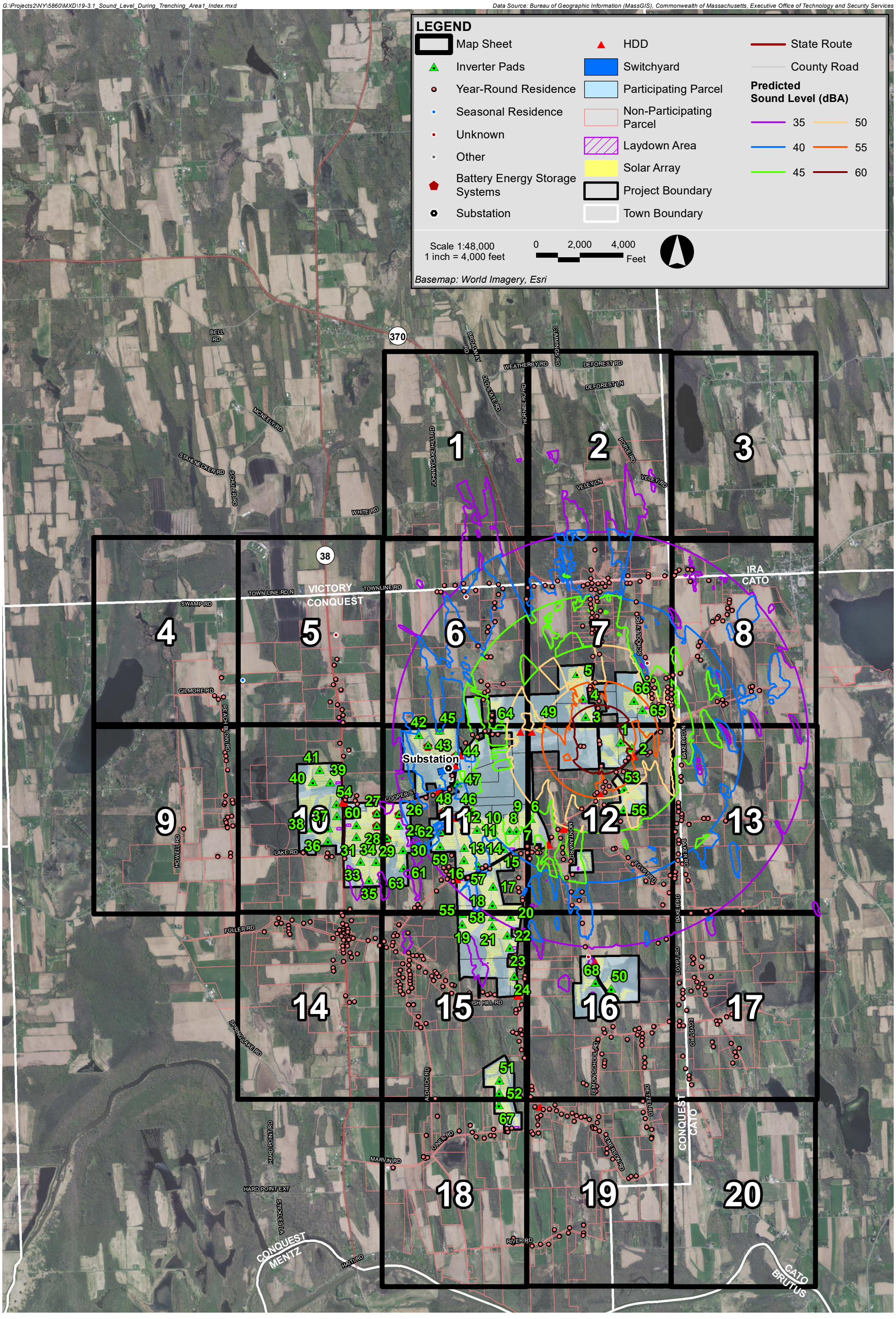
Appendix 19-3:

Construction Modeled Sound Levels

G:\Projects2\NY\5860\MXD\19-3.1_Sound_Level_During_Trenching_Area1_Index.mxd

Data Source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services



Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Index

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

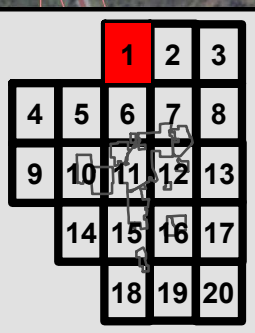

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Figure 19-3.1, Map 1 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 2 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 3 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

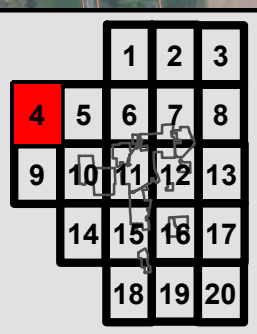

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Figure 19-3.1, Map 4 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

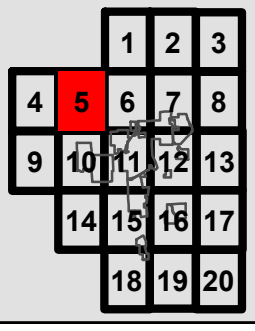

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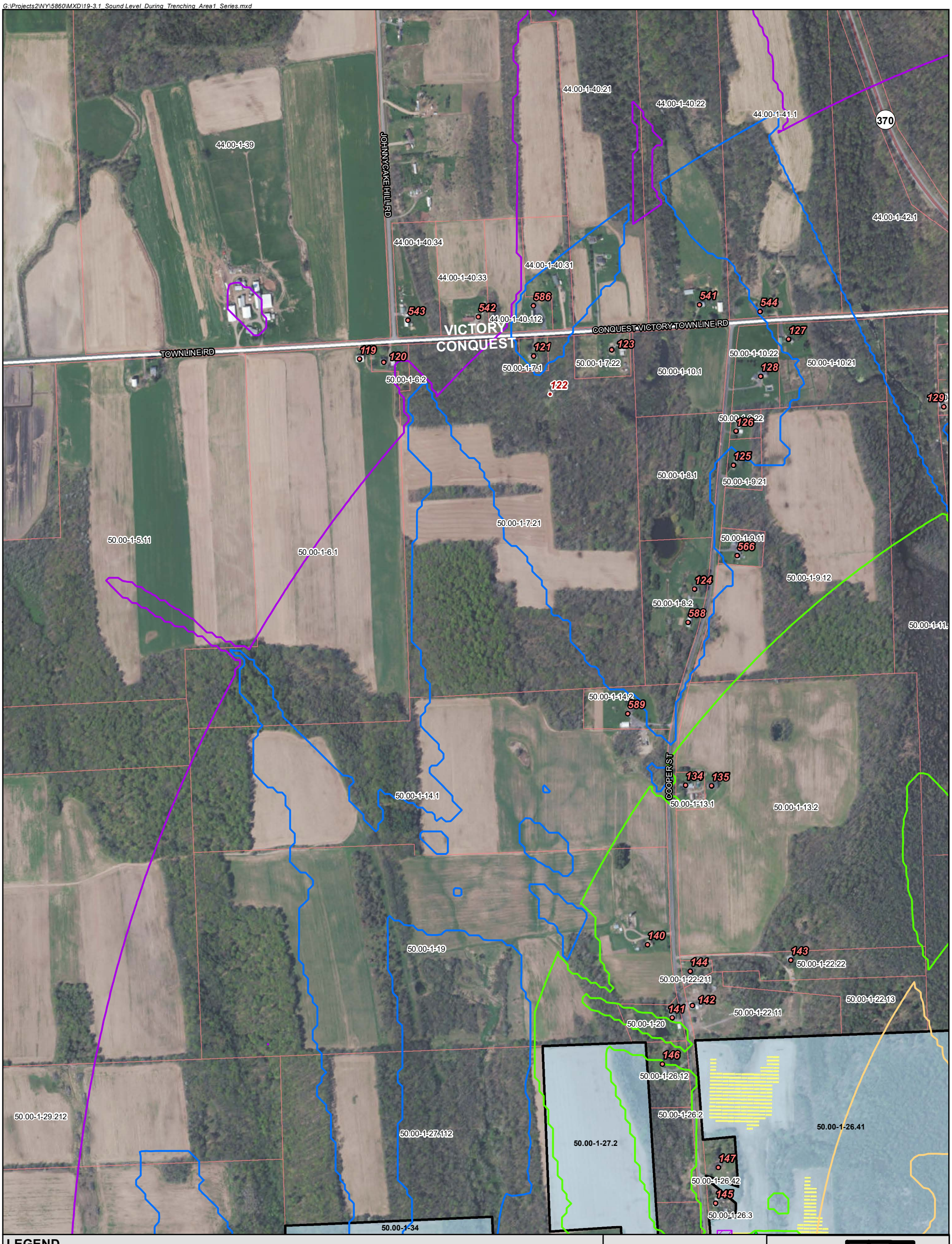
Figure 19-3.1, Map 5 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

