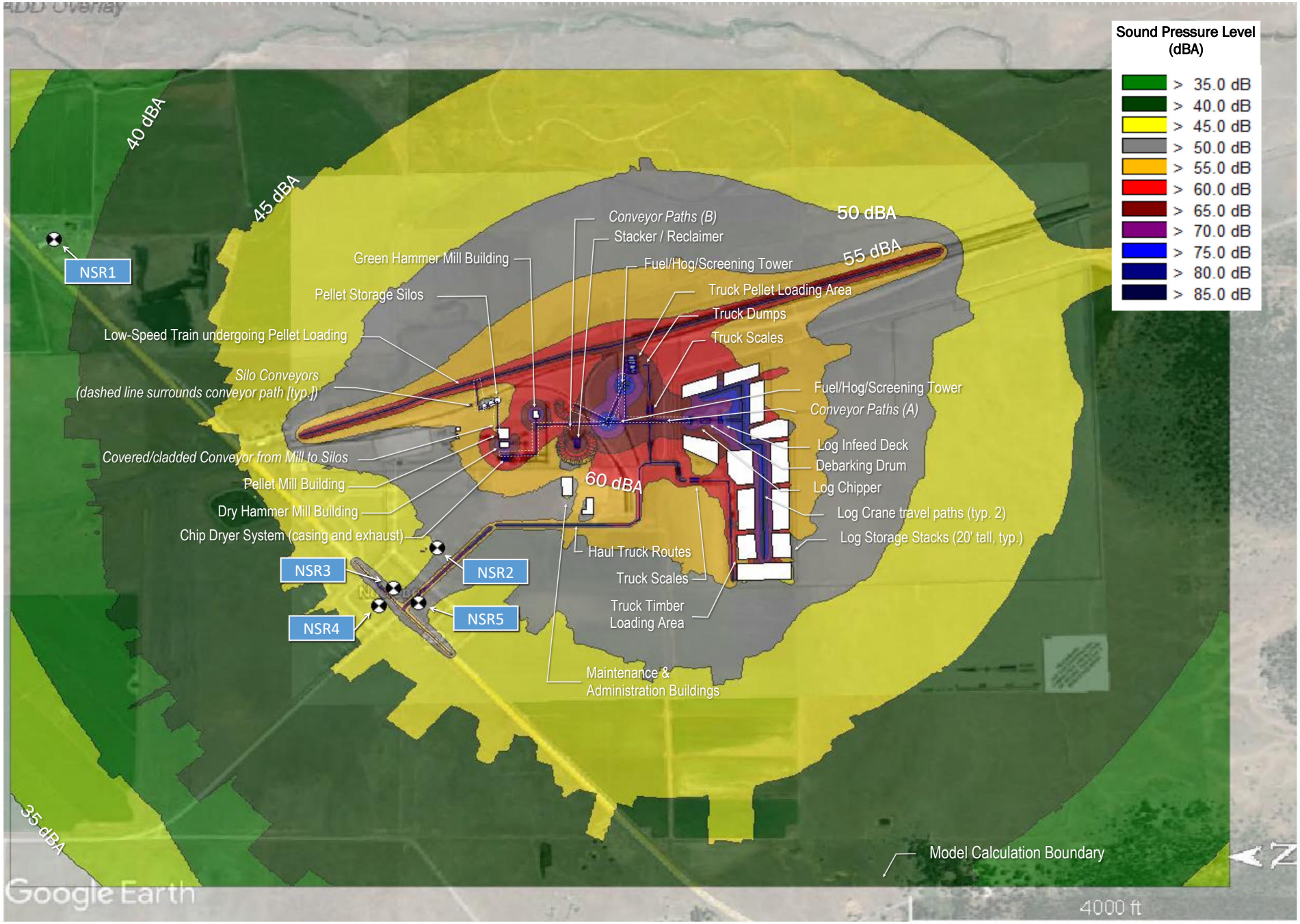
Appendix H4

Operation Noise Model Prediction Inputs



SOURCE: GSNR 2023; Dudek 2023

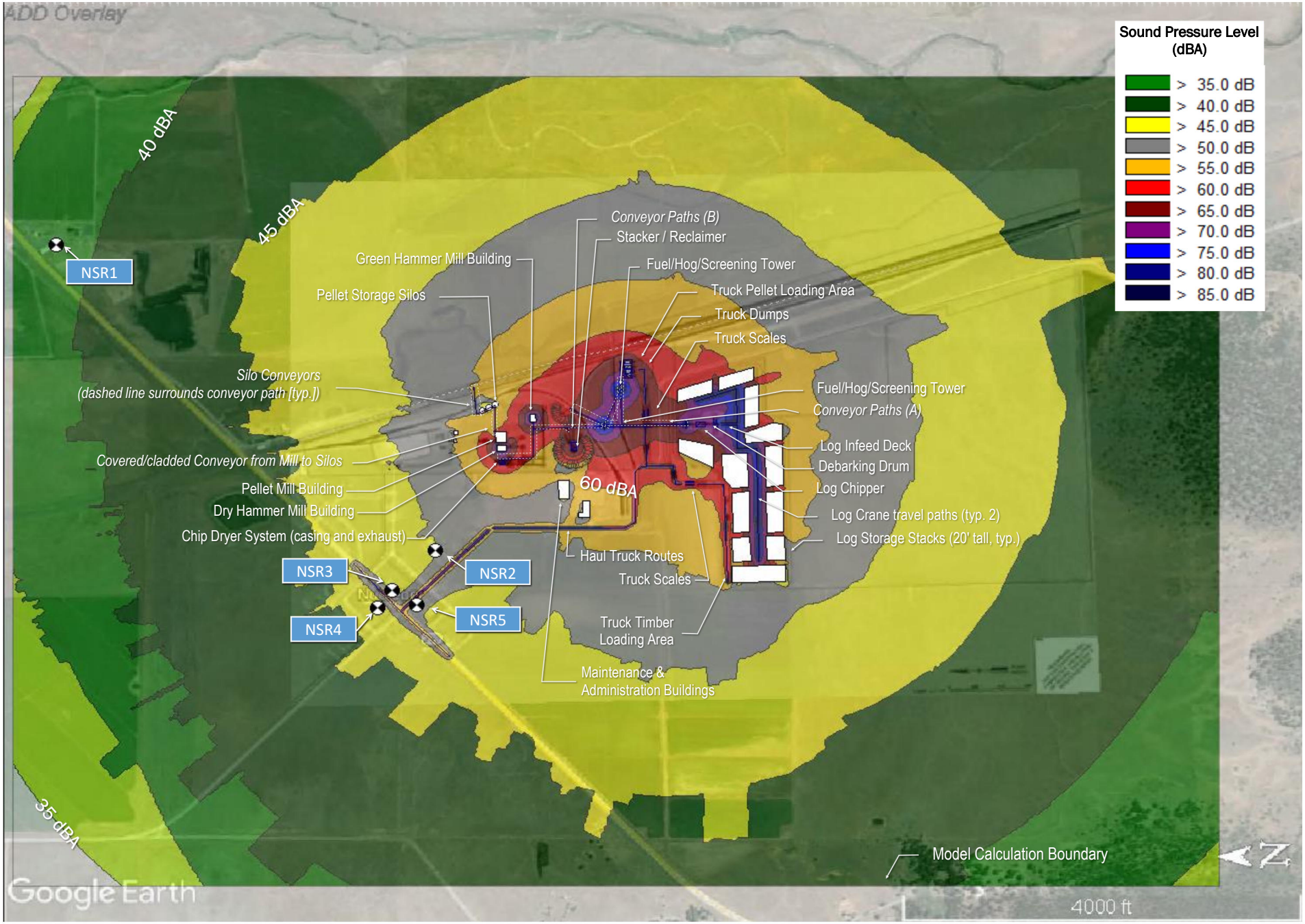
DUDEK

0 646.5 1293 Feet

FIGURE 3.12-1

Predicted Overall Operation Noise Levels - 12 hr with Rail Pellet Loading - Lassen

