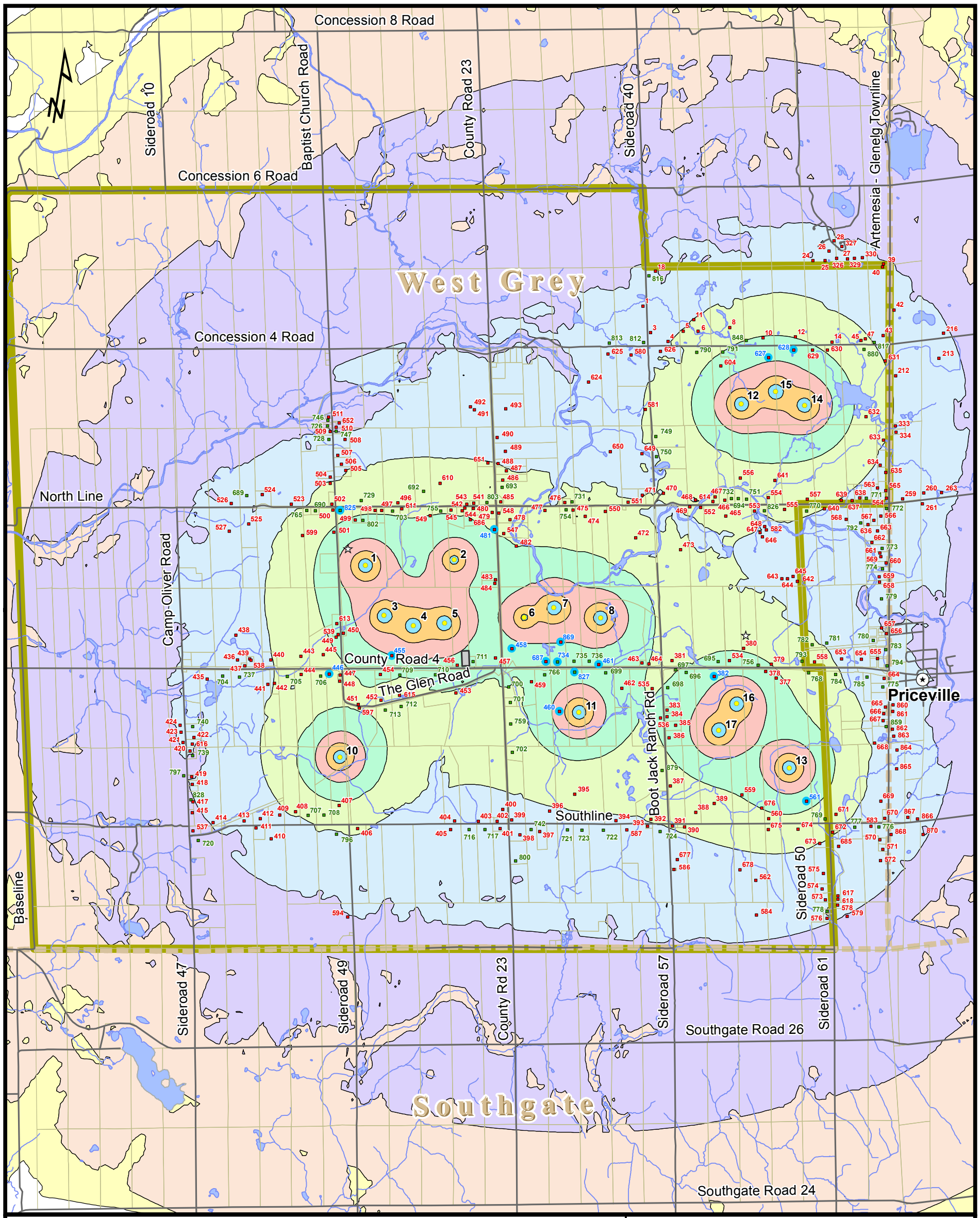

Receptor

Vacant Lot Receptor

Participating Receptor

Proposed Wind Turbine (Sept 12, 2012)

Town / Village

Roadway

Proposed Substation

Parcel

Municipal Lower Tier

Project Boundary

Hourly Sound Exposure

- 10 - 15 dBA
- 15 - 20 dBA
- 20 - 25 dBA
- 25 - 30 dBA
- 30 - 35 dBA
- 35 - 40 dBA
- 40 - 45 dBA
- 45 - 50 dBA
- 50 - 55 dBA