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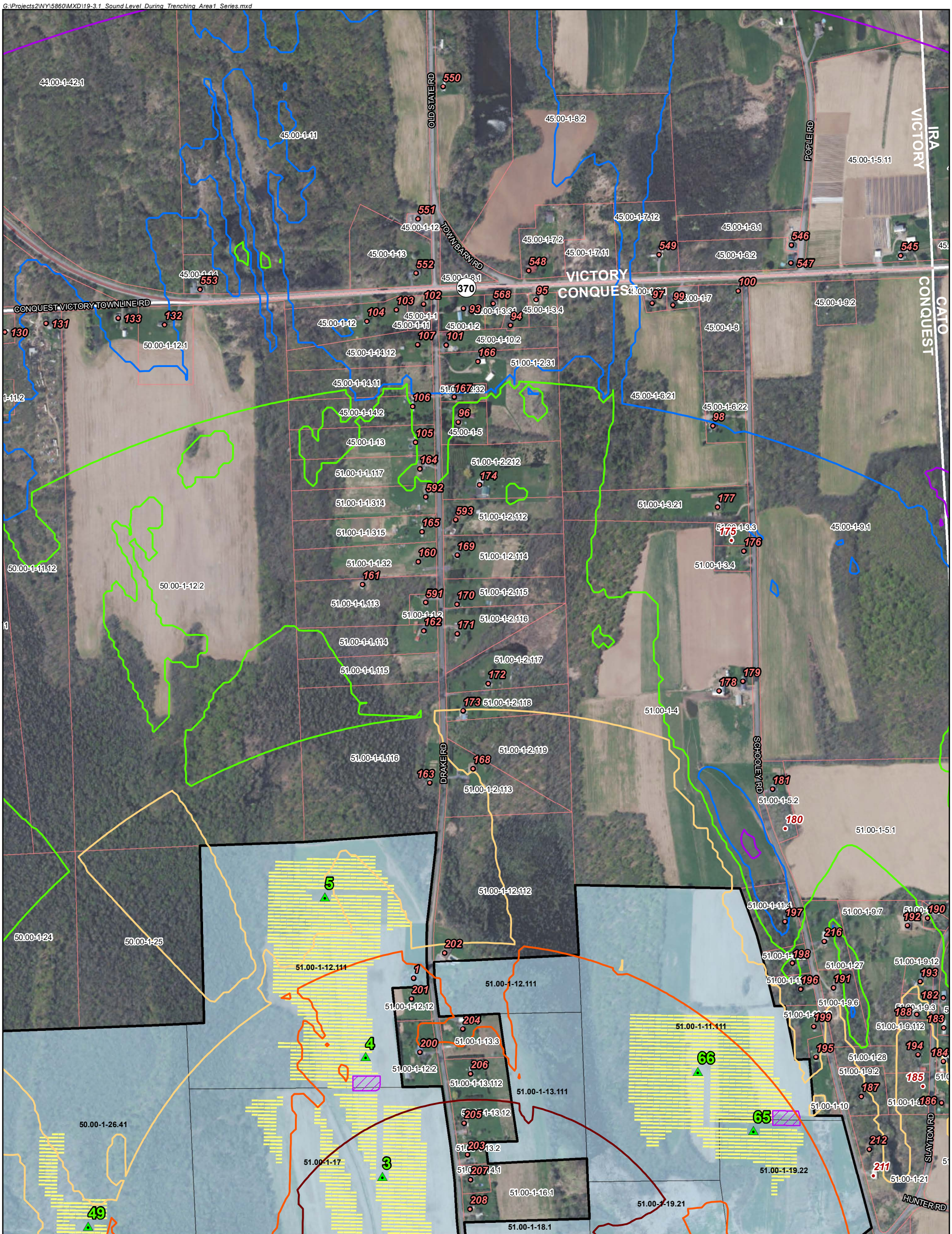
Figure 19-3.1, Map 6 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet
0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

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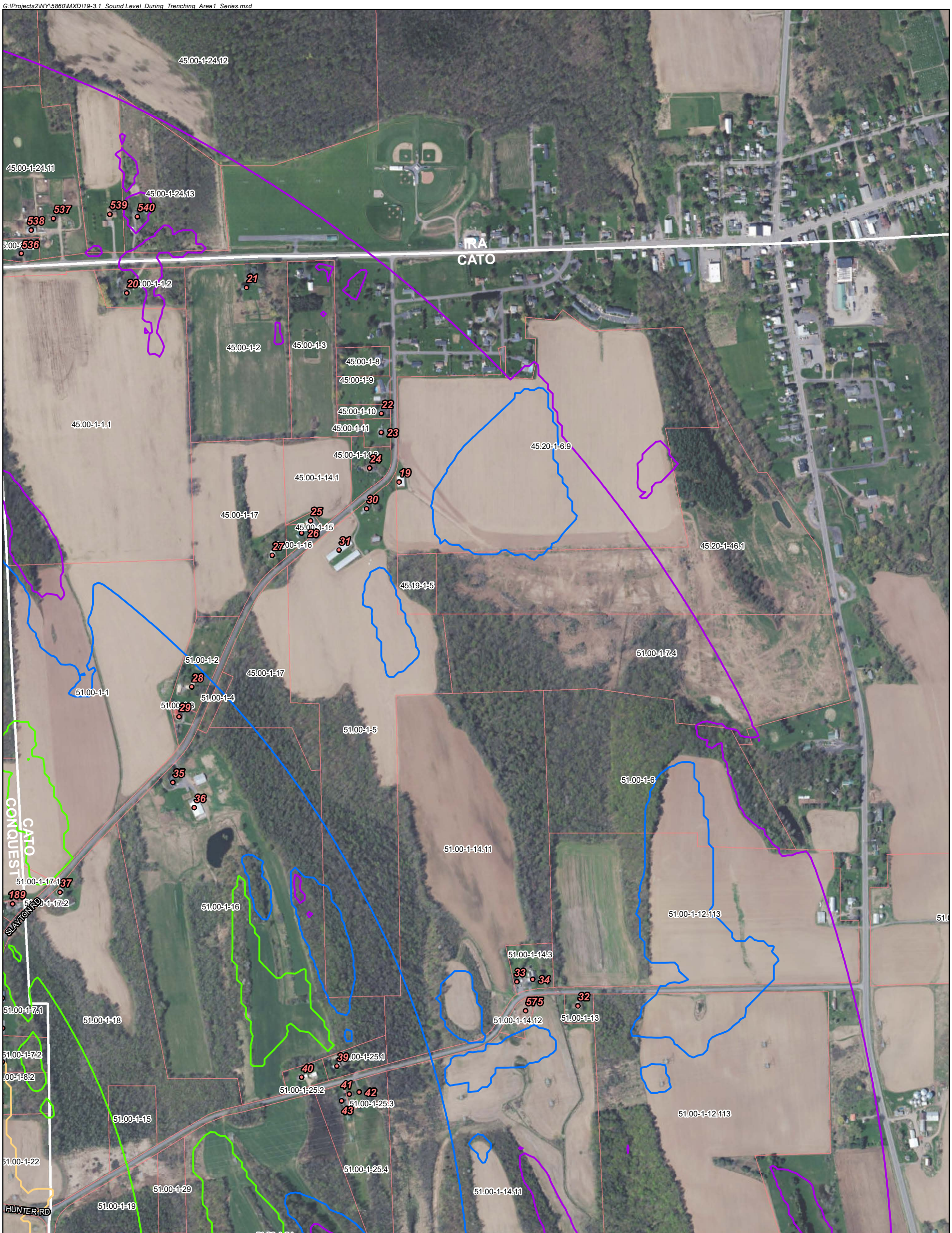
Figure 19-3.1, Map 7 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 8 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet
0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Garnet Energy Center Cayuga County, New York