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



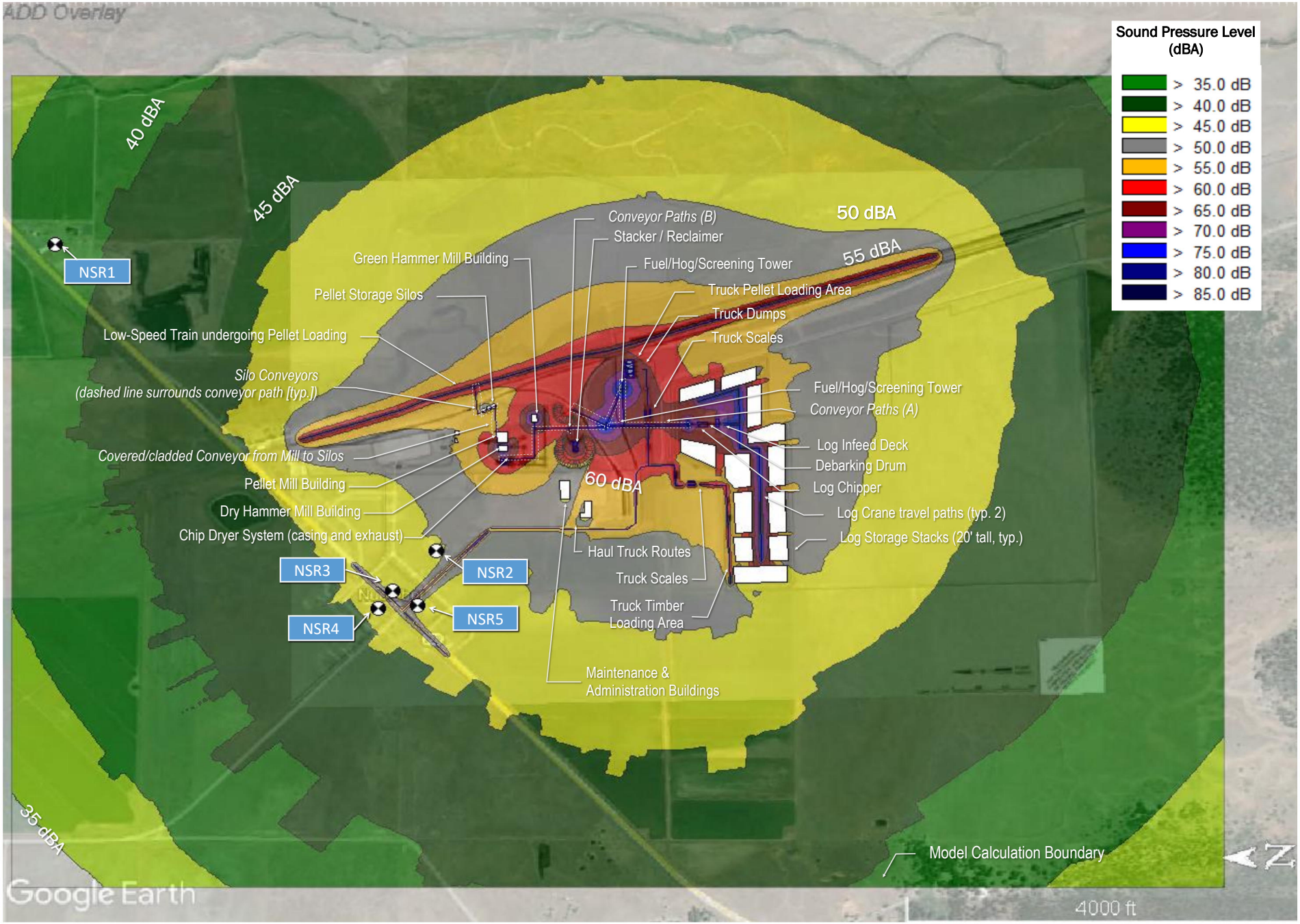
SOURCE: GSNR 2023; Dudek 2023

DUDEK

0 646.5 1293 Feet

FIGURE 3.12-2

Predicted Overall Operation Noise Levels - 12 hr without Rail Pellet Loading - Lassen



SOURCE: GSNR 2023; Dudek 2023

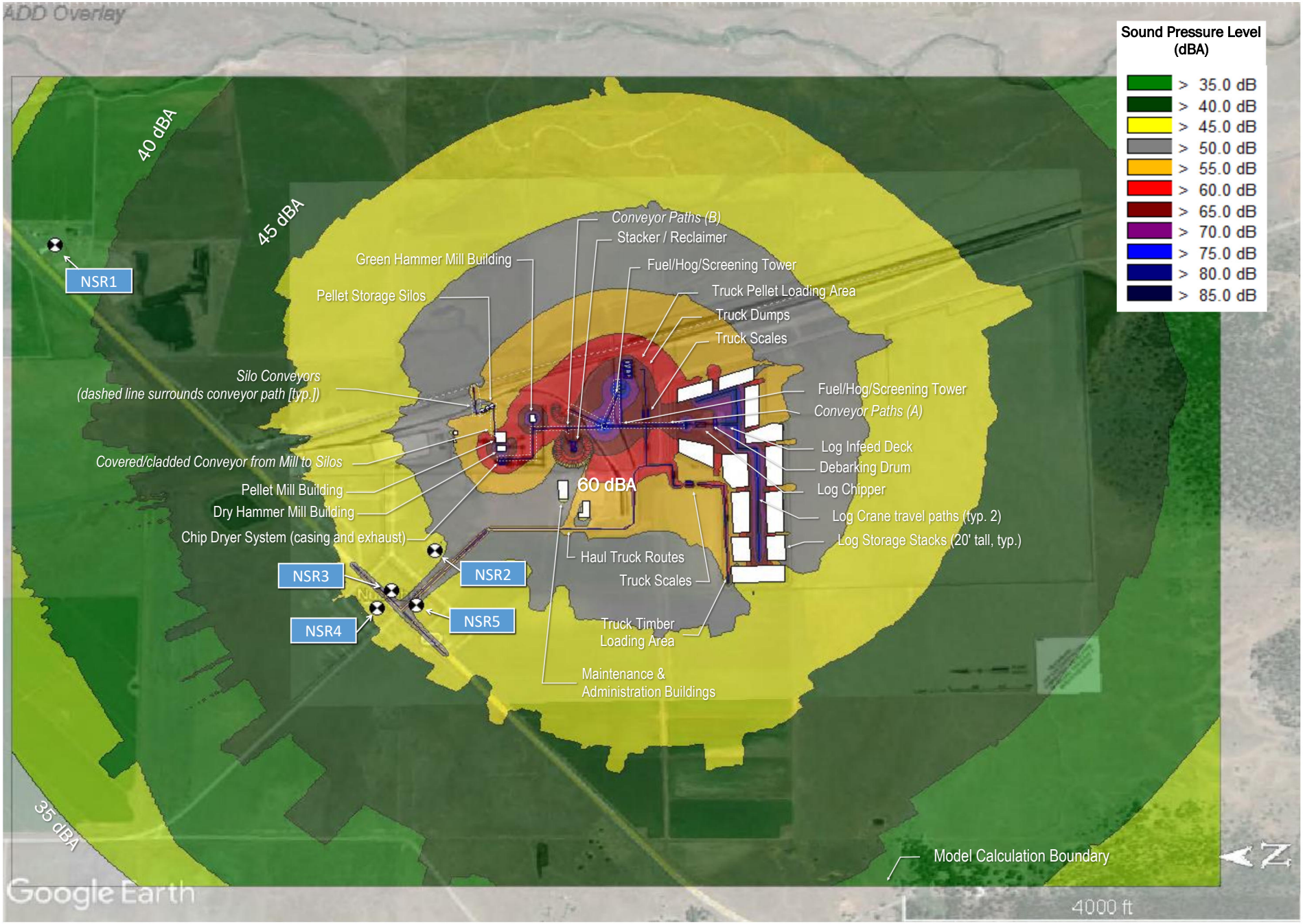
DUDEK

0 646.5 1293 Feet

FIGURE 3.12-3

Predicted Overall Operation Noise Levels - 24 hr Daytime with Rail Pellet Loading - Lassen

