:00-06:00	44.0	64.0	34.4	44.0
27/09/2017	06:00-07:00	60.3	90.5	39.6	53.3
27/09/2017	07:00-08:00	55.1	80.5	43.6	56.3
27/09/2017	08:00-09:00	53.7	81.4	43.1	56.3
27/09/2017	09:00-10:00	56.5	84.8	41.8	57.1
27/09/2017	10:00-11:00	52.9	80.9	38.9	54.6
27/09/2017	11:00-12:00	50.8	75.3	39.1	52.8
27/09/2017	12:00-13:00	51.2	66.5	39.9	53.9
27/09/2017	13:00-14:00	51.3	71.7	40.0	53.4
27/09/2017	14:00-15:00	51.7	66.9	41.9	54.3
27/09/2017	15:00-16:00	54.8	82.4	43.0	55.6
27/09/2017	16:00-17:00	53.7	84.3	44.2	54.9
27/09/2017	17:00-18:00	55.0	83.3	43.8	55.4
27/09/2017	18:00-19:00	52.7	77.2	43.5	55.2
27/09/2017	19:00-20:00	52.0	77.9	45.2	53.1
27/09/2017	20:00-21:00	52.3	67.9	46.9	53.0
27/09/2017	21:00-22:00	50.0	67.2	41.6	50.2
27/09/2017	22:00-23:00	49.9	66.6	42.0	49.8
27/09/2017	23:00-00:00	52.4	65.8	47.0	53.6
28/09/2017	00:00-01:00	54.7	65.2	49.9	56.8
28/09/2017	01:00-02:00	46.4	67.5	38.8	46.6
28/09/2017	02:00-03:00	48.5	65.2	40.2	50.0
28/09/2017	03:00-04:00	45.3	64.9	37.6	45.0
28/09/2017	04:00-05:00	42.5	64.1	36.0	44.3
28/09/2017	05:00-06:00	47.0	66.9	35.5	49.2
28/09/2017	06:00-07:00	50.8	76.2	38.7	53.1
28/09/2017	07:00-08:00	53.1	82.0	41.9	54.6
28/09/2017	08:00-09:00	53.5	76.5	42.3	56.2
28/09/2017	09:00-10:00	66.8	90.2	43.6	62.4
28/09/2017	10:00-11:00	74.0	93.7	52.3	70.1
28/09/2017	11:00-12:00	52.0	78.0	38.3	53.0
28/09/2017	12:00-13:00	55.6	89.4	39.2	53.6

Hourly summary					
Date	Time	L _{Aeq,1h}	L _{AF,max}	L _{A90}	L _{A10}
28/09/2017	13:00-14:00	55.2	82.6	39.2	52.9
28/09/2017	14:00-15:00	50.6	73.6	38.9	51.4
28/09/2017	15:00-16:00	53.5	77.8	39.7	54.0
28/09/2017	16:00-17:00	52.0	72.7	42.3	54.4
28/09/2017	17:00-17:45	55.3	79.0	42.2	54.3

APPENDIX B:

Summary Short Term Measurement at Location R2

Date	Start Time	Duration (hh:mm)	Statistical Parameters, dB			
			L _{Aeq, T}	L _{Amax, T}	L _{A10, T}	L _{A90, T}
20/09/2017	17:26:36	00:15	61.0	87.1	53.3	38.4
20/09/2017	17:41:36	00:15	46.4	75.2	45.3	37.4
20/09/2017	17:56:36	00:15	59.0	86.3	48.7	37.6
20/09/2017	18:11:36	00:15	61.6	88.3	49.0	37.8
28/09/2017	19:34:50	00:05	40.8	59.4	43.9	30.9
28/09/2017	19:39:50	00:05	34.1	52.3	37.4	28.8
28/09/2017	19:44:50	00:05	33.2	46.1	35.5	30.3
28/09/2017	19:49:50	00:05	31.3	44.5	34.1	27.2
28/09/2017	19:54:50	00:05	32.4	42.6	34.4	29.1
28/09/2017	19:59:50	00:05	32.5	43.3	35.8	27.6
28/09/2017	20:04:50	00:05	34.4	47.9	37.7	29.0
28/09/2017	20:09:50	00:05	35.1	47.0	35.6	29.5
28/09/2017	20:14:50	00:05	35.1	52.2	37.5	29.7
28/09/2017	20:19:50	00:05	35.1	45.3	38.2	29.2
28/09/2017	20:24:50	00:05	34.7	42.9	38.4	29.0
28/09/2017	20:29:50	00:05	32.8	43.5	35.4	27.4