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Figure 19-3.1, Map 9 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

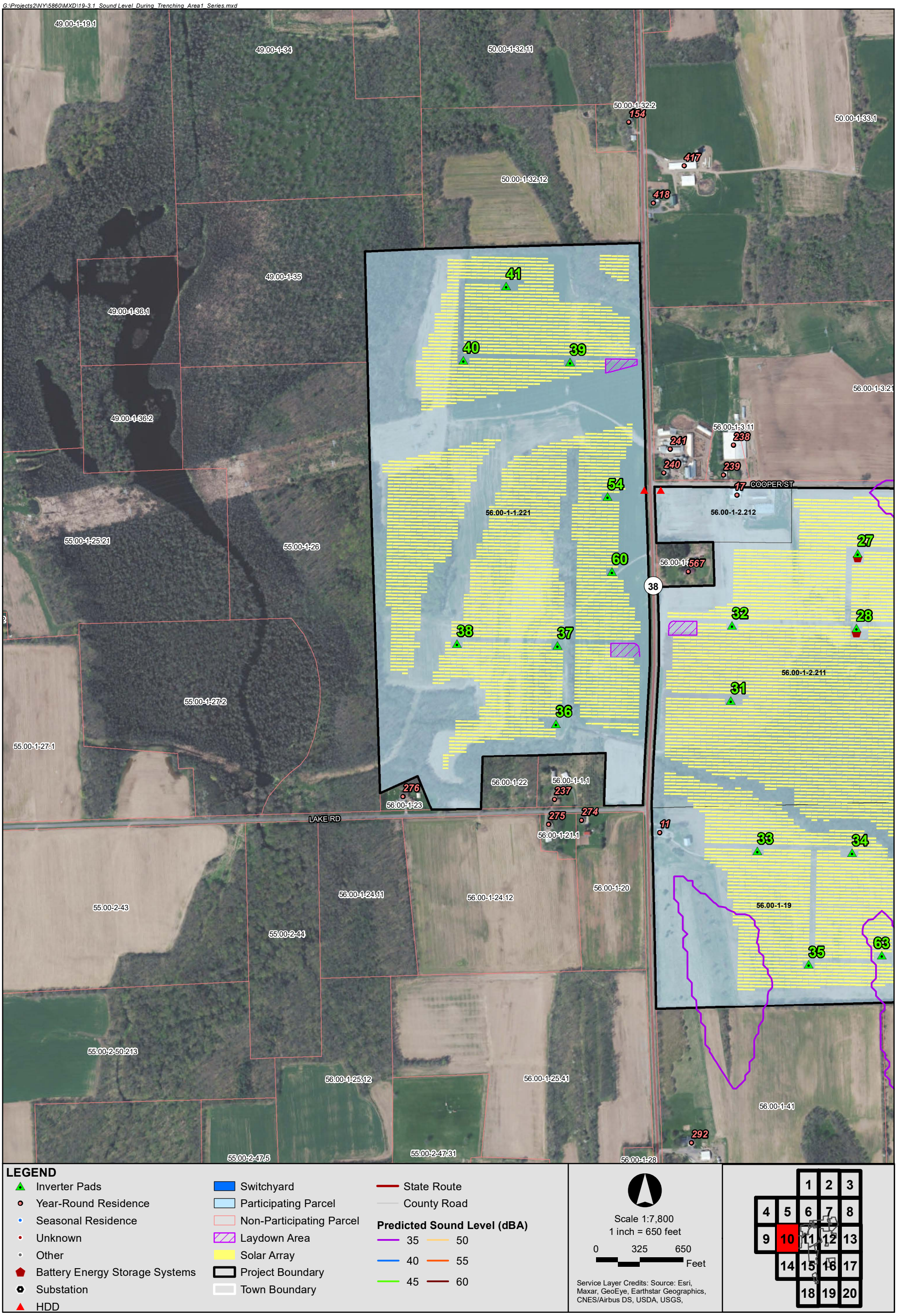

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Figure 19-3.1, Map 10 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