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



SOURCE: GSNR 2023; Dudek 2023

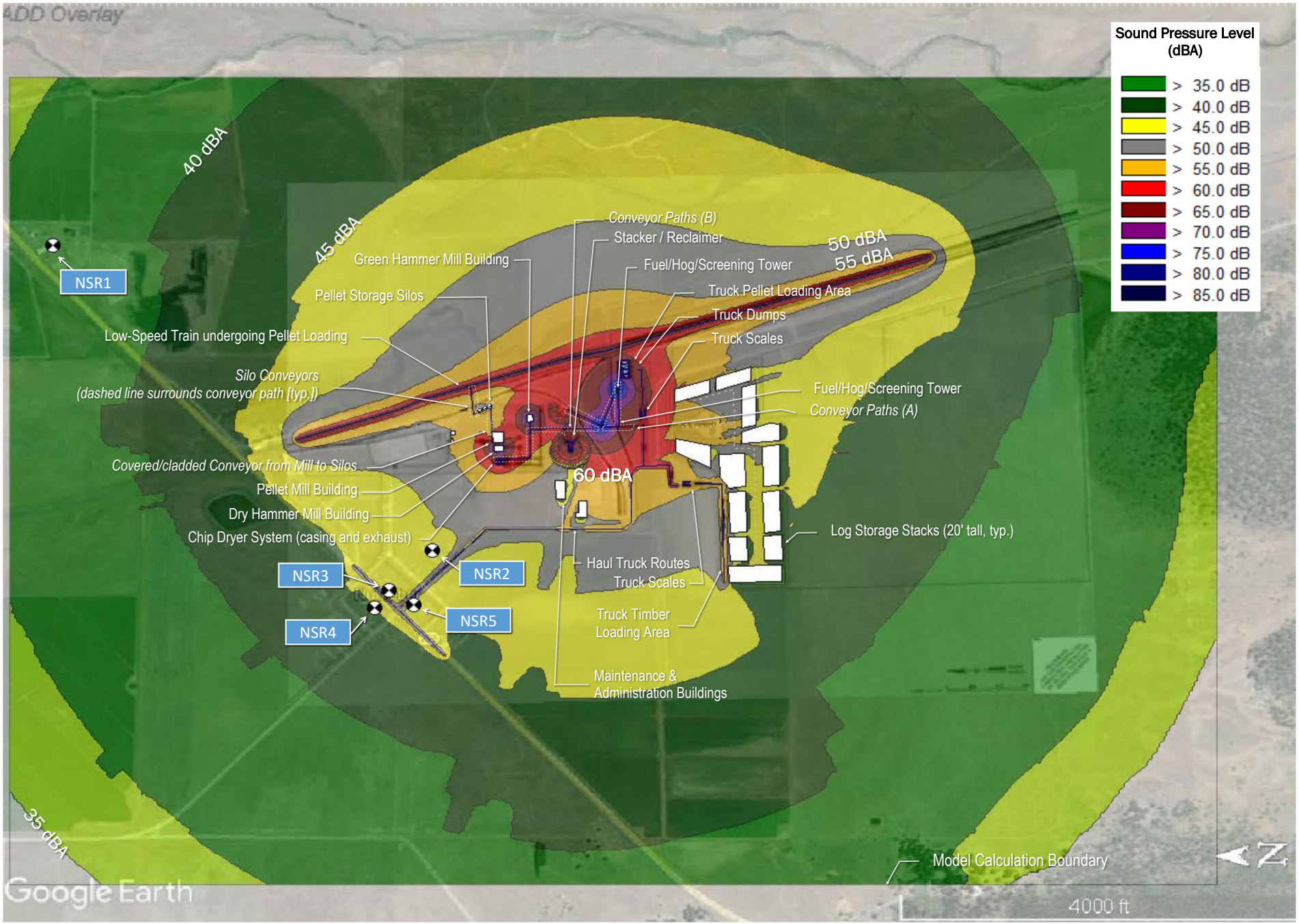
DUDEK

0 646.5 1293 Feet

FIGURE 3.12-4

Predicted Overall Operation Noise Levels - 24 hr Daytime without Rail Pellet Loading - Lassen

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



SOURCE: GSNR 2023; Dudek 2023

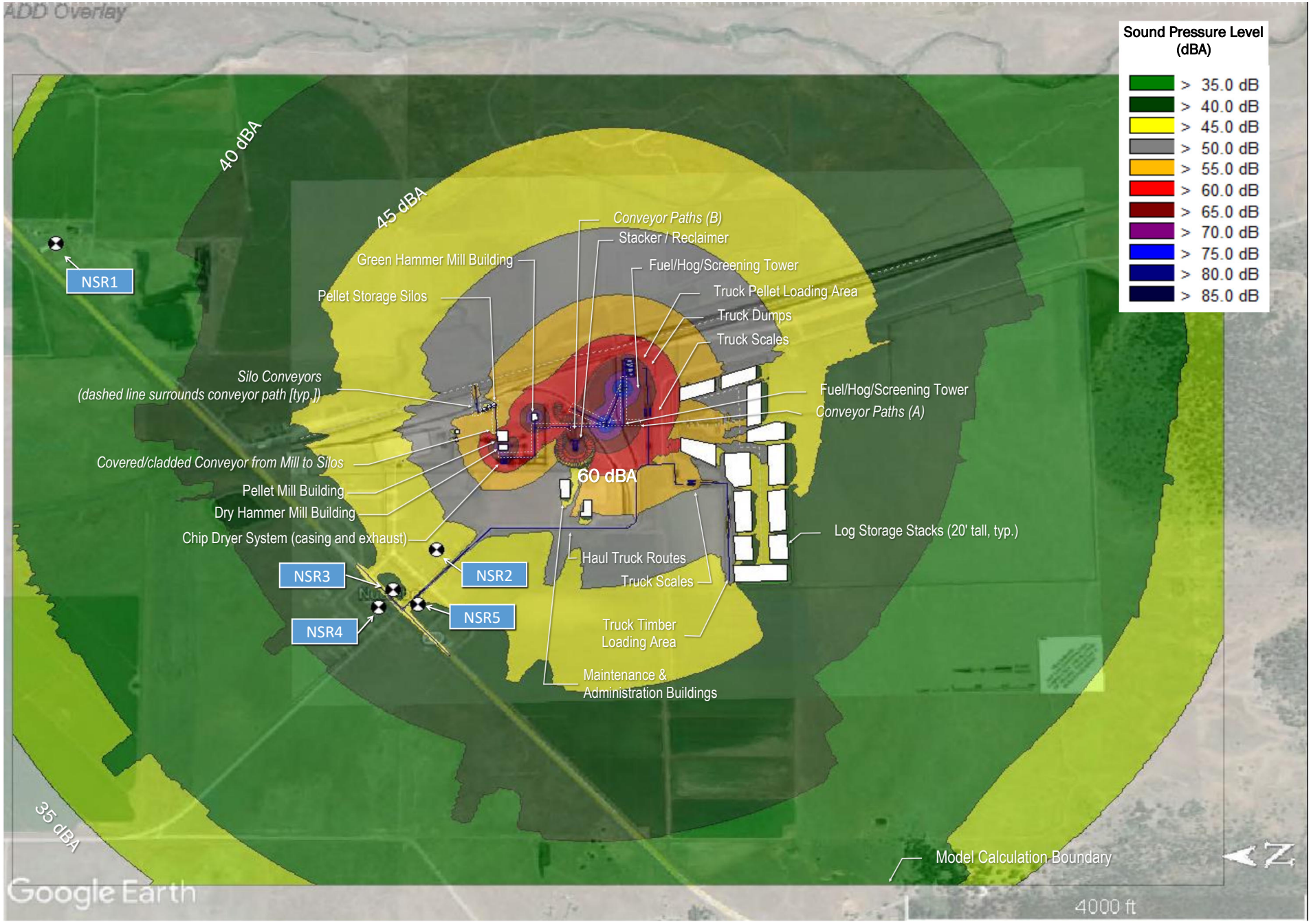
DUDEK

0 646.5 1293 Feet

FIGURE 3.12-5

Predicted Overall Operation Noise Levels - 24 hr Nighttime with Rail Pellet Loading - Lassen

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



SOURCE: GSNR 2023; Dudek 2023

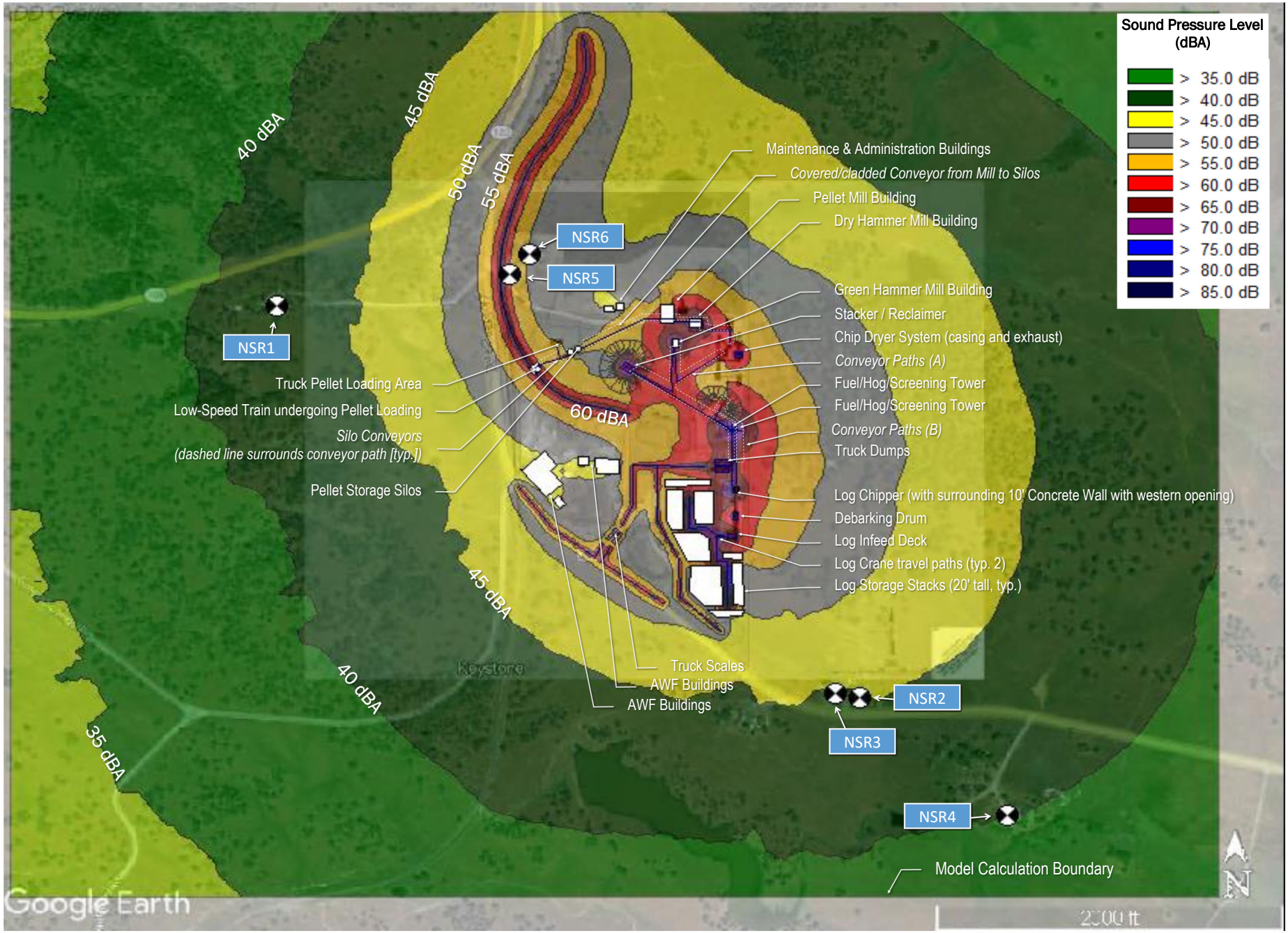
DUDEK

0 646.5 1293 Feet

FIGURE 3.12-6

Predicted Overall Operation Noise Levels - 24 hr Nighttime without Rail Pellet Loading - Lassen