NEXTera ENERGY RESOURCES

GENIVAR

Scale:

0 500 1,000 2,000 3,000 m

1:50,000

Project:

EAST DURHAM
WIND ENERGY CENTRE

Title:

East Durham
Noise Analysis

Project No:.	Date:
MA-111-15446-MA	January 2013
Revision No:.	Figure No:.
1	D2

Attachment E

Sample Calculations

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (m)	9000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.70
Wind Speed for Dir. (m/s)	3.0
Roads (???)	
Railways (???)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver
Name: Dwelling
ID: 484
X: 524373.80
Y: 4894786.20
Z: 451.48

Point Source, ISO 9613, Name: "T1", ID: "T1"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	522697.00	4894753.00	520.00	0	32	80.1	80.1	0.0	0.0	75.5	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	7.5	7.5
2	522697.00	4894753.00	520.00	0	63	89.6	89.6	0.0	0.0	75.5	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	16.9	16.9
3	522697.00	4894753.00	520.00	0	125	94.3	94.3	0.0	0.0	75.5	0.7	1.8	0.0	0.0	0.0	0.0	-0.0	16.3	16.3
4	522697.00	4894753.00	520.00	0	250	95.2	95.2	0.0	0.0	75.5	1.8	0.1	0.0	0.0	0.0	0.0	-0.0	17.9	17.9
5	522697.00	4894753.00	520.00	0	500	96.5	96.5	0.0	0.0	75.5	3.2	-0.9	0.0	0.0	0.0	0.0	-0.0	18.7	18.7
6	522697.00	4894753.00	520.00	0	1000	97.2	97.2	0.0	0.0	75.5	6.1	-0.9	0.0	0.0	0.0	0.0	-0.0	16.5	16.5
7	522697.00	4894753.00	520.00	0	2000	94.3	94.3	0.0	0.0	75.5	16.2	-0.9	0.0	0.0	0.0	0.0	-0.0	3.5	3.5
8	522697.00	4894753.00	520.00	0	4000	87.1	87.1	0.0	0.0	75.5	55.0	-0.9	0.0	0.0	0.0	0.0	-0.0	-42.5	-42.5
9	522697.00	4894753.00	520.00	0	8000	68.7	68.7	0.0	0.0	75.5	196.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-202.1	-202.1

Point Source, ISO 9613, Name: "T2", ID: "T2"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	523810.00	4895004.00	524.73	0	32	78.4	78.4	0.0	0.0	66.7	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	14.7	14.7
2	523810.00	4895004.00	524.73	0	63	87.7	87.7	0.0	0.0	66.7	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	23.9	23.9
3	523810.00	4895004.00	524.73	0	125	92.3	92.3	0.0	0.0	66.7	0.3	1.6	0.0	0.0	0.0	0.0	-0.0	23.8	23.8
4	523810.00	4895004.00	524.73	0	250	93.4	93.4	0.0	0.0	66.7	0.6	0.1	0.0	0.0	0.0	0.0	-0.0	26.0	26.0
5	523810.00	4895004.00	524.73	0	500	95.1	95.1	0.0	0.0	66.7	1.2	-0.9	0.0	0.0	0.0	0.0	-0.0	28.1	28.1
6	523810.00	4895004.00	524.73	0	1000	95.0	95.0	0.0	0.0	66.7	2.2	-0.9	0.0	0.0	0.0	0.0	-0.0	27.0	27.0
7	523810.00	4895004.00	524.73	0	2000	91.3	91.3	0.0	0.0	66.7	5.9	-0.9	0.0	0.0	0.0	0.0	-0.0	19.6	19.6
8	523810.00	4895004.00	524.73	0	4000	84.6	84.6	0.0	0.0	66.7	19.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-1.1	-1.1
9	523810.00	4895004.00	524.73	0	8000	66.0	66.0	0.0	0.0	66.7	71.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-71.0	-71.0