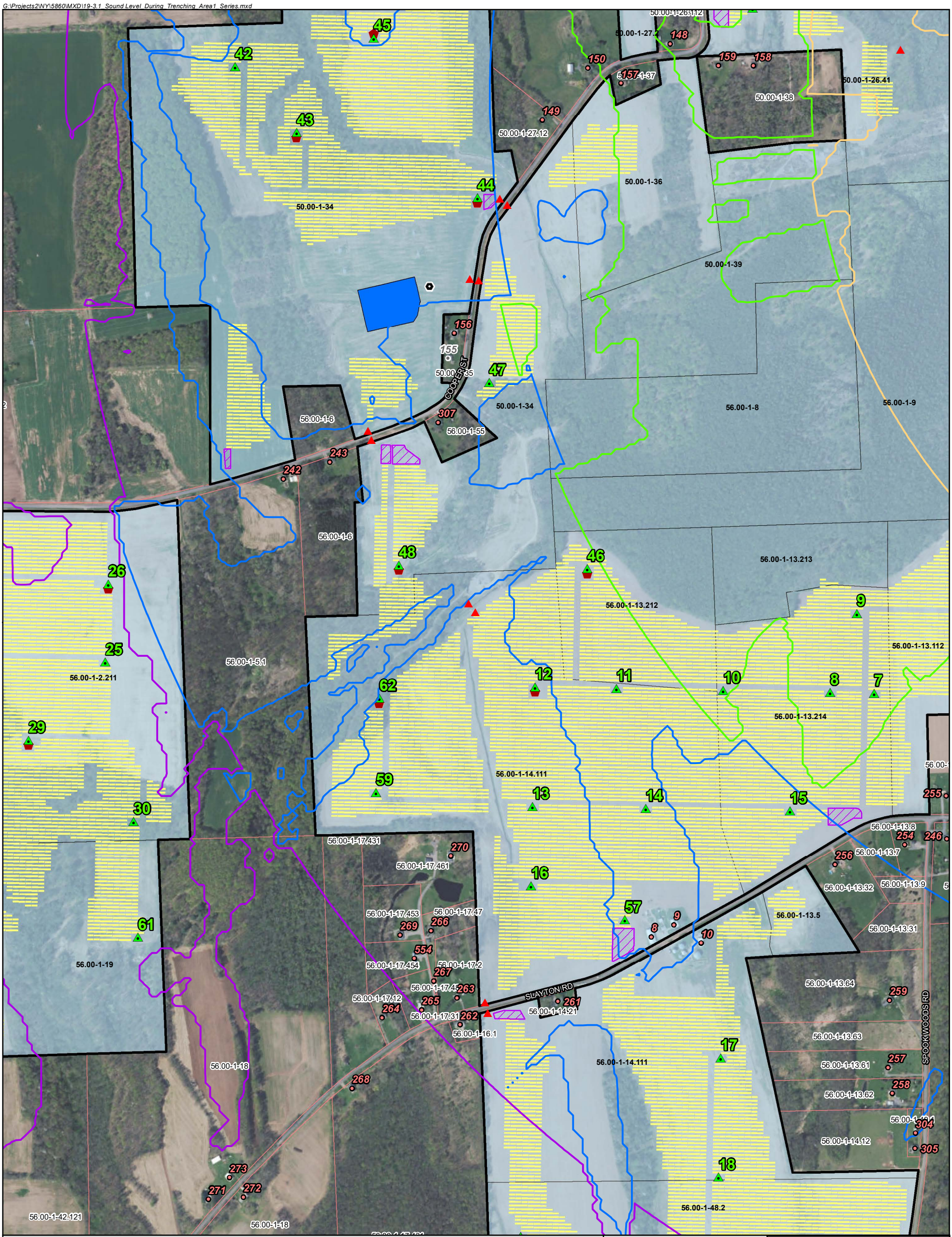

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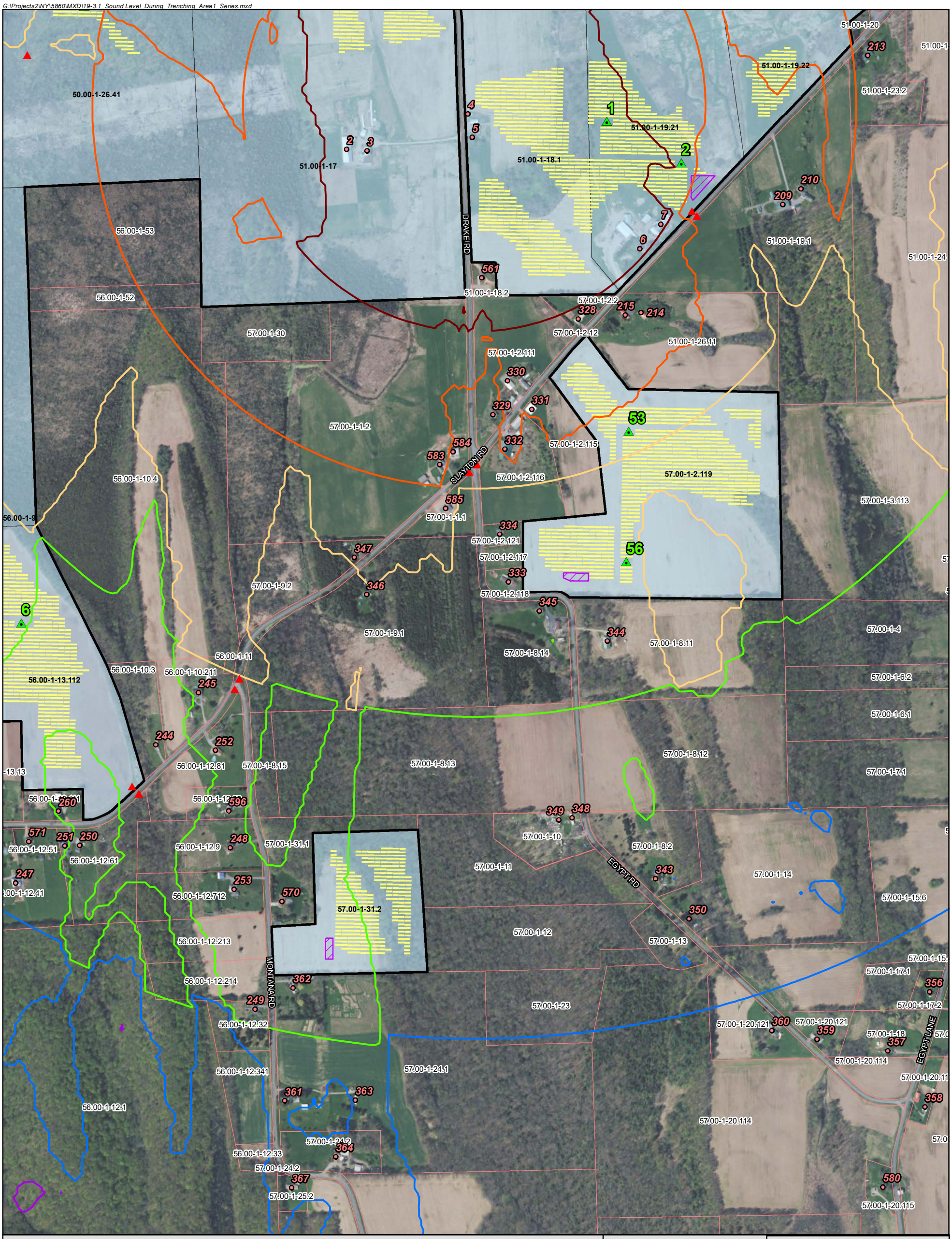
Figure 19-3.1, Map 11 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet
0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

Garnet Energy Center **Cayuga County, New York**

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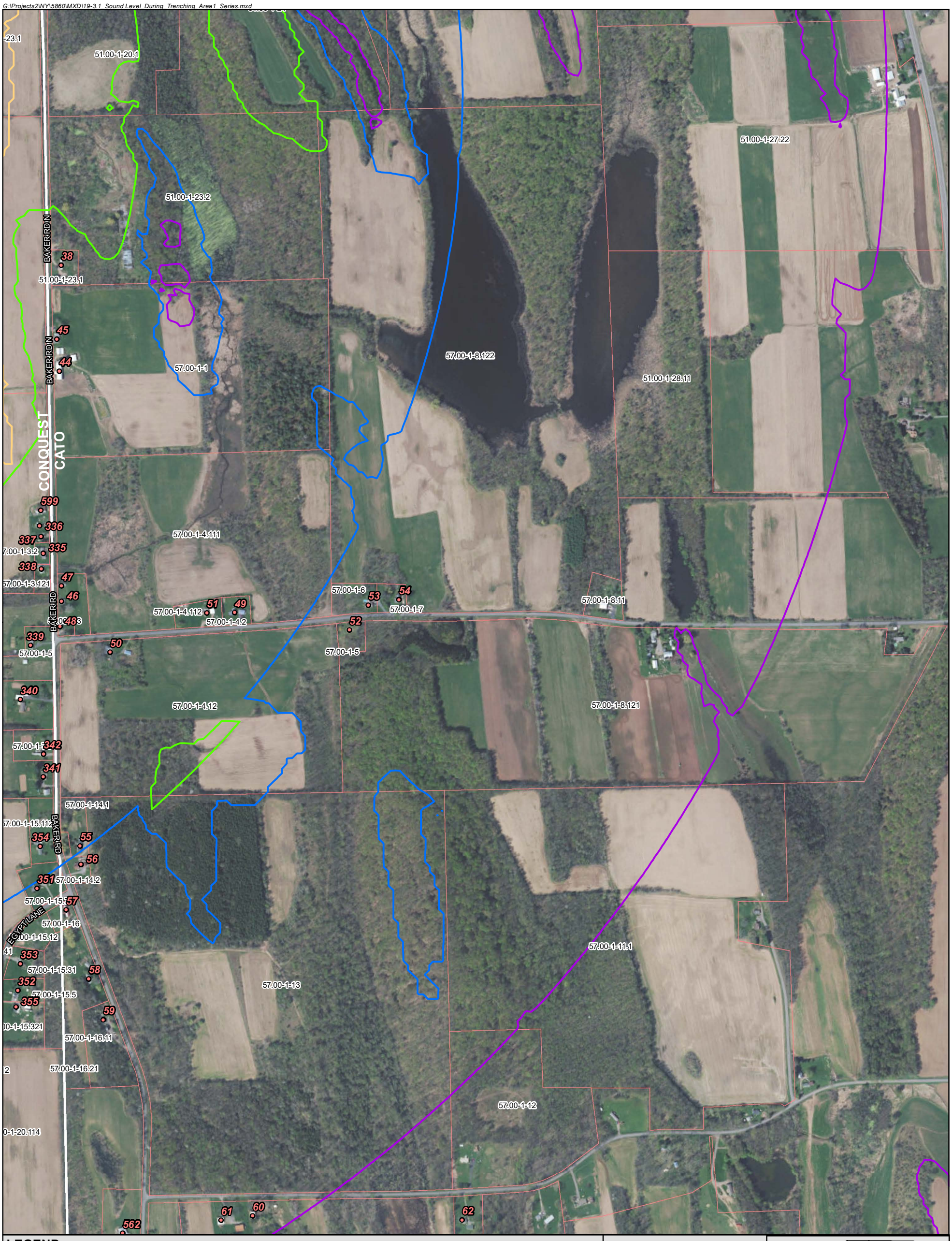
Figure 19-3.1, Map 12 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 13 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

