

# Appendix N

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## Noise Data and Photographs

General Construction analysis

R1 Construct Pipelines

Source	Ref level	ref dist.	rec. dist.	rec. level	level round
Truck	88	50	71	84.95423	85
Backhoe	80	50	71	76.95423	77
combined				85.59315	<b>86</b>

R1 Construct Residences

Source	Ref level	ref dist.	rec. dist.	rec. level	level round
truck	88	50	52	87.65933	88
grader	85	50	52	84.65933	85
combined				89.42368	<b>89</b>

R2Construct Road

Source	Ref level	ref dist.	rec. dist.	rec. level	level round
paver	89	50	66	86.58852	87
compactor	82	50	66	79.58852	80
combined				87.37862	<b>87</b>

R3 Construct Road

Source	Ref level	ref dist.	rec. dist.	rec. level	level round
paver	89	50	68	86.32922	86
compactor	82	50	68	79.32922	79
combined				87.11932	<b>87</b>

**Noise Measurement Data: SCARF Project**

Receiver	Time	Date	Duration	Leq	Lmax	Lmin	L10	L50	L90
ST1	15:10 - 15:30	2/26/2013	20 Minutes	43	57	37	45	41	38
ST2	15:45 - 16:00	2/26/2013	15 Minutes	53	62	50	54	52	51
ST3	16:25 - 16:45	2/26/2013	15 Minutes	44	61	40	41	45	43
ST4	10:30 - 10:50	2/27/2013	20 Minutes	55	65	54	55	55	54
ST5	11:05 - 11:25	2/27/2013	20 Minutes	48	67	44	49	47	45
ST6	12:00 - 12:20	2/27/2013	20 Minutes	38	52	30	41	34	32
ST7	12:45 - 1:10	2/27/2013	25 Minutes	41	56	30	44	39	35
LT1	14:45 - 14:45	2/26/2013 - 2/27/2013	24 Hours	46	80	39	46	43	42

LT1



ST1



ST2



ST3



ST4



ST5



ST6



ST7




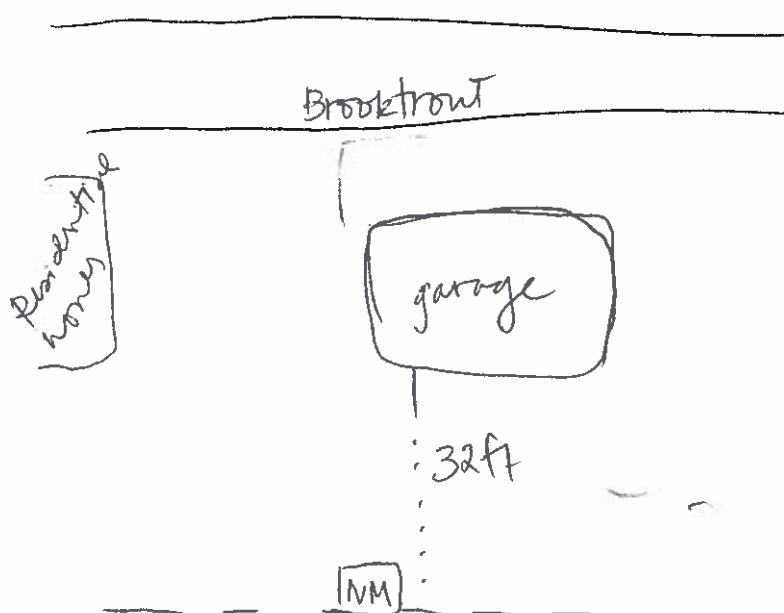
# URS Acoustics and Noise Control Practice

## FIELD NOISE MEASUREMENT DATA FORM

Project Name: SCARF Project #: \_\_\_\_\_ Date: 2/26 Page 1 of 8  
 Monitoring Location: 24-hr noise monitor Analyst: \_\_\_\_\_