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



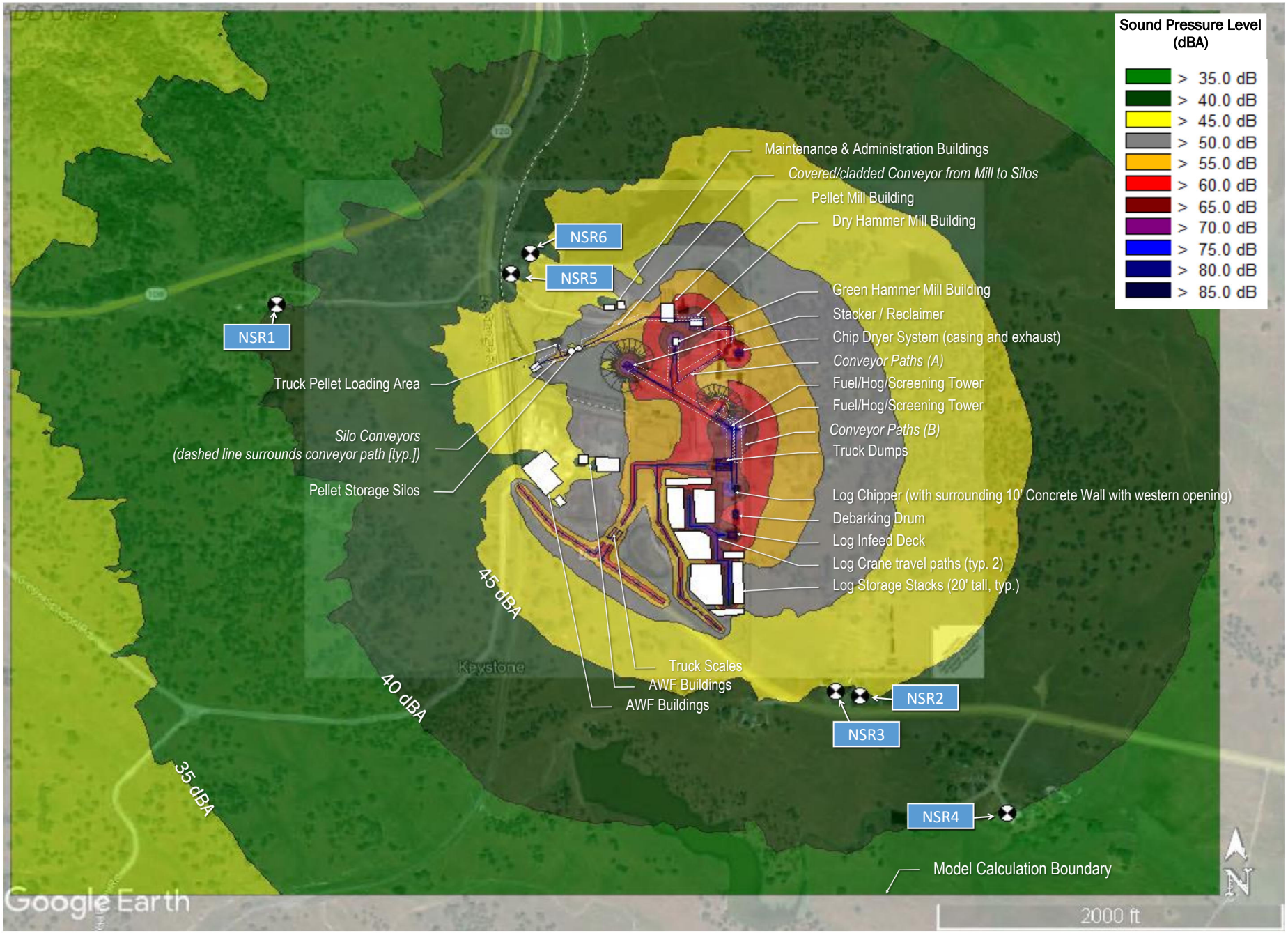
SOURCE: GSNR 2023; Dudek 2023

DUDEK

0 364 728 Feet

FIGURE 3.12-7

Predicted Overall Operation Noise Levels - 12 hr with Rail Pellet Loading - Tuolumne



SOURCE: GSNR 2023; Dudek 2023

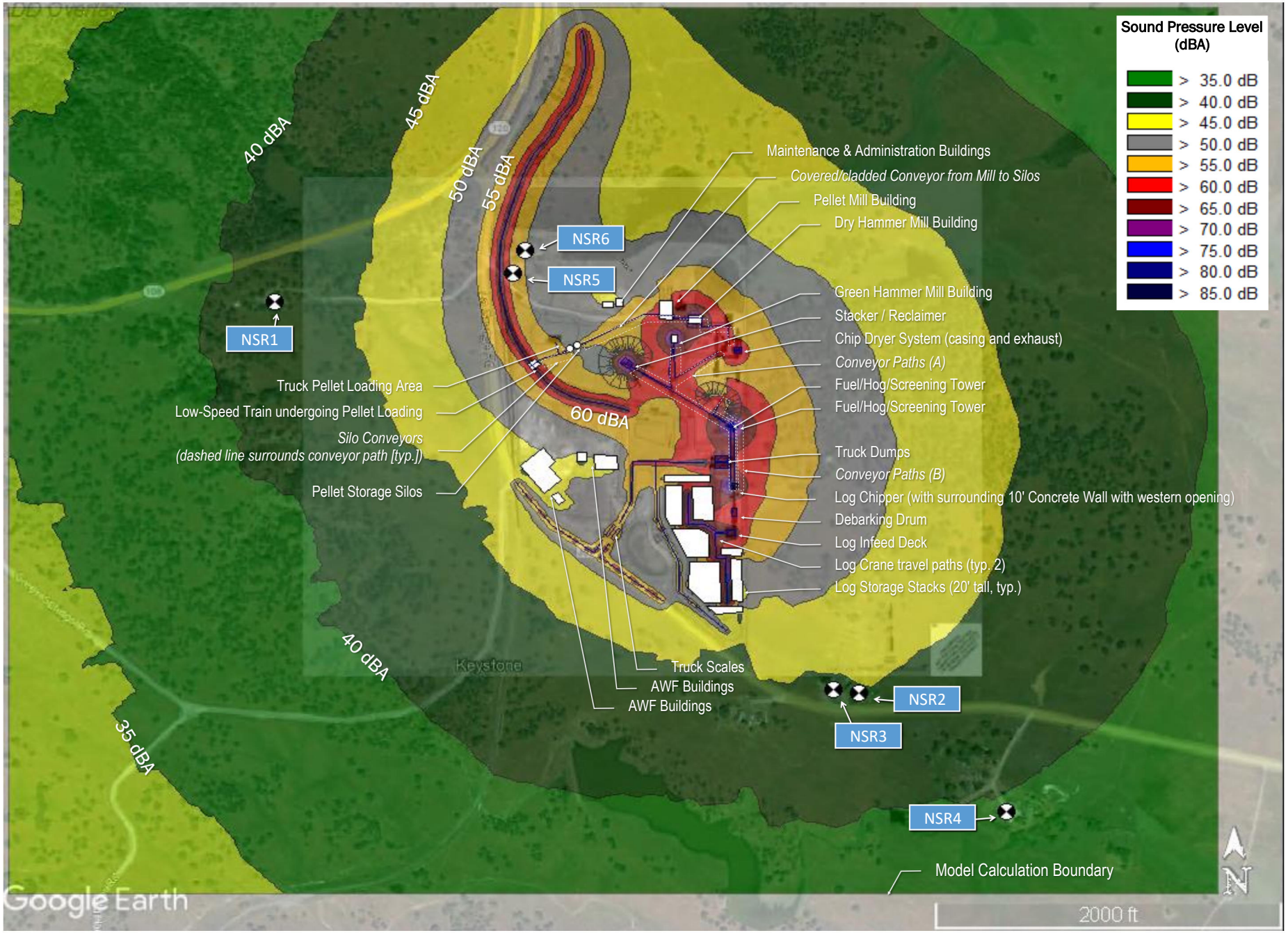
DUDEK

0 364 728 Feet

FIGURE 3.12-8

Predicted Overall Operation Noise Levels - 12 hr without Rail Pellet Loading - Tuolumne