Date	Start Time	Duration (hh:mm)	Statistical Parameters, dB			
			L _{Aeq, T}	L _{Amax, T}	L _{A10, T}	L _{A90, T}
21/09/2017	23:15:47	00:15	35.7	57.2	39.4	25.5
21/09/2017	23:30:47	00:15	32.1	47.1	35.1	25.4
21/09/2017	23:45:47	00:15	31.0	51.0	33.5	26.6
22/09/2017	00:00:47	00:15	32.8	52.6	35.9	27.7

Summary Short Term Measurement at Location R3

Date	Start Time	Duration (hh:mm)	Statistical Parameters, dB			
			L _{Aeq, T}	L _{Amax, T}	L _{A10, T}	L _{A90, T}
20/09/2017	16:14:57	00:15	44.7	66.5	44.8	39.4
20/09/2017	16:29:57	00:15	44.7	62.0	46.3	40.5
20/09/2017	16:44:57	00:15	51.6	74.1	47.3	41.2
20/09/2017	16:59:57	00:15	51.8	75.3	48.8	40.6
21/09/2017	21:05:24	00:15	34.6	56.8	37.3	29.5
21/09/2017	21:20:24	00:15	49.4	74.7	43.1	30.8
21/09/2017	21:35:24	00:15	42.4	70.5	37.3	30.1
21/09/2017	21:50:24	00:15	40.3	62.7	40.7	29.3
21/09/2017	22:05:24	00:15	35.6	65.3	37.3	27.6
21/09/2017	22:20:24	00:15	41.0	73.8	36.4	27.1
21/09/2017	22:35:24	00:15	42.3	67.1	39.1	26.6
21/09/2017	22:50:24	00:15	30.6	53.7	33.4	25.5

Summary Short Term Measurement at Location R4

Date	Start Time	Duration (hh:mm)	Statistical Parameters, dB			
			L _{Aeq, T}	L _{Amax, T}	L _{A10, T}	L _{A90, T}
21/09/2017	12:26:39	00:15	51.1	67.1	53.7	46.0
21/09/2017	12:41:39	00:15	52.4	69.4	54.8	47.0
21/09/2017	12:56:39	00:15	50.9	80.3	52.7	43.2
21/09/2017	13:11:39	00:15	48.6	56.0	51.6	43.6
28/09/2017	20:50:20	00:05	44.9	74.9	42.8	32.2
28/09/2017	20:55:20	00:05	45.7	69.1	46.7	31.1
28/09/2017	21:00:20	00:05	40.8	53.7	44.8	32.3
28/09/2017	21:05:20	00:05	39.6	56.3	41.3	29.6
28/09/2017	21:10:20	00:05	40.9	49.9	43.7	33.8
28/09/2017	21:15:20	00:05	47.8	69.5	47.1	30.5
28/09/2017	21:20:20	00:05	37.6	49.4	41.4	28.5
28/09/2017	21:25:20	00:05	45.0	66.0	44.1	31.4
28/09/2017	21:30:20	00:05	41.2	53.4	44.0	32.3
28/09/2017	21:35:20	00:05	41.1	53.0	45.6	29.8
28/09/2017	21:40:20	00:05	38.1	48.1	40.5	31.9
28/09/2017	21:45:20	00:05	42.9	55.2	46.1	36.3
22/09/2017	00:22:03	00:15	30.8	60.0	32.8	23.9
22/09/2017	00:37:03	00:15	27.7	44.4	30.5	23.9

Date	Start Time	Duration (hh:mm)	Statistical Parameters, dB			
			L _{Aeq, T}	L _{Amax, T}	L _{A10, T}	L _{A90, T}
22/09/2017	00:52:03	00:15	27.3	47.4	29.4	23.8
22/09/2017	01:07:03	00:15	27.7	55.9	28.5	23.3

Summary Short Term Measurement at Location R5

Date	Start Time	Duration (hh:mm)	Statistical Parameters, dB			
			L _{Aeq, T}	L _{Amax, T}	L _{A10, T}	L _{A90, T}
21/09/2017	11:11:04	00:15	70.4	89.8	74.9	47.9
21/09/2017	11:26:04	00:15	70.2	88.1	74	46.6
21/09/2017	11:41:04	00:15	70.6	89.6	75.3	47.3
21/09/2017	11:56:04	00:15	69.8	85.2	74.7	47.8
21/09/2017	19:33:08	00:15	70.9	86.8	75.6	44.5
21/09/2017	19:48:08	00:15	70.3	87.5	74.2	40.1
21/09/2017	20:03:08	00:15	68.7	87.4	70.4	37.3
21/09/2017	20:18:08	00:15	69.4	87.2	71.9	40.9
20/09/2017	22:00:01	00:15	64.9	83.8	65.1	31.4
20/09/2017	22:15:01	00:15	63.7	83.4	62.4	28.4
20/09/2017	22:30:01	00:15	62.6	83.7	60.4	30.4
20/09/2017	22:45:01	00:15	62.3	87.3	58.6	30.4