Point Source, ISO 9613, Name: "T3", ID: "T3"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	523031.00	4894158.00	532.82	0	32	80.1	80.1	0.0	0.0	74.4	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	8.6	8.6
2	523031.00	4894158.00	532.82	0	63	89.6	89.6	0.0	0.0	74.4	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	18.0	18.0
3	523031.00	4894158.00	532.82	0	125	94.3	94.3	0.0	0.0	74.4	0.6	1.8	0.0	0.0	0.0	0.0	-0.0	17.5	17.5
4	523031.00	4894158.00	532.82	0	250	95.2	95.2	0.0	0.0	74.4	1.6	0.1	0.0	0.0	0.0	0.0	-0.0	19.2	19.2
5	523031.00	4894158.00	532.82	0	500	96.5	96.5	0.0	0.0	74.4	2.9	-0.9	0.0	0.0	0.0	0.0	-0.0	20.1	20.1
6	523031.00	4894158.00	532.82	0	1000	97.2	97.2	0.0	0.0	74.4	5.4	-0.9	0.0	0.0	0.0	0.0	-0.0	18.2	18.2
7	523031.00	4894158.00	532.82	0	2000	94.3	94.3	0.0	0.0	74.4	14.4	-0.9	0.0	0.0	0.0	0.0	-0.0	6.4	6.4
8	523031.00	4894158.00	532.82	0	4000	87.1	87.1	0.0	0.0	74.4	48.6	-0.9	0.0	0.0	0.0	0.0	-0.0	-35.1	-35.1
9	523031.00	4894158.00	532.82	0	8000	68.7	68.7	0.0	0.0	74.4	173.5	-0.9	0.0	0.0	0.0	0.0	-0.0	-178.4	-178.4

Point Source, ISO 9613, Name: "T4", ID: "T4"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	523425.00	4894086.00	540.02	0	32	80.1	80.1	0.0	0.0	72.5	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	10.6	10.6
2	523425.00	4894086.00	540.02	0	63	89.6	89.6	0.0	0.0	72.5	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	20.0	20.0
3	523425.00	4894086.00	540.02	0	125	94.3	94.3	0.0	0.0	72.5	0.5	1.8	0.0	0.0	0.0	0.0	-0.0	19.6	19.6
4	523425.00	4894086.00	540.02	0	250	95.2	95.2	0.0	0.0	72.5	1.2	0.1	0.0	0.0	0.0	0.0	-0.0	21.4	21.4
5	523425.00	4894086.00	540.02	0	500	96.5	96.5	0.0	0.0	72.5	2.3	-0.9	0.0	0.0	0.0	0.0	-0.0	22.7	22.7
6	523425.00	4894086.00	540.02	0	1000	97.2	97.2	0.0	0.0	72.5	4.3	-0.9	0.0	0.0	0.0	0.0	-0.0	21.3	21.3
7	523425.00	4894086.00	540.02	0	2000	94.3	94.3	0.0	0.0	72.5	11.4	-0.9	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
8	523425.00	4894086.00	540.02	0	4000	87.1	87.1	0.0	0.0	72.5	38.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-23.2	-23.2
9	523425.00	4894086.00	540.02	0	8000	68.7	68.7	0.0	0.0	72.5	138.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-141.1	-141.1

Point Source, ISO 9613, Name: "T5", ID: "T5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	523815.00	4894179.00	524.81	0	32	80.1	80.1	0.0	0.0	69.4	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	13.7	13.7

Point Source, ISO 9613, Name: "T5", ID: "T5"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
2	523815.00	4894179.00	524.81	0	63	89.6	89.6	0.0	0.0	69.4	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	23.1	23.1
3	523815.00	4894179.00	524.81	0	125	94.3	94.3	0.0	0.0	69.4	0.3	1.7	0.0	0.0	0.0	0.0	-0.0	22.9	22.9
4	523815.00	4894179.00	524.81	0	250	95.2	95.2	0.0	0.0	69.4	0.9	0.1	0.0	0.0	0.0	0.0	-0.0	24.9	24.9
5	523815.00	4894179.00	524.81	0	500	96.5	96.5	0.0	0.0	69.4	1.6	-0.9	0.0	0.0	0.0	0.0	-0.0	26.4	26.4
6	523815.00	4894179.00	524.81	0	1000	97.2	97.2	0.0	0.0	69.4	3.0	-0.9	0.0	0.0	0.0	0.0	-0.0	25.7	25.7
7	523815.00	4894179.00	524.81	0	2000	94.3	94.3	0.0	0.0	69.4	8.0	-0.9	0.0	0.0	0.0	0.0	-0.0	17.8	17.8
8	523815.00	4894179.00	524.81	0	4000	87.1	87.1	0.0	0.0	69.4	27.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-8.5	-8.5
9	523815.00	4894179.00	524.81	0	8000	68.7	68.7	0.0	0.0	69.4	96.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-96.6	-96.6