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



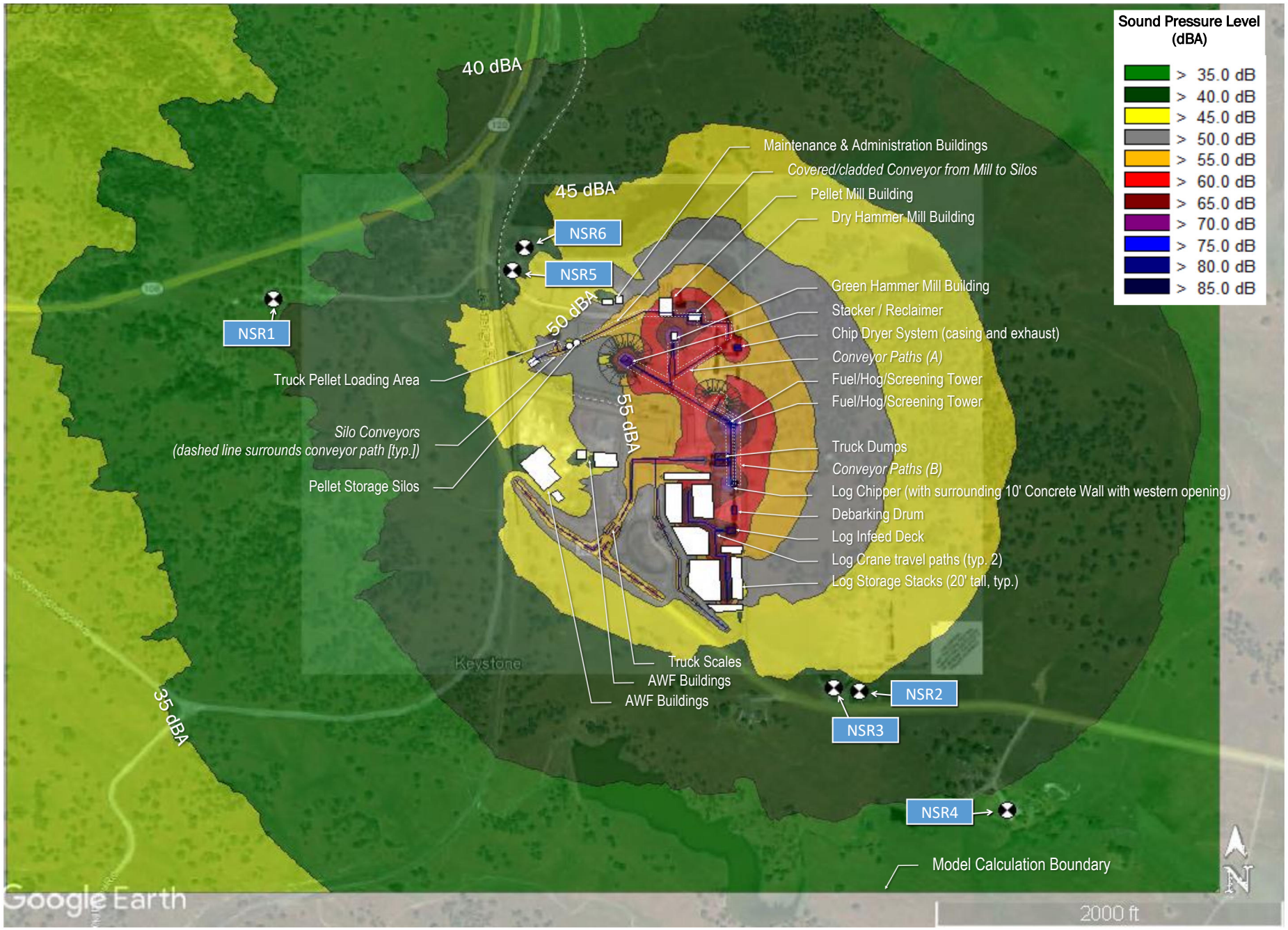
SOURCE: GSNR 2023; Dudek 2023

DUDEK

0 364 728 Feet

FIGURE 3.12-9

Predicted Overall Operation Noise Levels - 24 hr Daytime with Rail Pellet Loading - Tuolumne



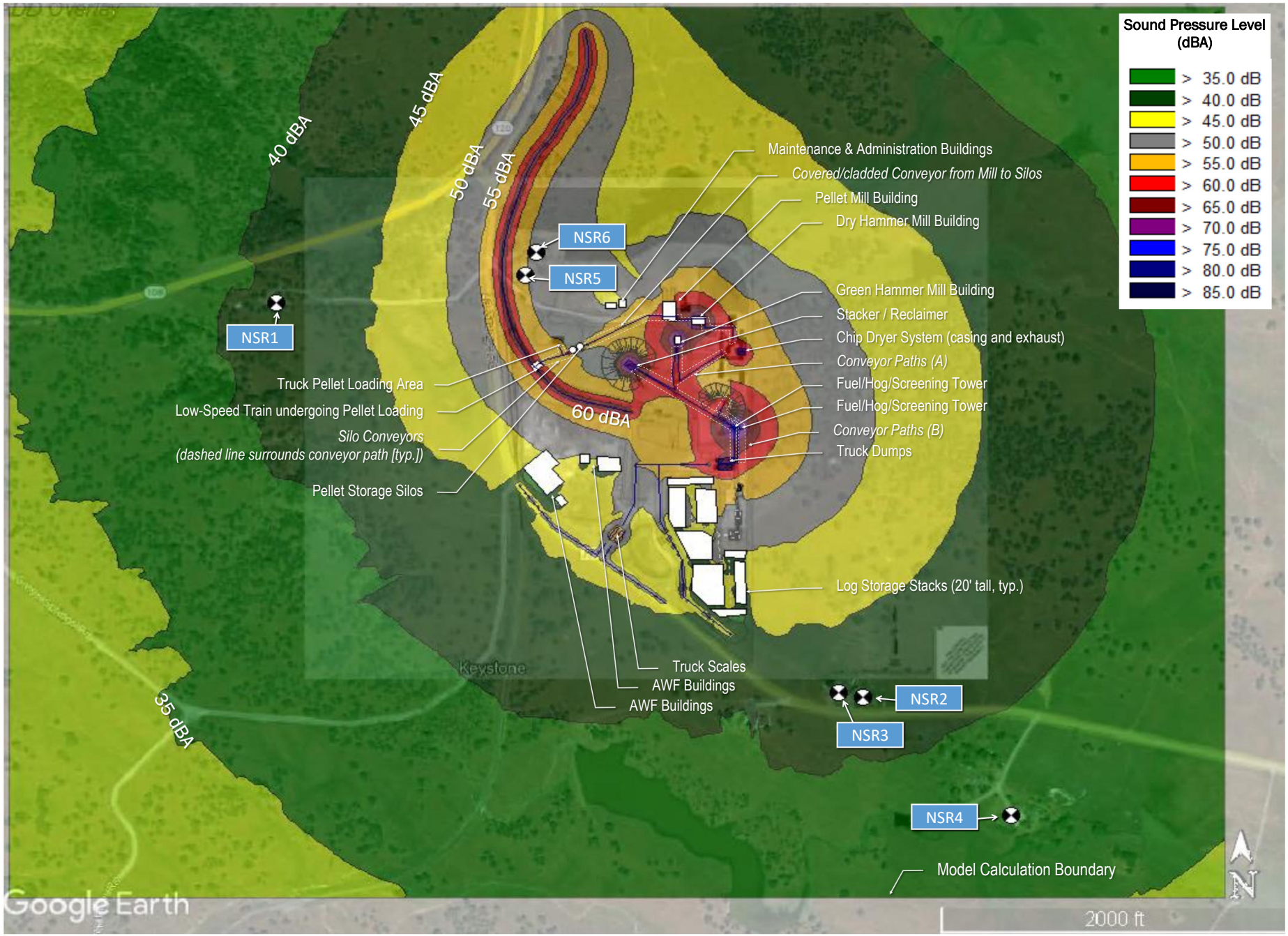
SOURCE: GSNR 2023; Dudek 2023

DUDEK

0 364 728 Feet

FIGURE 3.12-10

Predicted Overall Operation Noise Levels - 24 hr Daytime without Rail Pellet Loading - Tuolumne