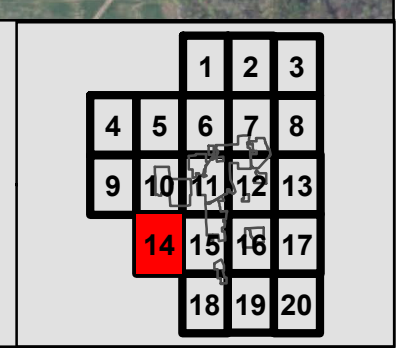
Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,



Garnet Energy Center **Cayuga County, New York**

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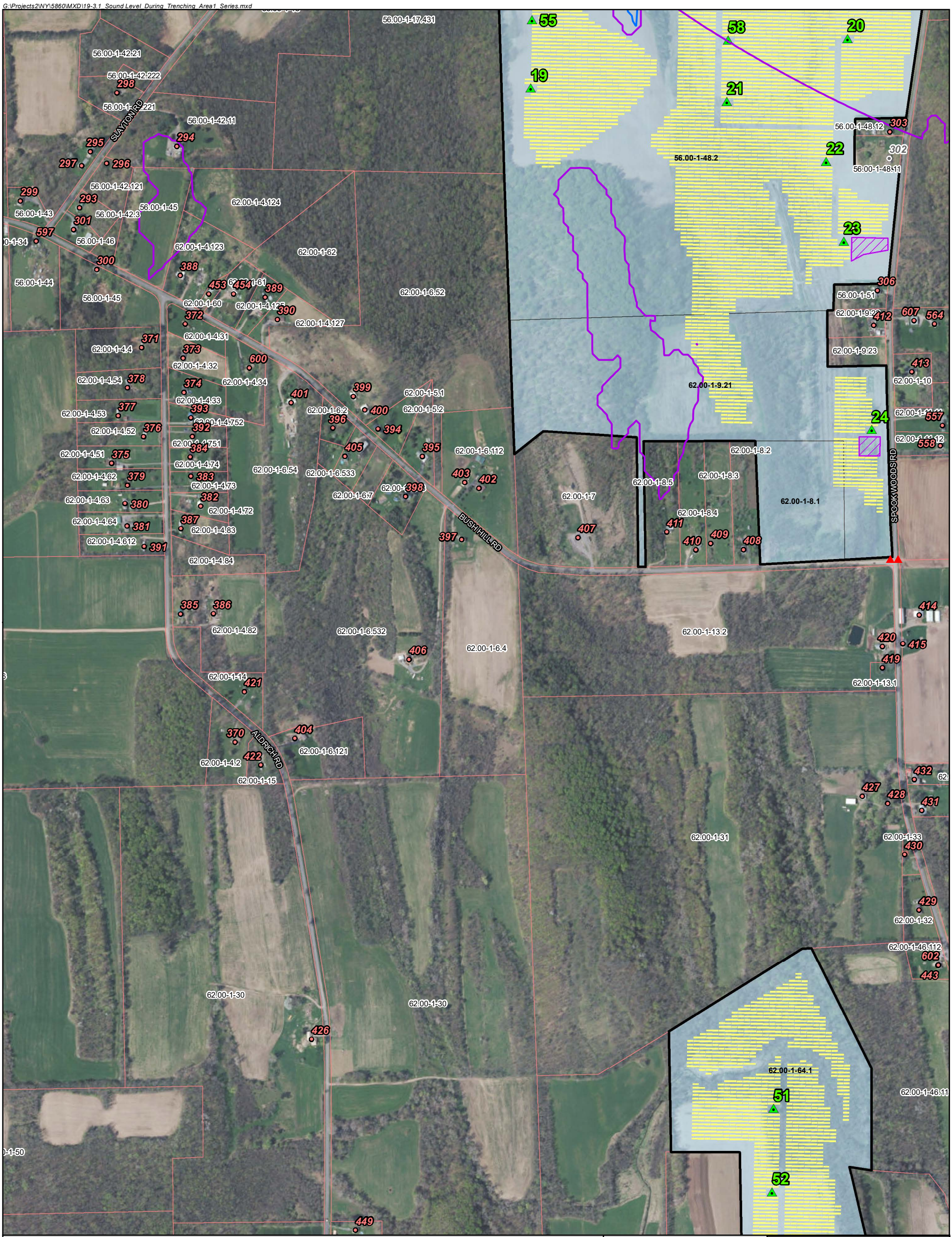
Figure 19-3.1, Map 14 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

		1	2	3
4	5	6	7	8
9	10	11	12	13
	14	15	16	17
		18	19	20

Garnet Energy Center **Cayuga County, New York**

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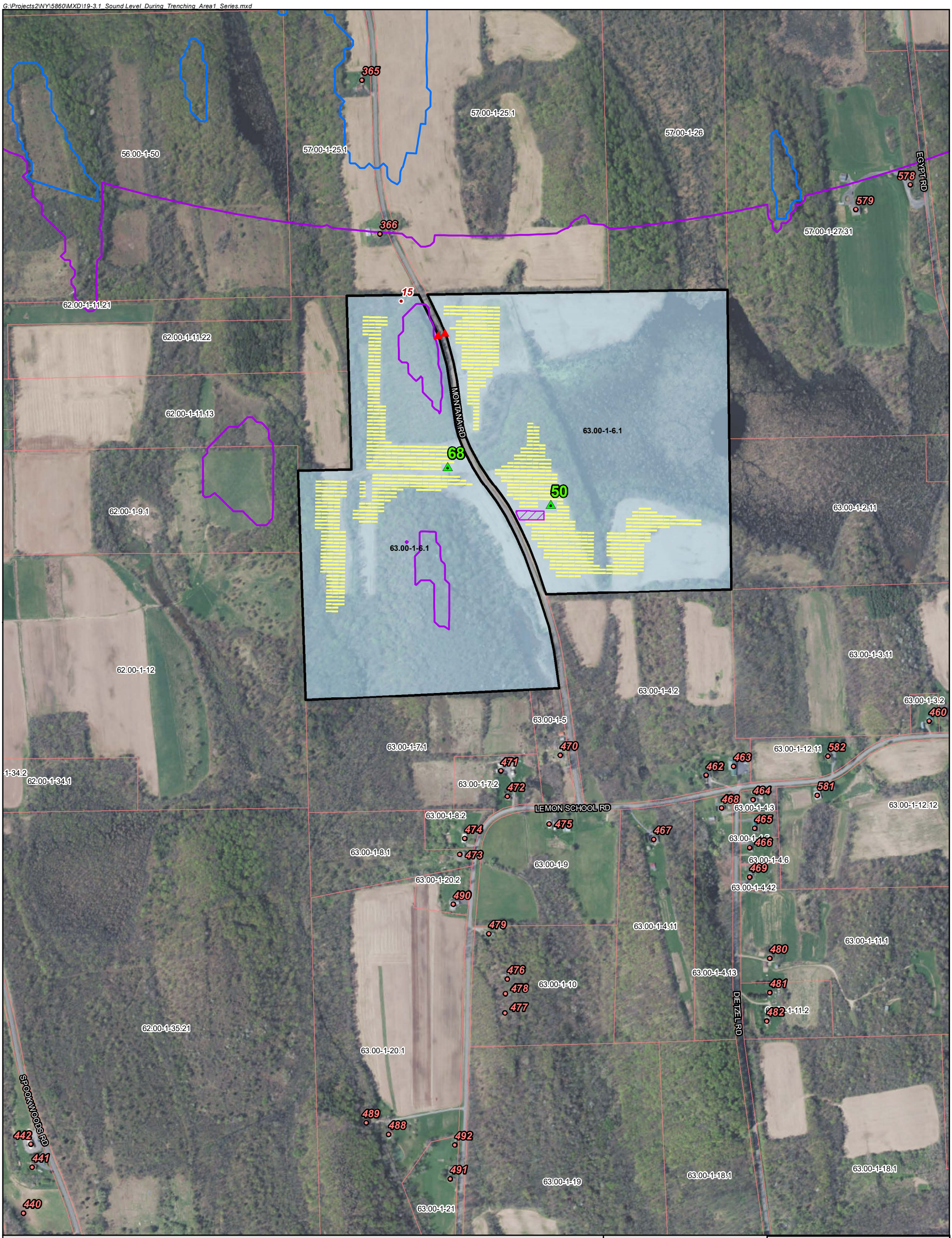
Figure 19-3.1, Map 15 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Garnet Energy Center Cayuga County, New York