Point Source, ISO 9613, Name: "T6", ID: "T6"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	524812.00	4894414.00	528.53	0	32	77.5	77.5	0.0	0.0	66.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	14.2	14.2
2	524812.00	4894414.00	528.53	0	63	86.8	86.8	0.0	0.0	66.3	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	23.5	23.5
3	524812.00	4894414.00	528.53	0	125	91.3	91.3	0.0	0.0	66.3	0.2	1.5	0.0	0.0	0.0	0.0	-0.0	23.3	23.3
4	524812.00	4894414.00	528.53	0	250	92.5	92.5	0.0	0.0	66.3	0.6	0.1	0.0	0.0	0.0	0.0	-0.0	25.6	25.6
5	524812.00	4894414.00	528.53	0	500	94.3	94.3	0.0	0.0	66.3	1.1	-0.9	0.0	0.0	0.0	0.0	-0.0	27.8	27.8
6	524812.00	4894414.00	528.53	0	1000	93.8	93.8	0.0	0.0	66.3	2.1	-0.9	0.0	0.0	0.0	0.0	-0.0	26.3	26.3
7	524812.00	4894414.00	528.53	0	2000	90.0	90.0	0.0	0.0	66.3	5.6	-0.9	0.0	0.0	0.0	0.0	-0.0	19.0	19.0
8	524812.00	4894414.00	528.53	0	4000	83.6	83.6	0.0	0.0	66.3	19.0	-0.9	0.0	0.0	0.0	0.0	-0.0	-0.8	-0.8
9	524812.00	4894414.00	528.53	0	8000	64.9	64.9	0.0	0.0	66.3	67.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-68.3	-68.3

Point Source, ISO 9613, Name: "T7", ID: "T7"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	525170.00	4894597.00	534.40	0	32	80.1	80.1	0.0	0.0	69.3	0.0	-3.0	0.0	0.0	0.0	0.0	-0.0	13.8	13.8
2	525170.00	4894597.00	534.40	0	63	89.6	89.6	0.0	0.0	69.3	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	23.2	23.2
3	525170.00	4894597.00	534.40	0	125	94.3	94.3	0.0	0.0	69.3	0.3	1.7	0.0	0.0	0.0	0.0	-0.0	23.0	23.0
4	525170.00	4894597.00	534.40	0	250	95.2	95.2	0.0	0.0	69.3	0.9	0.1	0.0	0.0	0.0	0.0	-0.0	25.0	25.0
5	525170.00	4894597.00	534.40	0	500	96.5	96.5	0.0	0.0	69.3	1.6	-0.9	0.0	0.0	0.0	0.0	-0.0	26.5	26.5
6	525170.00	4894597.00	534.40	0	1000	97.2	97.2	0.0	0.0	69.3	3.0	-0.9	0.0	0.0	0.0	0.0	-0.0	25.8	25.8
7	525170.00	4894597.00	534.40	0	2000	94.3	94.3	0.0	0.0	69.3	8.0	-0.9	0.0	0.0	0.0	0.0	-0.0	17.9	17.9
8	525170.00	4894597.00	534.40	0	4000	87.1	87.1	0.0	0.0	69.3	27.0	-0.9	0.0	0.0	0.0	0.0	-0.0	-8.3	-8.3
9	525170.00	4894597.00	534.40	0	8000	68.7	68.7	0.0	0.0	69.3	96.1	-0.9	0.0	0.0	0.0	0.0	-0.0	-95.8	-95.8

Point Source, ISO 9613, Name: "T8", ID: "T8"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	525783.00	4894560.00	544.91	0	32	80.1	80.1	0.0	0.0	74.1	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	9.0	9.0
2	525783.00	4894560.00	544.91	0	63	89.6	89.6	0.0	0.0	74.1	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	18.3	18.3
3	525783.00	4894560.00	544.91	0	125	94.3	94.3	0.0	0.0	74.1	0.6	1.8	0.0	0.0	0.0	0.0	-0.0	17.8	17.8
4	525783.00	4894560.00	544.91	0	250	95.2	95.2	0.0	0.0	74.1	1.5	0.1	0.0	0.0	0.0	0.0	-0.0	19.5	19.5
5	525783.00	4894560.00	544.91	0	500	96.5	96.5	0.0	0.0	74.1	2.8	-0.9	0.0	0.0	0.0	0.0	-0.0	20.5	20.5
6	525783.00	4894560.00	544.91	0	1000	97.2	97.2	0.0	0.0	74.1	5.2	-0.9	0.0	0.0	0.0	0.0	-0.0	18.8	18.8
7	525783.00	4894560.00	544.91	0	2000	94.3	94.3	0.0	0.0	74.1	13.8	-0.9	0.0	0.0	0.0	0.0	-0.0	7.3	7.3
8	525783.00	4894560.00	544.91	0	4000	87.1	87.1	0.0	0.0	74.1	46.9	-0.9	0.0	0.0	0.0	0.0	-0.0	-33.0	-33.0
9	525783.00	4894560.00	544.91	0	8000	68.7	68.7	0.0	0.0	74.1	167.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-171.7	-171.7