<b>Sound Level Meter</b> Model #: <u>720 <del>0436</del></u> Serial #: <u>0436</u> Weighting: <u>A/C</u> / Flat Response: <u>Slow</u> / Fast / Impl Windscreen: <u>Yes</u> / No (explain)	<b>Field Calibration</b> Model #: <u>Cal 200</u> Serial #: <u>3704</u> Calibration Level (dBA): 94 / <u>114</u> Pre-Test <u>114</u> dBA Post-Test <u>113.8</u> dBA	<b>Weather Data</b> Model #: <u>skymaster</u> Serial #: <u>03386</u> Wind: Steady/Gusty/ <u>Calm</u> Precipitation: Yes (explain) / <u>No</u> Avg Wind Speed/Direction: _____ Temp (°F): <u>71.8</u> RH (%): <u>39.2</u> Bar Psr (Hg): <u>29.70</u> Cloud Cover (%): <u>0</u>
Topo: Flat / Hilly Terrain: Hard/Soft/Mixed/Snow		<b>GPS Coordinates (at SLM location)*</b> <u>36°59'14" N, 119°43'2" W</u>

ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	<u>2:45 PM</u>								<u>3:04 PM siren</u>
	<u>3:04</u>								

Roadway Name/Dir Speed (post/obs)* Number of Lanes Width (pave/row) 1- or 2- way Grade Bus Stops Stoplights Motorcycles Automobiles Medium Trucks Heavy Trucks Buses Count duration	compass 	Site Diagram: 
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# - note coordinate system \* - Speed estimated by Radar / Driving / Observation  
 Photos Taken? Yes/No  
 Additional Notes/Comments:  
 Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/insects  
 Additional Notes and Sketches on Reverse  
gps unit: 115 0258146 4094905


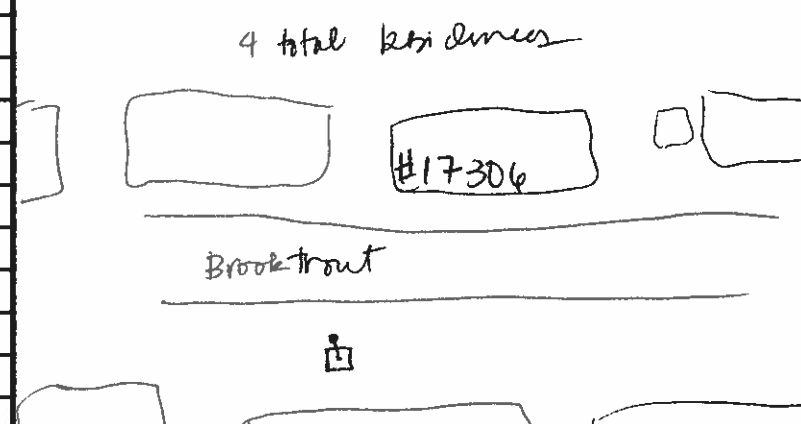
# URS Acoustics and Noise Control Practice FIELD NOISE MEASUREMENT DATA FORM