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Figure 19-3.1, Map 16 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

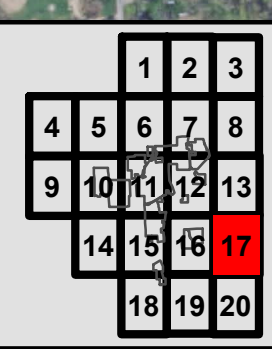
Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,



Garnet Energy Center **Cayuga County, New York**

Epsilon ASSOCIATES INC.

Figure 19-3.1, Map 17 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
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- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
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- Solar Array
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- Town Boundary
- State Route
- County Road

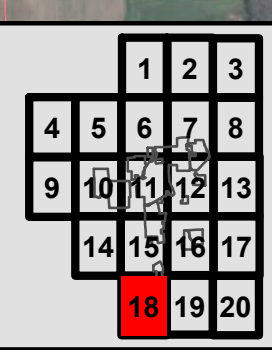
Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,



Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 18 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet
0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Garnet Energy Center Cayuga County, New York

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Figure 19-3.1, Map 19 of 20
Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_Area1_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

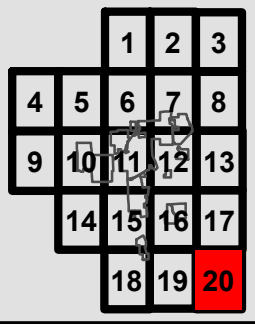
Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,



Garnet Energy Center **Cayuga County, New York**

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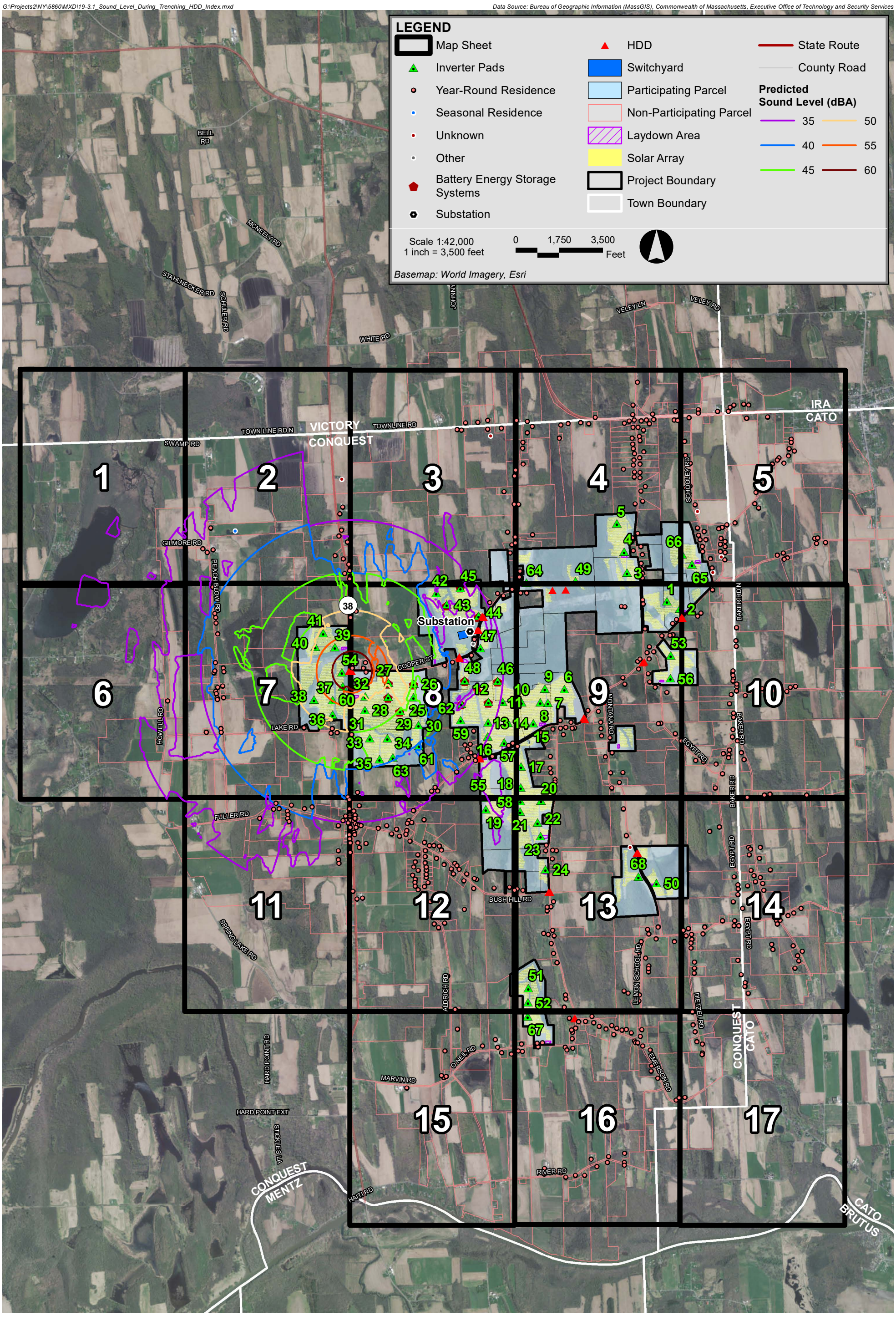
Figure 19-3.1, Map 20 of 20

Sound Levels During Trenching – Area 1

G:\Projects2\NY\5860\MXD\19-3.1_Sound_Level_During_Trenching_HDD_Index.mxd

Data Source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology and Security Services