SOURCE: GSNR 2023; Dudek 2023

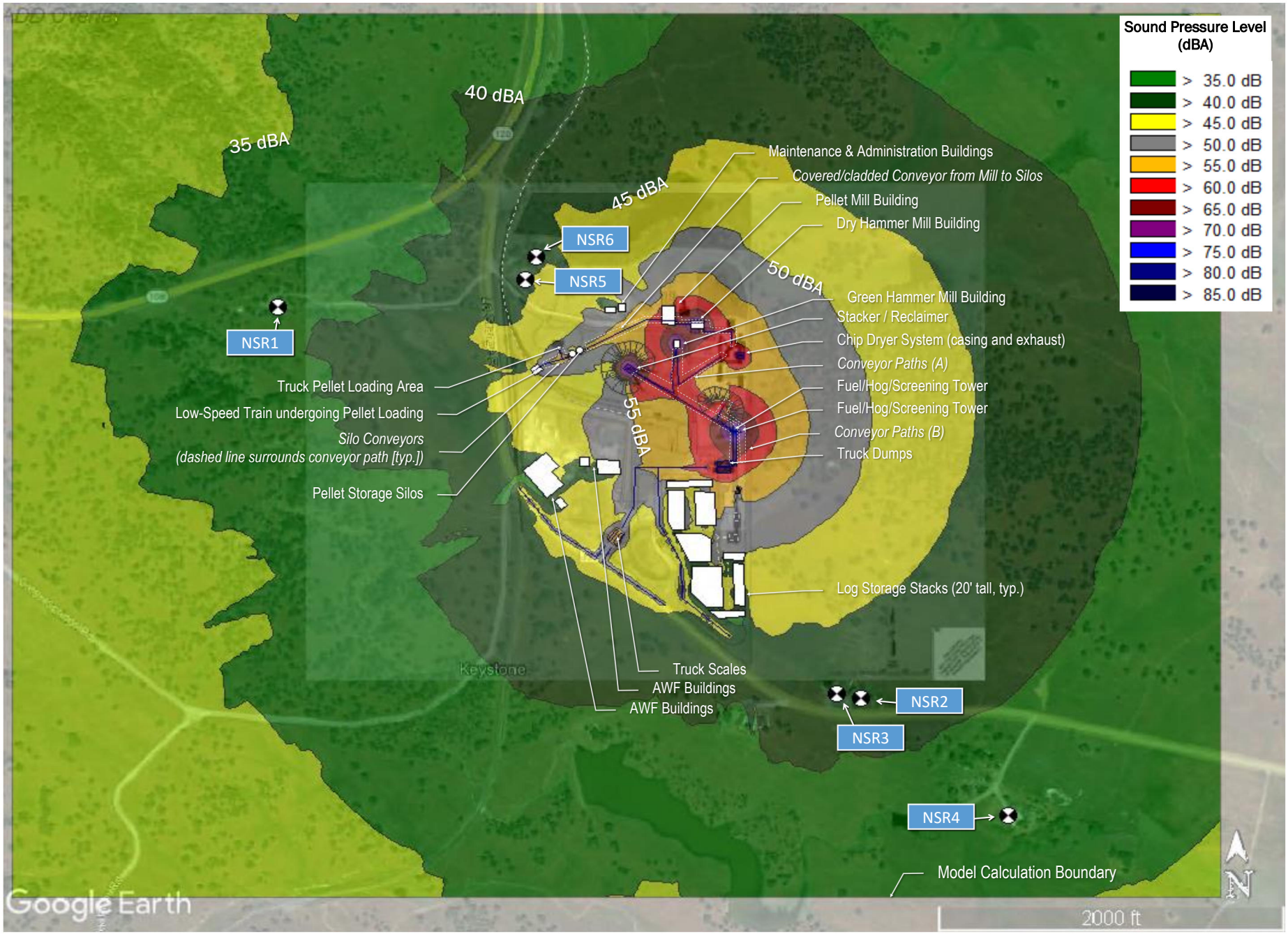
DUDEK

0 364 728 Feet

FIGURE 3.12-11

Predicted Overall Operation Noise Levels - 24 hr Nighttime with Rail Pellet Loading - Tuolumne

Golden State Natural Resources - Forest Resiliency Program Project (Dudek No. 12335)



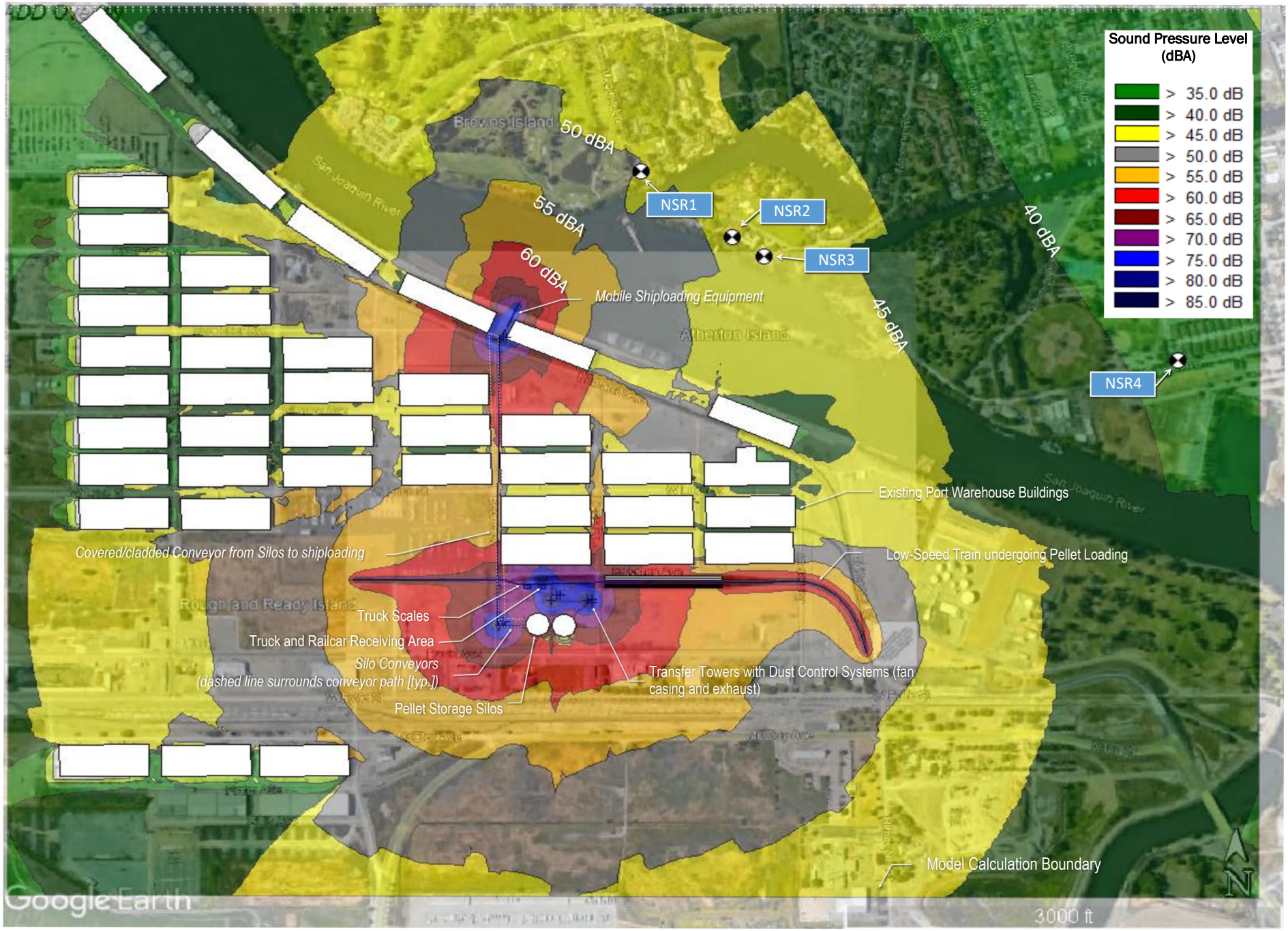
SOURCE: GSNR 2023; Dudek 2023

DUDEK

0 364 728 Feet

FIGURE 3.12-12

Predicted Overall Operation Noise Levels - 24 hr Nighttime without Rail Pellet Loading - Tuolumne



SOURCE: GSNR 2023; Dudek 2023

DUDEK

0 485 970 Feet

FIGURE 3.12-13

Predicted Overall Operation Noise Levels - Port of Stockton

Point Sources

Name	M.	ID	Result. PWL Day (dBA)	Evening (dBA)	Night (dBA)	Lw / Li Type	Value	norm. dB(A)	Correction Day dB(A)	Evening dB(A)	Night dB(A)	Sound Reduction R	Area (ft^2)	Attenuatio	Operating Time Day (min)	Special (min)	Night (min)	K0 (dB)	Freq. (Hz)	Direct.	Height (ft)		Coordinates X (ft)	Y (ft)	Z (ft)
Log Chipper		Chipper	107.9	107.9	107.9	Lw	DrumChipper		0	0	0								0	(none)	13.12	r	6851.56	5302.81	13.12
Fuel Screening/Hog/Residual Tower		FSHogTow	115.8	115.8	115.8	Lw	TransferTower		0	0	0								0	(none)	30	r	6028.8	5289.57	30
Fuel Screening/Hog/Residual Tower		ResTower	115.8	115.8	115.8	Lw	TransferTower		0	0	0								0	(none)	25	r	6196.15	5672.38	25