Project Name: SCARF Project #: \_\_\_\_\_ Date: \_\_\_\_\_ Page 2 of 8

Monitoring Location: Site 1 Short term - Brooktrout Analyst: \_\_\_\_\_

<p><b>Sound Level Meter</b></p> <p>Model #: <u>820</u></p> <p>Serial #: <u>1414</u></p> <p>Weighting: A / C / Flat</p> <p>Response: Slow / Fast / Impl</p> <p>Windscreen : Yes / No (explain)</p> <p>Topo: Flat / Hilly</p> <p>Terrain: Hard/Soft/Mixed/Snow</p>	<p><b>Field Calibration</b></p> <p>Model #: <u>Cal 200</u></p> <p>Serial #: <u>3704</u></p> <p>Calibration Level (dBA): 94 / <u>(114)</u></p> <p>Pre-Test <u>114</u> dBA</p> <p>Post-Test _____ dBA</p> <p><b>GPS Coordinates (at SLM location)*</b></p> <p><u>115 025 8234 ; 4096 914</u></p>	<p><b>Weather Data</b></p> <p>Model #: <u>Asymetric</u></p> <p>Serial #: <u>03386</u></p> <p>Wind: Steady/Gusty/<u>Calm</u></p> <p>Precipitation: Yes (explain) / <u>No</u></p> <p>Avg Wind Speed/Direction: _____</p> <p>Temp (°F): <u>71.8</u> RH (%): <u>38.2</u></p> <p>Bar Psr (Hg): <u>29.70</u> Cloud Cover (%): <u>8</u></p>
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ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	<u>15:10</u>		<u>41.3</u>						<u>Dogs Barking (small dog)</u>
	<u>15:15</u>		<u>43.7</u>						<u>heavy truck passing through</u>
	<u>15:20</u>		<u>41.5</u>						<u>hatchery</u>
	<u>15:25</u>		<u>43.7</u>						<u>-internal removed -</u>
									<u>conversation from nearby</u>
									<u>Truck leaving/pulling</u>

<p>Roadway Name/Dir</p> <p>Speed (post/obs)*</p> <p>Number of Lanes</p> <p>Width (pave/row)</p> <p>1- or 2- way</p> <p>Grade</p> <p>Bus Stops</p> <p>Stoplights</p> <p>Motorcycles</p> <p>Automobiles</p> <p>Medium Trucks</p> <p>Heavy Trucks</p> <p>Buses</p> <p>Count duration</p>	<p><u>compass</u></p> 	<p><b>Site Diagram:</b></p> <p><u>4 total residences</u></p> 
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# - note coordinate system \* - Speed estimated by Radar / Driving / Observation

Photos Taken? Yes/No

Additional Notes/Comments:

Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs parking/birds vocalizing/insects

Additional Notes and Sketches on Reverse




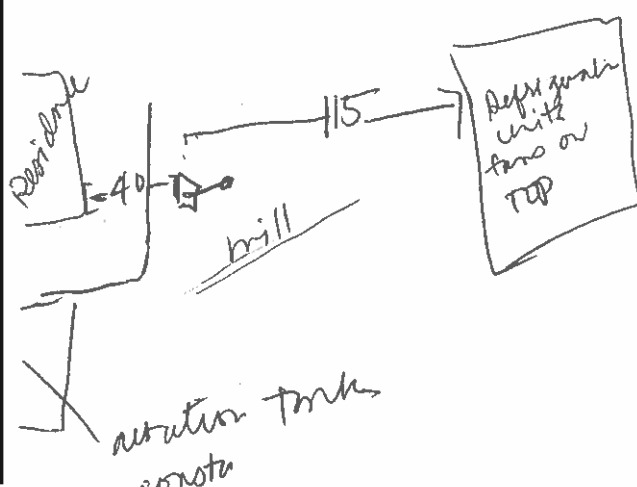
# URS Acoustics and Noise Control Practice FIELD NOISE MEASUREMENT DATA FORM

Project Name: SCARF Project #: \_\_\_\_\_ Date: \_\_\_\_\_ Page 3 of 8

Monitoring Location: ST 2 - Aeration Tanks Analyst: \_\_\_\_\_

<u>Sound Level Meter</u> Model #: <u>820</u> Serial #: <u>1414</u> Weighting: A / C / Flat Response: Slow / Fast / Impl Windscreen: Yes / No (explain)	<u>Field Calibration</u> Model #: <u>Cal 200</u> Serial #: <u>3704</u> Calibration Level (dBA): 94 / 114 Pre-Test _____ dBA Post-Test _____ dBA	<u>Weather Data</u> Model #: <u>Skywatcher</u> Serial #: <u>09386</u> Wind: Steady/Gusty/ <u>Calm</u> Precipitation: Yes (explain) / <u>No</u> Avg Wind Speed/Direction: <u>0</u> Temp (°F): <u>71.8</u> RH (%): <u>38.2</u> Bar Psr (Hg): _____ Cloud Cover (%): _____
Topo: Flat / Hilly Terrain: Hard/Soft/Mixed/Snow	<u>GPS Coordinates (at SLM location)*</u> <u>115 025 8995; 409 7042</u>	

ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	15:45		53.8						noise at ST2 is predominantly from the aeration tanks -constantly whirring
	:50		51.4						
	:55		52.1						

Roadway Name/Dir Speed (post/obs)* Number of Lanes Width (pave/row) 1- or 2- way Grade Bus Stops Stoplights Motorcycles Automobiles Medium Trucks Heavy Trucks Buses Count duration	<u>compass</u> 	<u>Site Diagram:</u> 
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# - note coordinate system \* - Speed estimated by Radar / Driving / Observation

Photos Taken? Yes/No

Additional Notes/Comments:

Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/Insects  
 Additional Notes and Sketches on Reverse

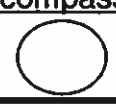
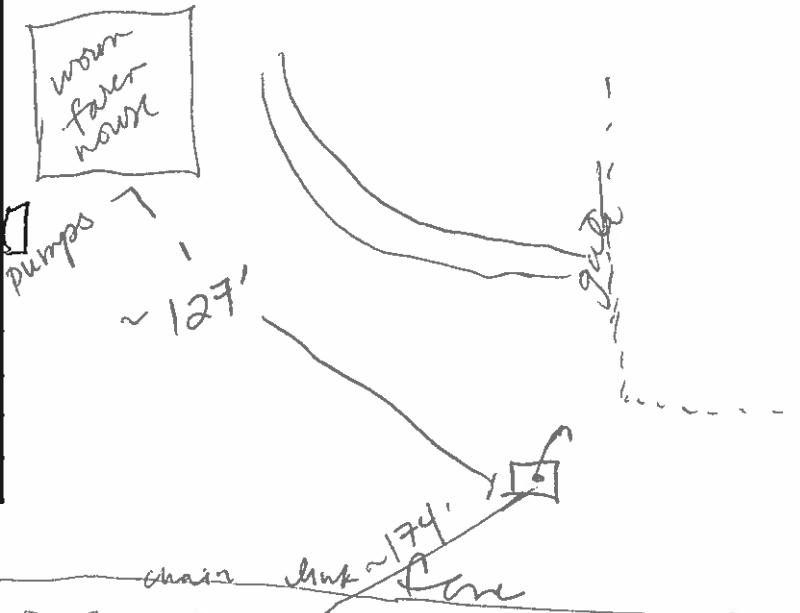
**URS Acoustics and Noise Control Practice  
FIELD NOISE MEASUREMENT DATA FORM**

Project Name: SCARF Project #: \_\_\_\_\_ Date: \_\_\_\_\_ Page 4 of 9

Monitoring Location: ST3 - Future Residence site outside Analyst: \_\_\_\_\_

<u>Sound Level Meter</u> Model #: <u>620</u> Serial #: <u>1414</u> Weighting: A / C / Flat Response: Slow / Fast / Impl Windscreen : Yes / No (explain)	<u>Field Calibration</u> Model #: <u>cal 200</u> Serial #: <u>3704</u> Calibration Level (dBA): 94 / 114 Pre-Test _____ dBA Post-Test _____ dBA	<u>Weather Data</u> Model #: <u>Skymate</u> Serial #: <u>03386</u> Wind: Steady/Gusty/Calm Precipitation: Yes (explain) / No Avg Wind Speed/Direction: _____
Topo: Flat / Hilly Terrain: Hard/Soft/Mixed/Snow	<u>GPS Coordinates (at SLM location)*</u> <u>113 0258107 4096764</u>	Temp (°F): _____ RH (%): _____ Bar Psr (Hg): _____ Cloud Cover (%): _____

ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
~	4:25								majority of noise from pumps & wildlife - birds, frogs, insects
	11:25		44.8						
	30		43.5						
	35		47.6						man talking w/ questions
	40		43.3						