Garnet Energy Center **Cayuga County, New York**

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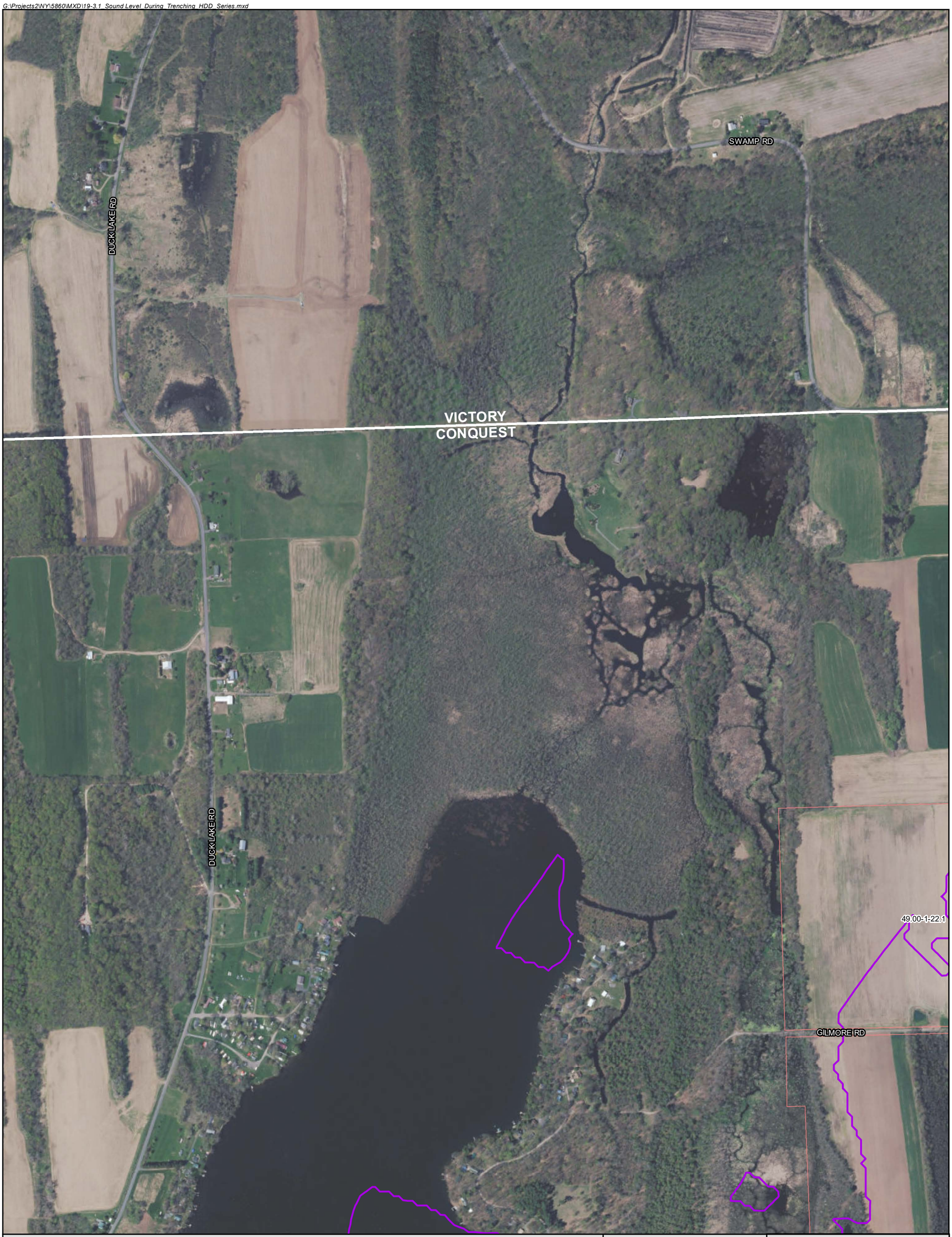
Figure 19-3.1, Index

Sound Levels During HDD – Area 2

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_HDD_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 1 of 17
Sound Levels During HDD – Area 2

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_HDD_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

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Figure 19-3.1, Map 2 of 17

Sound Levels During HDD – Area 2

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_HDD_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

- 35
- 40
- 45
- 50
- 55
- 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 3 of 17

Sound Levels During HDD – Area 2

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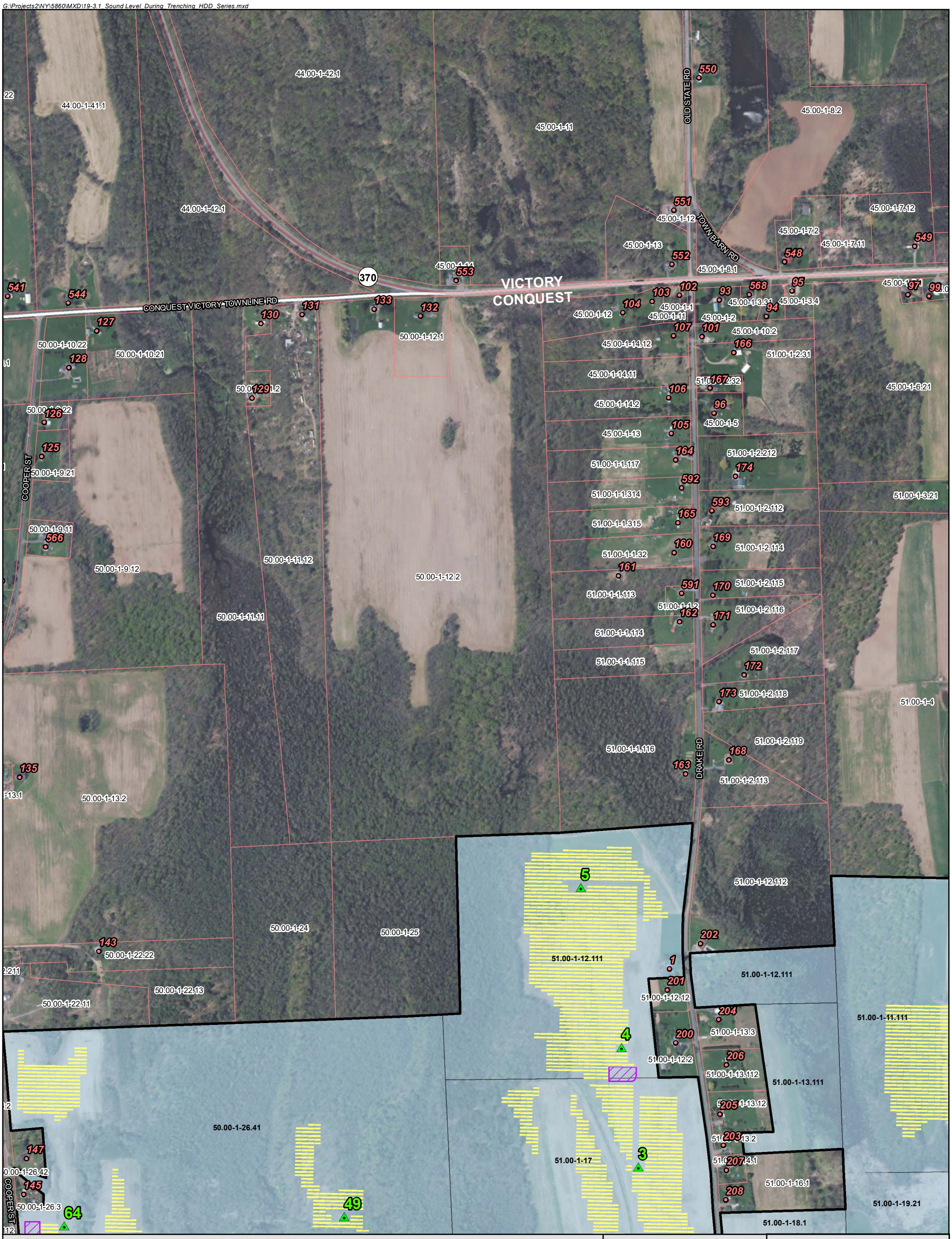