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction	Attenuatio	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (ft^2)	Day (min)	Special (min)	Night (min)	(dB)	(Hz)		Number Day	Evening	Night
DebarkingDrum		DDrum	87.8	87.8	87.8	61.1	61.1	61.1	Lw	DebarkingDrum		0	0	0						0		(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0		-1				0		(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0		-1				0		(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.8	69.8	69.8	Lw	TruckDumper		0	0	0		-1				0		(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0		-1				0		(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.9	63.9	63.9	Lw	IdlingTruck		0	0	0						0		(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.9	63.9	63.9	Lw	IdlingTruck		0	0	0						0		(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.1	63.1	63.1	Lw	IdlingTruck		0	0	0						0		(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.1	63.1	63.1	Lw	IdlingTruck		0	0	0						0		(none)			
Chip Dryer System		FanCasing	83.1	83.1	83.1	60.7	60.7	60.7	Lw	ChipDryer		0	0	0						0		(none)			
Chip Dryer System		Exhaust	92.6	92.6	92.6	70.2	70.2	70.2	Lw	ChipDryerExhaust		0	0	0						0		(none)			
Dry Hammer Mill Bldg		DHamMill	109.9	109.9	109.9	84.4	84.4	84.4	Lw	HammerMill		0	0	0						0		(none)			
Green Hammer Mill Bldg		GHamMill	109.9	109.9	109.9	86.6	86.6	86.6	Lw	HammerMill		0	0	0						0		(none)			
Pellet Mill Bldg		PelMill	96.9	96.9	96.9	71.2	71.2	71.2	Lw	PelletMill		0	0	0						0		(none)			
Stacker/Reclaimer		S/R	106.5	106.5	106.5	80	80	80	Lw	StackerReclaimer		0	0	0						0		(none)			
Log Infeed Deck		Infeed	95	95	95	70.7	70.7	70.7	Lw	LogInfeedDeck		0	0	0						0		(none)			

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft^2)	(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(mph)
ConveyorPath		Conveyor	92.2	92.2	92.2	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	92.3	92.3	92.3	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	87.4	87.4	87.4	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	87.4	87.4	87.4	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	86.6	86.6	86.6	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
mobile log crane - north		MLCN	118.5	118.5	118.5	93.9	93.9	93.9	Lw	106		0	0	0			-3				0	(none)				
loading train	-	LDTRN	112.1	112.1	112.1	79	79	79	Lw'	TRAIN		0	0	0			60				0	(none)				
pellet loader		PLDR	86.3	86.3	86.3	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
truck dump conveyor - covered/clad		TDCONV	86.2	86.2	86.2	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
mill bldg 2 silos conveyor - covered/cl		M2SCONV	88.7	88.7	88.7	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
GHM 2 dryer conveyor - covered/clac		GMH2DC	89.5	89.5	89.5	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
mobile log crane - south		MLCS	118.5	118.5	118.5	91.1	91.1	91.1	Lw	106		0	0	0			-3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	72.2	72.2	72.2	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	79.1	79.1	79.1	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	79.9	79.9	79.9	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	75.1	75.1	75.1	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	98.2	98.2	98.2	70.5	70.5	70.5	Lw	IdlingTruck		0	0	0			-15.3				0	(none)				
8hr Truck Scenario		TruckTrip	98.2	98.2	98.2	70.5	70.5	70.5	Lw	IdlingTruck		0	0	0			-15.3				0	(none)				

Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(ft)	(ft)	(ft)	(ft)	(ft)

Buildings

Name	M.	ID	RB	Residents	Absorptior	Height Begin (ft)	
South Building		SBuild	x	0		20	r
South Building		SBuild	x	0		20	r
Pellet Mill Bldg		PMBuild	x	0			
Dry Hammer Mill Bldg		DHM	x	0			
Green Hammer Mill Bld		GHM	x	0		40	r
Office Bldg		Office	x	0		20	r
Maintenance Bldg		MaintBldg	x	0		20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r

Embankments

Name	M.	ID	rel. Height (ft)	Slope 1:00	Top Width (ft)
chip storag		CSP	55	1.5	0
fuel storag		FSP	50	1.5	0

Cylinders

Name	M.	ID	Absorptior	Center x (ft)	y (ft)	Radius (ft)	Height (ft)	
Pellet Silos		Silo		4812.17	5447.73	33.49	100	r
Pellet Silos		Silo		4874.89	5477.03	35.12	100	r
Pellet Silos		Silo		4939.63	5507.14	36.75	100	r

Point Sources

Name	M.	ID	Result. PWL Day (dBA)	Evening (dBA)	Night (dBA)	Lw / Li Type	Value	norm. dB(A)	Correction Day dB(A)	Evening dB(A)	Night dB(A)	Sound Reduction R	Area (ft^2)	Attenuatio	Operating Time Day (min)	Special (min)	Night (min)	K0 (dB)	Freq. (Hz)	Direct.	Height (ft)		Coordinates X (ft)	Y (ft)	Z (ft)
Fuel Screening/Hog/Residual Tower		FSHT	105.8	105.8	105.8	Lw	TransferTower		0	0	0				10				0	(none)	40	r	4238.72	3070.03	40
Fuel Screening/Hog/Residual Tower		FSHT	105.8	105.8	105.8	Lw	TransferTower		0	0	0				10				0	(none)	40	r	4219.42	3074.16	40

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft^2)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Truck Scales	+	IdleTruck	82.9	82.9	82.9	61.5	61.5	61.5	Lw	IdlingTruck		0	0	0							0		(none)			
Truck Scales	+	IdleTruck	82.9	82.9	82.9	61.5	61.5	61.5	Lw	IdlingTruck		0	0	0							0		(none)			
Pellet Mill Bldg		PelMill	96.9	96.9	96.9	74.8	74.8	74.8	Lw	PelletMill		0	0	0							0		(none)			
Green Hammer Mill Bldg		GHamMill	104.9	104.9	104.9	87.8	87.8	87.8	Lw	HammerMill		0	0	0							0		(none)			
Chip Dryer System		FanCasing	83.1	83.1	83.1	65.8	65.8	65.8	Lw	ChipDryer		0	0	0							0		(none)			
Chip Dryer System		Exhaust	92.6	92.6	92.6	75.3	75.3	75.3	Lw	ChipDryerExhaust		0	0	0							0		(none)			
Stacker/Reclaimer		S/R	106.5	106.5	106.5	83.1	83.1	83.1	Lw	StackerReclaimer		0	0	0							0		(none)			
Debarking Drum		Drum	87.8	87.8	87.8	67.4	67.4	67.4	Lw	DebarkingDrum		0	0	0							0		(none)			
Log Chipper		Chipper	107.9	107.9	107.9	89	89	89	Lw	DrumChipper		0	0	0							0		(none)			
Log Infeed Deck		Infeed	95	95	95	73.3	73.3	73.3	Lw	LogInfeedDeck		0	0	0							0		(none)			
Dry Hammer Mill Bldg		DHamMill	104.9	104.9	104.9	84.6	84.6	84.6	Lw	HammerMill		0	0	0							0		(none)			
Truck Dumps	+	Dumps	93.5	93.5	93.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0							0		(none)			
Truck Dumps	+	Dumps	93.5	93.5	93.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0							0		(none)			

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft^2)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(mph)
Conveyor Paths - covered/cladded		Conveyor	94.7	94.7	94.7	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)					
Conveyor Paths - covered/cladded		Conveyor	89.2	89.2	89.2	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)					
Conveyor Paths - covered/cladded		CCNVR	91.7	91.7	91.7	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)					
Timber Forklift - south		TFS	104.7	104.7	104.7	82.6	82.6	82.6	Lw	MTC		0	0	0							0	(none)					
silos to rail loader		S2RL	100.3	100.3	100.3	81.6	81.6	81.6	Lw'	ConveyorPath		0	0	0							0	(none)					
silos to truck loader		S2TL	95.5	95.5	95.5	81.6	81.6	81.6	Lw'	ConveyorPath		0	0	0							0	(none)					
loading train	-	LDTRN	108.3	108.3	108.3	78.9	78.9	78.9	Lw'	TRAIN		0	0	0			60				0	(none)					
Timber Forklift north		TFN	104.7	104.7	104.7	83.7	83.7	83.7	Lw	MTC		0	0	0							0	(none)					
8hr Truck Scenario		TruckTrip	97.2	97.2	97.2	73.8	73.8	73.8	Lw	IdlingTruck		0	0	0			-14.3				0	(none)					
8hr Truck Scenario		TruckTrip	97.2	97.2	97.2	74.9	74.9	74.9	Lw	IdlingTruck		0	0	0			-14.3				0	(none)					
8hr Truck Scenario		TruckTrip	97.2	97.2	97.2	73.2	73.2	73.2	Lw	IdlingTruck		0	0	0			-14.3				0	(none)					
8hr Truck Scenario		TruckTrip	97.2	97.2	97.2	71.6	71.6	71.6	Lw	IdlingTruck		0	0	0			-14.3				0	(none)					

Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height		
			left	right		horz.	vert.	Begin		End
					(ft)	(ft)	(ft)	(ft)		(ft)
Chipper Barrier		ChipBar						10	r	

Buildings

Name	M.	ID	RB	Residents	Absorptior	Height Begin (ft)	
Maintenance Building		MaintBldg	x	0		20	r
Admin Building		Admin	x	0		20	r
AWF Building		AWF	x	0		20	r
AWF Building		AWF	x	0		30	r
AWF Building		AWF	x	0		20	r
AWF Building		AWF	x	0		20	r
Pellet Mill Bldg		PelMill	x	0		40	r
Green Hammer Mill Bld		GHamMill	x	0		40	r
Rail Loadout Bldg		RailBldg	x	0		20	r
Dry Hammer Mill Bldg		DHamMill	x	0		40	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r
log stack		logs		0	0.25	20	r

Cylinders

Name	M.	ID	Absorptior	Center x (ft)	Center y (ft)	Radius (ft)	Height (ft)	
Pellet Silos		Silo		3301.96	3542.81	22.96	100	r
Pellet Silos		Silo		3343.41	3562.11	22.96	100	r