<u>Roadway Name/Dir</u>			<u>compass</u> 	<u>Site Diagram:</u> 
<u>Speed (post/obs)*</u>				
<u>Number of Lanes</u>				
<u>Width (pave/row)</u>				
<u>1- or 2- way</u>				
<u>Grade</u>				
<u>Bus Stops</u>				
<u>Stoplights</u>				
<u>Motorcycles</u>				
<u>Automobiles</u>				
<u>Medium Trucks</u>				
<u>Heavy Trucks</u>				
<u>Buses</u>				
<u>Count duration</u>				

# - note coordinate system Speed estimated by Radar / Driving / Observation  
 Photos Taken?  Yes /  No  
 Additional Notes/Comments:  
 Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/insects  
 Additional Notes and Sketches on Reverse


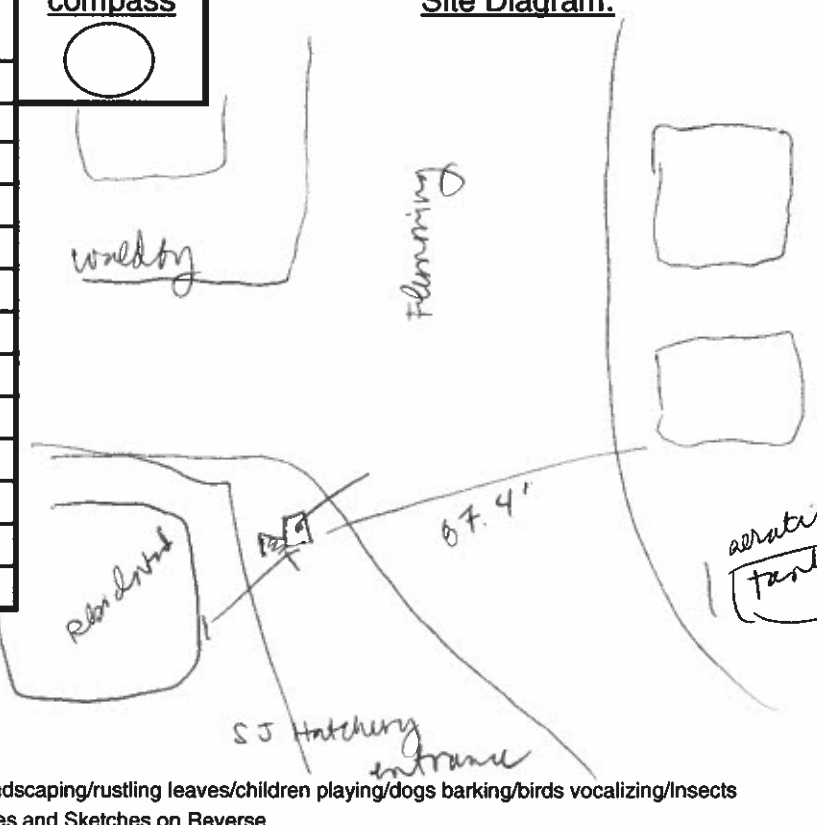
**URS Acoustics and Noise Control Practice**  
**FIELD NOISE MEASUREMENT DATA FORM**

2

Project Name: SCARF Project #: \_\_\_\_\_ Date: 2/24 Page 5 of 8  
 Monitoring Location: ST4 - Short term - Walldby / Flemming Analyst: \_\_\_\_\_

<u>Sound Level Meter</u>	<u>Field Calibration</u>	<u>Weather Data</u>
Model #: <u>820</u>	Model #: <u>Cal 200</u>	Model #: <u>Skymaster</u>
Serial #: <u>1414</u>	Serial #: <u>90823704</u>	Serial #: _____
Weighting: <u>A/C/Flat</u>	Calibration Level (dBA): <u>94 / (114)</u>	Wind: <u>Steady/Gusty/Calm</u>
Response: <u>Slow/Fast/Imp</u>	Pre-Test <u>114</u> dBA	Precipitation: <u>Yes (explain) / No</u>
Windscreen: <u>(Yes) No (explain)</u>	Post-Test _____ dBA	Avg Wind Speed/Direction: <u>0.0</u>
Topo: <u>Flat / Hilly</u>	<u>GPS Coordinates (at SLM location)*</u>	Temp (°F): <u>63.2</u> RH (%): <u>0.0</u>
Terrain: <u>Hard/Soft/Mixed/Snow</u>	<u>11S 0258429 : 9097080</u>	Bar Psr (Hg): <u>29.94</u> Cloud Cover (%): <u>01%</u>

ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	<u>10:30</u>		<u>54.6</u>						<u>Aeration Tanks constant / car</u>
	<u>10:35</u>		<u>54.6</u>						<u>1 car</u>
	<u>10:40</u>		<u>54.6</u>						<u>1 car</u>
	<u>10:45</u>		<u>54.3</u>						<u>1 car</u>

<u>Roadway Name/Dir</u>		<u>compass</u>	<u>Site Diagram:</u>
<u>Speed (post/obs)*</u>			
<u>Number of Lanes</u>			
<u>Width (pave/row)</u>			
<u>1- or 2- way</u>			
<u>Grade</u>			
<u>Bus Stops</u>			
<u>Stoplights</u>			
<u>Motorcycles</u>			
<u>Automobiles</u>			
<u>Medium Trucks</u>			
<u>Heavy Trucks</u>			
<u>Buses</u>			
<u>Count duration</u>			

# - note coordinate system \* - Speed estimated by Radar / Driving / Observation

Photos Taken? Yes/No  
 Additional Notes/Comments:

Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/insects  
 Additional Notes and Sketches on Reverse

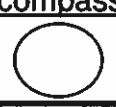
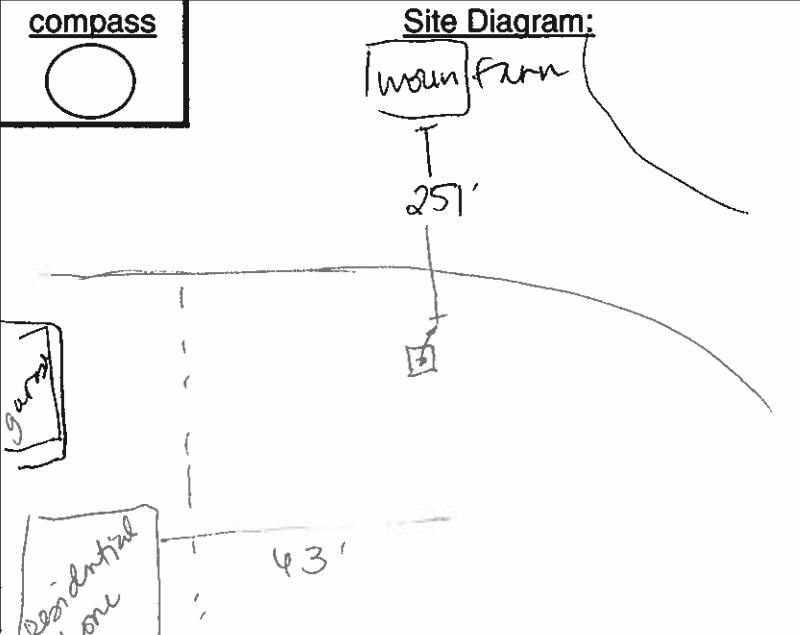
# URS Acoustics and Noise Control Practice FIELD NOISE MEASUREMENT DATA FORM