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

Garnet Energy Center **Cayuga County, New York**

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Figure 19-3.1, Map 4 of 17

Sound Levels During HDD – Area 2

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_HDD_Series.mxd

LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

Garnet Energy Center Cayuga County, New York

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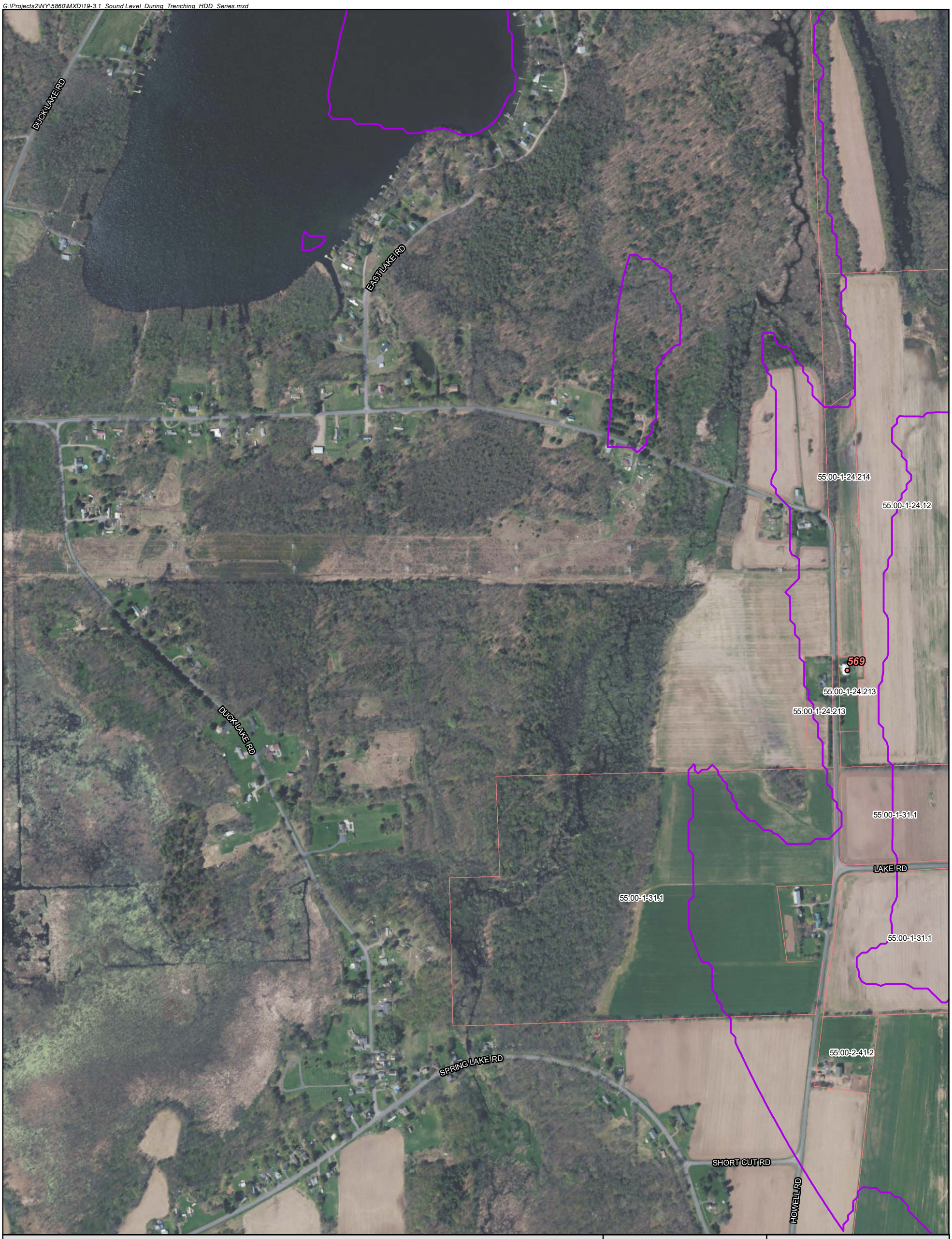
Figure 19-3.1, Map 5 of 17

Sound Levels During HDD – Area 2

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_HDD_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

Garnet Energy Center **Cayuga County, New York**

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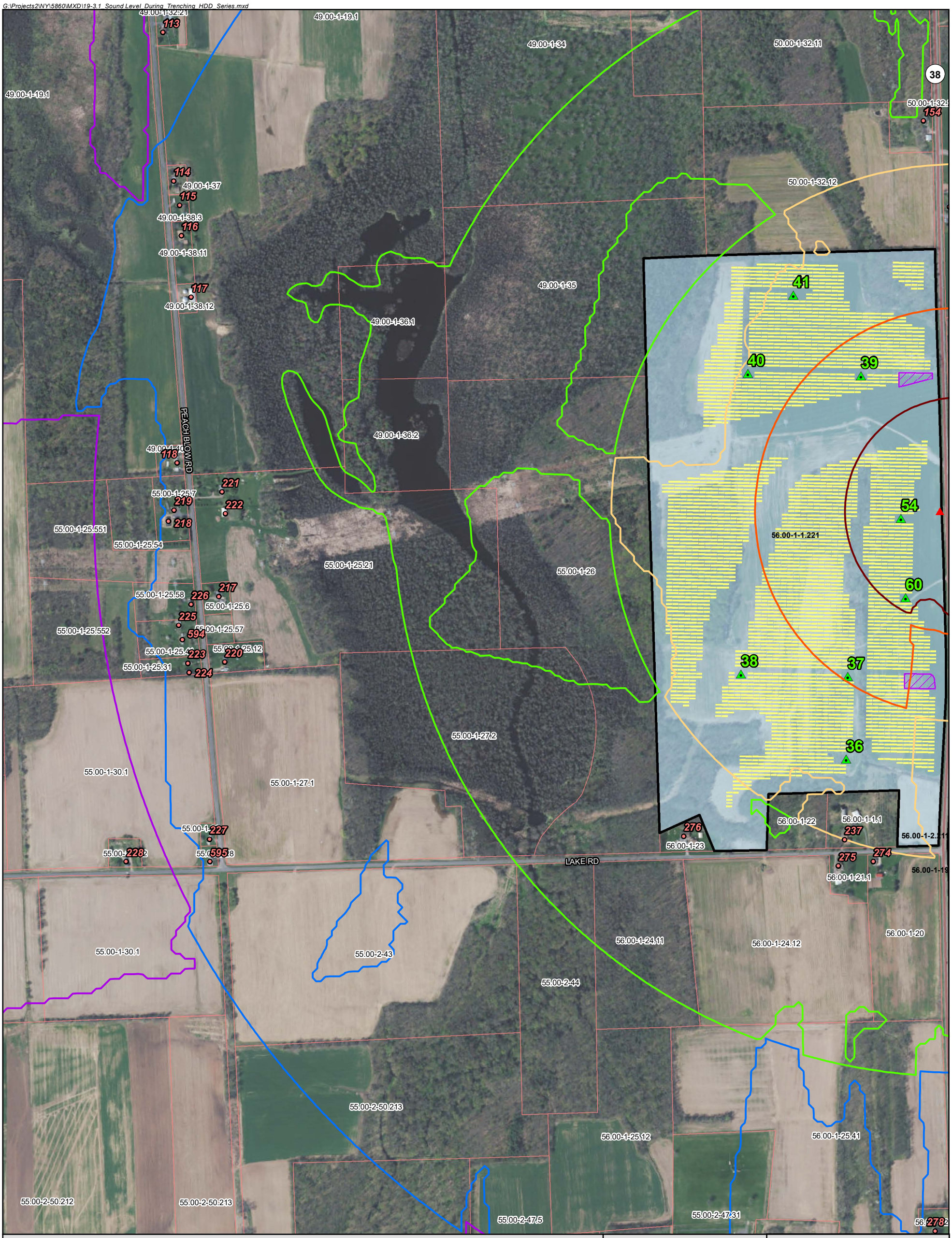
Figure 19-3.1, Map 6 of 17
Sound Levels During HDD – Area 2

G:\Projects2\NY\5860\MXD\19-3.1_Sound Level_During_Trenching_HDD_Series.mxd



LEGEND

- Inverter Pads
- Year-Round Residence
- Seasonal Residence
- Unknown
- Other
- Battery Energy Storage Systems
- Substation
- HDD
- Switchyard
- Participating Parcel
- Non-Participating Parcel
- Laydown Area
- Solar Array
- Project Boundary
- Town Boundary
- State Route
- County Road

Predicted Sound Level (dBA)

35, 40, 45, 50, 55, 60

Scale 1:7,800
1 inch = 650 feet

0 325 650 Feet

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

1	2	3	4	5
6	7	8	9	10
	11	12	13	14
		15	16	17

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Figure 19-3.1, Map 7 of 17

Sound Levels During HDD – Area 2