Embankments

Name	M.	ID	rel. Height (ft)	Slope 1:00	Top Width (ft)
Chip Storage Pile		CSP	55	1.5	0
Chip Storage Pile		CSP	50	1.5	0

Point Sources

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
			Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (ft^2)		Day (min)	Special (min)	Night (min)	(dB)	(Hz)		(ft)		X (ft)	Y (ft)	Z (ft)
Log Chipper		Chipper	107.9	107.9	107.9	Lw	DrumChipper		0	0	0								0	(none)	13.12	r	6851.56	5302.81	13.12
Fuel Screening/Hog/Residual Tower		FSHogTow	115.8	115.8	115.8	Lw	TransferTower		0	0	0								0	(none)	30	r	6028.8	5289.57	30
Fuel Screening/Hog/Residual Tower		ResTower	115.8	115.8	115.8	Lw	TransferTower		0	0	0								0	(none)	25	r	6196.15	5672.38	25

Area Sources

Name	M.	ID	Result. PWL Day (dBA)	Result. PWL Evening (dBA)	Result. PWL Night (dBA)	Result. PWL" Day (dBA)	Result. PWL" Evening (dBA)	Result. PWL" Night (dBA)	Lw / Li Type	Value	norm. dB(A)	Correction Day dB(A)	Correction Evening dB(A)	Correction Night dB(A)	Sound Reduction R	Sound Reduction Area (ft²)	Attenuatio	Operating Time Day (min)	Operating Time Special (min)	Operating Time Night (min)	K0 (dB)	Freq. (Hz)	Direct.	Moving Pt. Src Number Day	Moving Pt. Src Number Evening	Moving Pt. Src Number Night
DebarkingDrum		DDrum	87.8	87.8	87.8	61.1	61.1	61.1	Lw	DebarkingDrum		0	0	0							0	(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0			-1				0	(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0			-1				0	(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.8	69.8	69.8	Lw	TruckDumper		0	0	0			-1				0	(none)			
Truck Dumps		Dumps	94.5	94.5	94.5	69.7	69.7	69.7	Lw	TruckDumper		0	0	0			-1				0	(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.9	63.9	63.9	Lw	IdlingTruck		0	0	0							0	(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.9	63.9	63.9	Lw	IdlingTruck		0	0	0							0	(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.1	63.1	63.1	Lw	IdlingTruck		0	0	0							0	(none)			
Truck Scales		IdleTruck	82.9	82.9	82.9	63.1	63.1	63.1	Lw	IdlingTruck		0	0	0							0	(none)			
Chip Dryer System		FanCasing	83.1	83.1	83.1	60.7	60.7	60.7	Lw	ChipDryer		0	0	0							0	(none)			
Chip Dryer System		Exhaust	92.6	92.6	92.6	70.2	70.2	70.2	Lw	ChipDryerExhaust		0	0	0							0	(none)			
Dry Hammer Mill Bldg		DHamMill	109.9	109.9	109.9	84.4	84.4	84.4	Lw	HammerMill		0	0	0							0	(none)			
Green Hammer Mill Bldg		GHamMill	109.9	109.9	109.9	86.6	86.6	86.6	Lw	HammerMill		0	0	0							0	(none)			
Pellet Mill Bldg		PelMill	96.9	96.9	96.9	71.2	71.2	71.2	Lw	PelletMill		0	0	0							0	(none)			
Stacker/Reclaimer		S/R	106.5	106.5	106.5	80	80	80	Lw	StackerReclaimer		0	0	0							0	(none)			
Log Infeed Deck		Infeed	95	95	95	70.7	70.7	70.7	Lw	LogInfeedDeck		0	0	0							0	(none)			

Line Sources

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	Day	Special	Night				Number			Speed
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft^2)	(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(mph)
ConveyorPath		Conveyor	92.2	92.2	92.2	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	92.3	92.3	92.3	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	87.4	87.4	87.4	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	87.4	87.4	87.4	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
ConveyorPath		Conveyor	86.6	86.6	86.6	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
mobile log crane - north		MLCN	118.5	118.5	118.5	93.9	93.9	93.9	Lw	106		0	0	0			-3				0	(none)				
loading train	-	LDTRN	112.1	112.1	112.1	79	79	79	Lw'	TRAIN		0	0	0			60				0	(none)				
pellet loader		PLDR	86.3	86.3	86.3	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
truck dump conveyor - covered/clad		TDCONV	86.2	86.2	86.2	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
mill bldg 2 silos conveyor - covered/cl		M2SCONV	88.7	88.7	88.7	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
GHM 2 dryer conveyor - covered/clac		GMH2DC	89.5	89.5	89.5	66.6	66.6	66.6	Lw'	ConveyorPath		0	0	0			15				0	(none)				
mobile log crane - south		MLCS	118.5	118.5	118.5	91.1	91.1	91.1	Lw	106		0	0	0			-3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	72.2	72.2	72.2	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	79.1	79.1	79.1	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	79.9	79.9	79.9	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	101.2	101.2	101.2	75.1	75.1	75.1	Lw	IdlingTruck		0	0	0			-18.3				0	(none)				
8hr Truck Scenario		TruckTrip	98.2	98.2	98.2	70.5	70.5	70.5	Lw	IdlingTruck		0	0	0			-15.3				0	(none)				
8hr Truck Scenario		TruckTrip	98.2	98.2	98.2	70.5	70.5	70.5	Lw	IdlingTruck		0	0	0			-15.3				0	(none)				

Barriers

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height	
			left	right		horz.	vert.	Begin	End
					(ft)	(ft)	(ft)	(ft)	(ft)

Buildings

Name	M.	ID	RB	Residents	Absorptior	Height Begin (ft)	
South Building		SBuild	x	0		20	r
South Building		SBuild	x	0		20	r
Pellet Mill Bldg		PMBuild	x	0			
Dry Hammer Mill Bldg		DHM	x	0			
Green Hammer Mill Bld		GHM	x	0		40	r
Office Bldg		Office	x	0		20	r
Maintenance Bldg		MaintBldg	x	0		20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r
log storage stack		LSS		0	0.25	20	r

Cylinders

Name	M.	ID	Absorptior	Center x (ft)	y (ft)	Radius (ft)	Height (ft)	
Pellet Silos		Silo		4812.17	5447.73	33.49	100	r
Pellet Silos		Silo		4874.89	5477.03	35.12	100	r
Pellet Silos		Silo		4939.63	5507.14	36.75	100	r

Embankments

Name	M.	ID	rel. Height (ft)	Slope 1:00	Top Width (ft)
chip storag		CSP	55	1.5	0
fuel storag		FSP	50	1.5	0

Sound Levels (local)

Name	ID	Type	Oktave Spectrum (dB)											Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
mobile telescopic crane	MTC	Lw (c)			115	110	106	102	99	95	88	80	104.7	116.9	DEFRA update - 2005 - Table 4 - item 39
Debarking Drum	Debarking[	Lw	A	53.6	60.8	71.9	78.4	82.8	83	81.2	1	-1.1	87.8	96.4	from plot 3a in Lumber Mill Noise and its Control
Log Chipper	DrumChipp	Lw	A	50.6	61.8	75.9	93.4	98.8	103	104.2	96	89.9	107.9	109	from plot 3h (chipper tender) Lumber Mill Noise
Stacker/Reclaimer	StackerRec	Lw	A	70.6	84.8	90.9	95.4	101.8	101	98.2	97	85.9	106.5	115.5	from Table 4.37 in EEI EPPENG
Dryer System	ChipDryer	Lw		119	103	92	81	70	65	60	56	51	83.1	119.1	83 dBA PWL per Whitesand project study, Table 1
Dryer System	ChipDryerE	Lw		121	110	102	94	87	84	79	75	80	92.6	121.4	93 dBA PWL per Whitesand project study, Table 1
Green Hammer Mill Tower, Dry Hammer Mill Bldg	HammerM	Lw	A			106	104	102	99	97	95		109.9	122.7	EEI EPPENG Table 4.38 raised overall to 110 dBA
Log Infeed Deck	LogInfeedE	Lw	A							95			95	93.8	per Whitesand study, Table 1
Truck Dumps	TruckDum	Lw	A	89.6	88.8	84.9	81.4	76.8	75	73.2	73	72.9	93.5	129.2	per Whitesand study, Table 1
Fuel Screening & Hog Tower, Residuals Screening To	TransferTo	Lw	A	76.6	89.8	99.9	105.4	108.8	111	110.2	104	94.9	115.8	122.6	from EEI EPPENG, Table 4.34
Pellet Mill Bldg	PelletMill	Lw		0	0	109	100	92	86	83	81	0	96.9	109.6	per Whitesand study, Table 1, 85 dBA at 1m
Truck Scales	IdlingTruck	Lw		96	87	88	86	80	77	72	63	55	82.9	97.5	one truck (based on Charles M. Salter, 2min idle)
Conveyor Path A-weighted per each meter of length	ConveyorP	Lw	A	40	52	66	73	77	77	73	61	51	81.6	88	per Figure 9 from Heggies Brown paper
Train - "4036" at 50 feet	TRAIN	Lw (c)		31.6	133.6	128.6	124.6	128.6	128.6	127.6	127.6	123.6	139	150.7	EPA-550/9-74-007