Project Name: \_\_\_\_\_ Project #: \_\_\_\_\_ Date: \_\_\_\_\_ Page 1 of 1

Monitoring Location: ST-5 Residential area off grant Analyst: \_\_\_\_\_

<u>Sound Level Meter</u> Model #: <u>820</u> Serial #: <u>1414</u> Weighting: <u>A/C/Flat</u> Response: <u>Slow</u> / Fast / Impl Windscreen: Yes / No (explain)	<u>Field Calibration</u> Model #: <u>cal 200</u> Serial #: <u>3704</u> Calibration Level (dBA): <u>94</u> / <u>114</u> Pre-Test <u>114</u> dBA Post-Test _____ dBA	<u>Weather Data</u> Model #: <u>skymark</u> Serial #: _____ Wind: Steady/Gusty/Calm Precipitation: Yes (explain) / No Avg Wind Speed/Direction: _____ Temp (°F): _____ RH (%): _____ Bar Psr (Hg): _____ Cloud Cover (%): _____
Topo: Flat / Hilly Terrain: Hard/Soft/Mixed/Snow	<u>GPS Coordinates (at SLM location)*</u> <u>115 0258130-4094733</u>	

ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	11:05		48.4						majority of noise from birds, water running, talking
	11:10		46.2						
	11:15		48.0						
	11:20		47.6						

Roadway Name/Dir Speed (post/obs)* Number of Lanes Width (pave/row) 1- or 2- way Grade Bus Stops Stoplights Motorcycles Automobiles Medium Trucks Heavy Trucks Buses Count duration	<u>compass</u> 	<u>Site Diagram:</u> 
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# - note coordinate system \* - Speed estimated by Radar / Driving / Observation

Photos Taken? Yes/No

Additional Notes/Comments:

grant

Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/insects

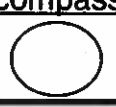
Additional Notes and Sketches on Reverse

# URS Acoustics and Noise Control Practice FIELD NOISE MEASUREMENT DATA FORM

Project Name: SCARF Project #: \_\_\_\_\_ Date: \_\_\_\_\_ Page 7 of 8  
 Monitoring Location: ST-6 - Campground @ Lost Hills 19-20<sup>th</sup> Analyst: \_\_\_\_\_

<u>Sound Level Meter</u>	<u>Field Calibration</u>	<u>Weather Data</u>
Model #: <u>620</u>	Model #: <u>cal200</u>	Model #: <u>skymeter</u>
Serial #: <u>1414</u>	Serial #: <u>3704</u>	Serial #: <u>03336</u>
Weighting: <u>A/C/Flat</u>	Calibration Level (dBA): <u>94/114</u>	Wind: <u>Steady/Gusty/Calm</u>
Response: <u>Slow/Fast/Impl</u>	Pre-Test <u>114</u> dBA	Precipitation: <u>Yes (explain) / No</u>
Windscreen: <u>Yes / No (explain)</u>	Post-Test <del>##</del> <del>##</del> dBA	Avg Wind Speed/Direction: <u>5 mph</u>
Topo: <u>Flat / Hilly</u>	<u>GPS Coordinates (at SLM location)*</u>	Temp (°F): _____ RH (%): _____
Terrain: <u>Hard/Soft/Mixed/Snow</u>	<u>11S 6257692 - 4096575</u>	Bar Psr (Hg): _____ Cloud Cover (%): _____

ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	<u>12:00</u>		<u>37.2</u>						<del>10:00</del>
	<u>12:05</u>		<u>37.1</u>						<u>None from squirrels</u>
	<u>12:10</u>		<u>38.3</u>						<u>birds</u>
	<u>12:15</u>		<u>37.9</u>						

Roadway Name/Dir		<u>compass</u>	<div style="text-align: center;">  </div> <p><u>Site Diagram:</u></p> <p><u>project area</u> <u>slope</u></p> <p><u>Restrooms</u></p> <p><u>picnic</u></p> <p><u>75"</u></p> <p><u>parking</u> <u>20</u></p> <p><u>parking</u> <u>19</u></p> <p><u>Lost Hill campground</u></p>
Speed (post/obs)*			
Number of Lanes			
Width (pave/row)			
1- or 2- way			
Grade			
Bus Stops			
Stoplights			
Motorcycles			
Automobiles			
Medium Trucks			
Heavy Trucks			
Buses			
Count duration			