Point Source, ISO 9613, Name: "T10", ID: "T10"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	522761.00	4892274.00	525.71	0	32	80.1	80.1	0.0	0.0	80.5	0.1	-3.4	0.0	0.0	0.0	0.0	-0.0	2.9	2.9
2	522761.00	4892274.00	525.71	0	63	89.6	89.6	0.0	0.0	80.5	0.4	-3.4	0.0	0.0	0.0	0.0	-0.0	12.2	12.2
3	522761.00	4892274.00	525.71	0	125	94.3	94.3	0.0	0.0	80.5	1.2	1.7	0.0	0.0	0.0	0.0	-0.0	10.9	10.9
4	522761.00	4892274.00	525.71	0	250	95.2	95.2	0.0	0.0	80.5	3.1	-0.1	0.0	0.0	0.0	0.0	-0.0	11.6	11.6
5	522761.00	4892274.00	525.71	0	500	96.5	96.5	0.0	0.0	80.5	5.8	-1.0	0.0	0.0	0.0	0.0	-0.0	11.3	11.3
6	522761.00	4892274.00	525.71	0	1000	97.2	97.2	0.0	0.0	80.5	10.9	-1.0	0.0	0.0	0.0	0.0	-0.0	6.8	6.8
7	522761.00	4892274.00	525.71	0	2000	94.3	94.3	0.0	0.0	80.5	28.9	-1.0	0.0	0.0	0.0	0.0	-0.0	-14.0	-14.0
8	522761.00	4892274.00	525.71	0	4000	87.1	87.1	0.0	0.0	80.5	97.9	-1.0	0.0	0.0	0.0	0.0	-0.0	-90.2	-90.2
9	522761.00	4892274.00	525.71	0	8000	68.7	68.7	0.0	0.0	80.5	349.0	-1.0	0.0	0.0	0.0	0.0	-0.0	-359.8	-359.8

Point Source, ISO 9613, Name: "T11", ID: "T11"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	525698.00	4893320.00	544.00	0	32	80.1	80.1	0.0	0.0	76.9	0.1	-3.0	0.0	0.0	0.0	0.0	-0.0	6.1	6.1
2	525698.00	4893320.00	544.00	0	63	89.6	89.6	0.0	0.0	76.9	0.2	-3.0	0.0	0.0	0.0	0.0	-0.0	15.4	15.4
3	525698.00	4893320.00	544.00	0	125	94.3	94.3	0.0	0.0	76.9	0.8	1.8	0.0	0.0	0.0	0.0	-0.0	14.8	14.8
4	525698.00	4893320.00	544.00	0	250	95.2	95.2	0.0	0.0	76.9	2.1	0.1	0.0	0.0	0.0	0.0	-0.0	16.1	16.1
5	525698.00	4893320.00	544.00	0	500	96.5	96.5	0.0	0.0	76.9	3.8	-0.9	0.0	0.0	0.0	0.0	-0.0	16.7	16.7
6	525698.00	4893320.00	544.00	0	1000	97.2	97.2	0.0	0.0	76.9	7.2	-0.9	0.0	0.0	0.0	0.0	-0.0	13.9	13.9
7	525698.00	4893320.00	544.00	0	2000	94.3	94.3	0.0	0.0	76.9	19.1	-0.9	0.0	0.0	0.0	0.0	-0.0	-0.8	-0.8
8	525698.00	4893320.00	544.00	0	4000	87.1	87.1	0.0	0.0	76.9	64.8	-0.9	0.0	0.0	0.0	0.0	-0.0	-53.7	-53.7
9	525698.00	4893320.00	544.00	0	8000	68.7	68.7	0.0	0.0	76.9	231.2	-0.9	0.0	0.0	0.0	0.0	-0.0	-238.5	-238.5

Point Source, ISO 9613, Name: "T12", ID: "T12"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	527137.00	4897555.00	542.34	0	32	80.1	80.1	0.0	0.0	82.8	0.1	-4.1	0.0	0.0	0.0	0.0	-0.0	1.2	1.2
2	527137.00	4897555.00	542.34	0	63	89.6	89.6	0.0	0.0	82.8	0.5	-4.1	0.0	0.0	0.0	0.0	-0.0	10.3	10.3
3	527137.00	4897555.00	542.34	0	125	94.3	94.3	0.0	0.0	82.8	1.6	1.5	0.0	0.0	0.0	0.0	-0.0	8.4	8.4
4	527137.00	4897555.00	542.34	0	250	95.2	95.2	0.0	0.0	82.8	4.1	-0.2	0.0	0.0	0.0	0.0	-0.0	8.5	8.5
5	527137.00	4897555.00	542.34	0	500	96.5	96.5	0.0	0.0	82.8	7.5	-1.2	0.0	0.0	0.0	0.0	-0.0	7.3	7.3
6	527137.00	4897555.00	542.34	0	1000	97.2	97.2	0.0	0.0	82.8	14.3	-1.2	0.0	0.0	0.0	0.0	-0.0	1.3	1.3
7	527137.00	4897555.00	542.34	0	2000	94.3	94.3	0.0	0.0	82.8	37.8	-1.2	0.0	0.0	0.0	0.0	-0.0	-25.2	-25.2
8	527137.00	4897555.00	542.34	0	4000	87.1	87.1	0.0	0.0	82.8	128.2	-1.2	0.0	0.0	0.0	0.0	-0.0	-122.8	-122.8
9	527137.00	4897555.00	542.34	0	8000	68.7	68.7	0.0	0.0	82.8	457.3	-1.2	0.0	0.0	0.0	0.0	-0.0	-470.3	-470.3

Point Source, ISO 9613, Name: "T13", ID: "T13"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	528474.00	4893041.00	560.00	0	32	80.1	80.1	0.0	0.0	84.0	0.1	-4.3	0.0	0.0	0.0	0.0	-0.0	0.3	0.3
2	528474.00	4893041.00	560.00	0	63	89.6	89.6	0.0	0.0	84.0	0.5	-4.3	0.0	0.0	0.0	0.0	-0.0	9.4	9.4
3	528474.00	4893041.00	560.00	0	125	94.3	94.3	0.0	0.0	84.0	1.8	1.4	0.0	0.0	0.0	0.0	-0.0	7.1	7.1
4	528474.00	4893041.00	560.00	0	250	95.2	95.2	0.0	0.0	84.0	4.6	-0.3	0.0	0.0	0.0	0.0	-0.0	6.9	6.9
5	528474.00	4893041.00	560.00	0	500	96.5	96.5	0.0	0.0	84.0	8.6	-1.3	0.0	0.0	0.0	0.0	-0.0	5.2	5.2
6	528474.00	4893041.00	560.00	0	1000	97.2	97.2	0.0	0.0	84.0	16.3	-1.3	0.0	0.0	0.0	0.0	-0.0	-1.8	-1.8
7	528474.00	4893041.00	560.00	0	2000	94.3	94.3	0.0	0.0	84.0	43.1	-1.3	0.0	0.0	0.0	0.0	-0.0	-31.5	-31.5
8	528474.00	4893041.00	560.00	0	4000	87.1	87.1	0.0	0.0	84.0	146.1	-1.3	0.0	0.0	0.0	0.0	-0.0	-141.7	-141.7
9	528474.00	4893041.00	560.00	0	8000	68.7	68.7	0.0	0.0	84.0	521.0	-1.3	0.0	0.0	0.0	0.0	-0.0	-535.0	-535.0