# - note coordinate system \* - Speed estimated by Radar / Driving / Observation  
 Photos Taken? Yes/No  
 Additional Notes/Comments:

Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/insects  
 Additional Notes and Sketches on Reverse

# URS Acoustics and Noise Control Practice

## FIELD NOISE MEASUREMENT DATA FORM


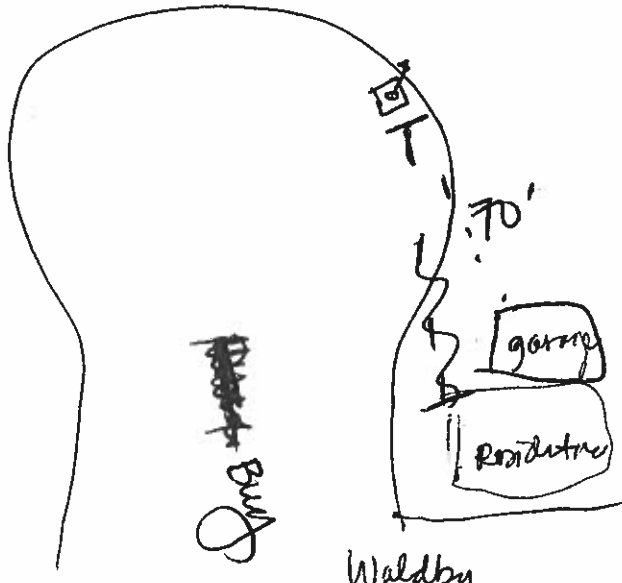
Project Name: SCARP Project #: \_\_\_\_\_ Date: \_\_\_\_\_ Page 8 of 8

Monitoring Location: ST-7 Waldby & Burg Analyst: \_\_\_\_\_

<u>Sound Level Meter</u> Model #: <u>820</u> Serial #: <u>1414</u> Weighting: <u>A/C</u> / Flat Response: <u>Slow</u> / Fast / Impl Windscreen: Yes / No (explain)	<u>Field Calibration</u> Model #: <u>Cal 200</u> Serial #: <u>9704</u> Calibration Level (dBA): <u>94</u> / <u>114</u> Pre-Test <u>114</u> dBA Post-Test _____ dBA	<u>Weather Data</u> Model #: <u>Symetrix</u> Serial #: <u>03386</u> Wind: Steady/Gusty/ <u>Calm</u> Precipitation: Yes (explain) / <u>No</u> Avg Wind Speed/Direction: <u>0.0</u>
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Topo: <u>Flat</u> / Hilly Terrain: Hard/Soft/ <u>Mixed</u> /Snow	<u>GPS Coordinates (at SLM location)*</u> <u>115 0257980 4094319</u>	Temp (°F): _____ RH (%): _____ Bar Psr (Hg): _____ Cloud Cover (%): _____
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ID	Start Time	Stop Time	L <sub>eq</sub>	L <sub>min</sub>	L <sub>max</sub>	L <sub>10</sub>	L <sub>50</sub>	L <sub>90</sub>	Notes/Events
	<u>12:45</u>		<u>39.3</u>						<u>intermittent barking from noise</u>
	<u>12:50</u>		<u>41.8</u>						
	<u>12:55</u>		<u>42.5</u>						
	<u>1:00</u>		<u>42.9</u>						<u>- people walking/talking</u>
	<u>1:05</u>		<u>39.2</u>						

Roadway Name/Dir Speed (post/obs)* Number of Lanes Width (pave/row) 1- or 2- way Grade Bus Stops Stoplights Motorcycles Automobiles Medium Trucks Heavy Trucks Buses Count duration		<u>compass</u> 	Site Diagram: 
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# - note coordinate system \* - Speed estimated by Radar / Driving / Observation

Photos Taken? Yes/No

Additional Notes/Comments:

Other Noise Sources: distant: aircraft/roadway traffic/trains/landscaping/rustling leaves/children playing/dogs barking/birds vocalizing/Insects  
 Additional Notes and Sketches on Reverse