Point Source, ISO 9613, Name: "T14", ID: "T14"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	527940.00	4897664.00	539.88	0	32	80.1	80.1	0.0	0.0	84.2	0.2	-4.3	0.0	0.0	0.0	0.0	-0.0	0.1	0.1
2	527940.00	4897664.00	539.88	0	63	89.6	89.6	0.0	0.0	84.2	0.6	-4.3	0.0	0.0	0.0	0.0	-0.0	9.2	9.2
3	527940.00	4897664.00	539.88	0	125	94.3	94.3	0.0	0.0	84.2	1.9	1.4	0.0	0.0	0.0	0.0	-0.0	6.8	6.8
4	527940.00	4897664.00	539.88	0	250	95.2	95.2	0.0	0.0	84.2	4.8	-0.3	0.0	0.0	0.0	0.0	-0.0	6.5	6.5
5	527940.00	4897664.00	539.88	0	500	96.5	96.5	0.0	0.0	84.2	8.8	-1.3	0.0	0.0	0.0	0.0	-0.0	4.7	4.7
6	527940.00	4897664.00	539.88	0	1000	97.2	97.2	0.0	0.0	84.2	16.8	-1.3	0.0	0.0	0.0	0.0	-0.0	-2.5	-2.5
7	527940.00	4897664.00	539.88	0	2000	94.3	94.3	0.0	0.0	84.2	44.3	-1.3	0.0	0.0	0.0	0.0	-0.0	-32.9	-32.9
8	527940.00	4897664.00	539.88	0	4000	87.1	87.1	0.0	0.0	84.2	150.2	-1.3	0.0	0.0	0.0	0.0	-0.0	-146.0	-146.0
9	527940.00	4897664.00	539.88	0	8000	68.7	68.7	0.0	0.0	84.2	535.7	-1.3	0.0	0.0	0.0	0.0	-0.0	-549.9	-549.9

Point Source, ISO 9613, Name: "T15", ID: "T15"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	527547.00	4897779.00	544.61	0	32	80.1	80.1	0.0	0.0	83.8	0.1	-4.3	0.0	0.0	0.0	0.0	-0.0	0.4	0.4
2	527547.00	4897779.00	544.61	0	63	89.6	89.6	0.0	0.0	83.8	0.5	-4.3	0.0	0.0	0.0	0.0	-0.0	9.5	9.5
3	527547.00	4897779.00	544.61	0	125	94.3	94.3	0.0	0.0	83.8	1.8	1.4	0.0	0.0	0.0	0.0	-0.0	7.3	7.3
4	527547.00	4897779.00	544.61	0	250	95.2	95.2	0.0	0.0	83.8	4.5	-0.3	0.0	0.0	0.0	0.0	-0.0	7.2	7.2
5	527547.00	4897779.00	544.61	0	500	96.5	96.5	0.0	0.0	83.8	8.4	-1.3	0.0	0.0	0.0	0.0	-0.0	5.6	5.6
6	527547.00	4897779.00	544.61	0	1000	97.2	97.2	0.0	0.0	83.8	16.0	-1.3	0.0	0.0	0.0	0.0	-0.0	-1.3	-1.3
7	527547.00	4897779.00	544.61	0	2000	94.3	94.3	0.0	0.0	83.8	42.2	-1.3	0.0	0.0	0.0	0.0	-0.0	-30.4	-30.4
8	527547.00	4897779.00	544.61	0	4000	87.1	87.1	0.0	0.0	83.8	143.0	-1.3	0.0	0.0	0.0	0.0	-0.0	-138.4	-138.4
9	527547.00	4897779.00	544.61	0	8000	68.7	68.7	0.0	0.0	83.8	509.9	-1.3	0.0	0.0	0.0	0.0	-0.0	-523.8	-523.8

Point Source, ISO 9613, Name: "T16", ID: "T16"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	527680.00	4893745.00	555.03	0	32	80.1	80.1	0.0	0.0	81.8	0.1	-3.8	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
2	527680.00	4893745.00	555.03	0	63	89.6	89.6	0.0	0.0	81.8	0.4	-3.8	0.0	0.0	0.0	0.0	-0.0	11.2	11.2
3	527680.00	4893745.00	555.03	0	125	94.3	94.3	0.0	0.0	81.8	1.4	1.5	0.0	0.0	0.0	0.0	-0.0	9.5	9.5
4	527680.00	4893745.00	555.03	0	250	95.2	95.2	0.0	0.0	81.8	3.6	-0.2	0.0	0.0	0.0	0.0	-0.0	10.0	10.0
5	527680.00	4893745.00	555.03	0	500	96.5	96.5	0.0	0.0	81.8	6.7	-1.1	0.0	0.0	0.0	0.0	-0.0	9.2	9.2
6	527680.00	4893745.00	555.03	0	1000	97.2	97.2	0.0	0.0	81.8	12.7	-1.1	0.0	0.0	0.0	0.0	-0.0	3.9	3.9
7	527680.00	4893745.00	555.03	0	2000	94.3	94.3	0.0	0.0	81.8	33.5	-1.1	0.0	0.0	0.0	0.0	-0.0	-19.9	-19.9
8	527680.00	4893745.00	555.03	0	4000	87.1	87.1	0.0	0.0	81.8	113.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-107.2	-107.2
9	527680.00	4893745.00	555.03	0	8000	68.7	68.7	0.0	0.0	81.8	405.3	-1.1	0.0	0.0	0.0	0.0	-0.0	-417.3	-417.3

Point Source, ISO 9613, Name: "T17", ID: "T17"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	527506.00	4893375.00	556.00	0	32	80.1	80.1	0.0	0.0	81.7	0.1	-3.8	0.0	0.0	0.0	0.0	-0.0	2.0	2.0
2	527506.00	4893375.00	556.00	0	63	89.6	89.6	0.0	0.0	81.7	0.4	-3.8	0.0	0.0	0.0	0.0	-0.0	11.2	11.2
3	527506.00	4893375.00	556.00	0	125	94.3	94.3	0.0	0.0	81.7	1.4	1.6	0.0	0.0	0.0	0.0	-0.0	9.6	9.6
4	527506.00	4893375.00	556.00	0	250	95.2	95.2	0.0	0.0	81.7	3.6	-0.2	0.0	0.0	0.0	0.0	-0.0	10.1	10.1
5	527506.00	4893375.00	556.00	0	500	96.5	96.5	0.0	0.0	81.7	6.6	-1.1	0.0	0.0	0.0	0.0	-0.0	9.3	9.3
6	527506.00	4893375.00	556.00	0	1000	97.2	97.2	0.0	0.0	81.7	12.6	-1.1	0.0	0.0	0.0	0.0	-0.0	4.0	4.0
7	527506.00	4893375.00	556.00	0	2000	94.3	94.3	0.0	0.0	81.7	33.2	-1.1	0.0	0.0	0.0	0.0	-0.0	-19.5	-19.5
8	527506.00	4893375.00	556.00	0	4000	87.1	87.1	0.0	0.0	81.7	112.6	-1.1	0.0	0.0	0.0	0.0	-0.0	-106.1	-106.1
9	527506.00	4893375.00	556.00	0	8000	68.7	68.7	0.0	0.0	81.7	401.7	-1.1	0.0	0.0	0.0	0.0	-0.0	-413.6	-413.6

Point Source, ISO 9613, Name: "Substation Transformer", ID: "ST"																			
Nr.	X	Y	Z	Refl.	Freq.	LxT	LxN	K0	Dc	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	LrT	LrN
	(m)	(m)	(m)		(Hz)	dB(A)	dB(A)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)	dB(A)
1	524146.19	4893780.26	458.74	0	32	-39.4	-39.4	0.0	0.0	71.3	0.0	-5.3	0.0	0.0	4.8	0.0	-0.0	-110.1	-110.1
2	524146.19	4893780.26	458.74	0	63	16.9	16.9	0.0	0.0	71.3	0.1	-5.3	0.0	0.0	4.8	0.0	-0.0	-53.9	-53.9
3	524146.19	4893780.26	458.74	0	125	69.9	69.9	0.0	0.0	71.3	0.4	4.0	0.0	0.0	0.7	0.0	-0.0	-6.6	-6.6
4	524146.19	4893780.26	458.74	0	250	60.4	60.4	0.0	0.0	71.3	1.1	2.0	0.0	0.0	2.7	0.0	-0.0	-16.7	-16.7
5	524146.19	4893780.26	458.74	0	500	61.7	61.7	0.0	0.0	71.3	2.0	-1.5	0.0	0.0	4.8	0.0	-0.0	-14.9	-14.9
6	524146.19	4893780.26	458.74	0	1000	62.5	62.5	0.0	0.0	71.3	3.8	-1.6	0.0	0.0	4.8	0.0	-0.0	-15.7	-15.7
7	524146.19	4893780.26	458.74	0	2000	54.8	54.8	0.0	0.0	71.3	10.0	-1.6	0.0	0.0	4.8	0.0	-0.0	-29.6	-29.6
8	524146.19	4893780.26	458.74	0	4000	48.9	48.9	0.0	0.0	71.3	33.8	-1.6	0.0	0.0	4.8	0.0	-0.0	-59.3	-59.3
9	524146.19	4893780.26	458.74	0	8000	33.1	33.1	0.0	0.0	71.3	120.6	-1.6	0.0	0.0	4.8	0.0	-0.0	-161.9	-161.9