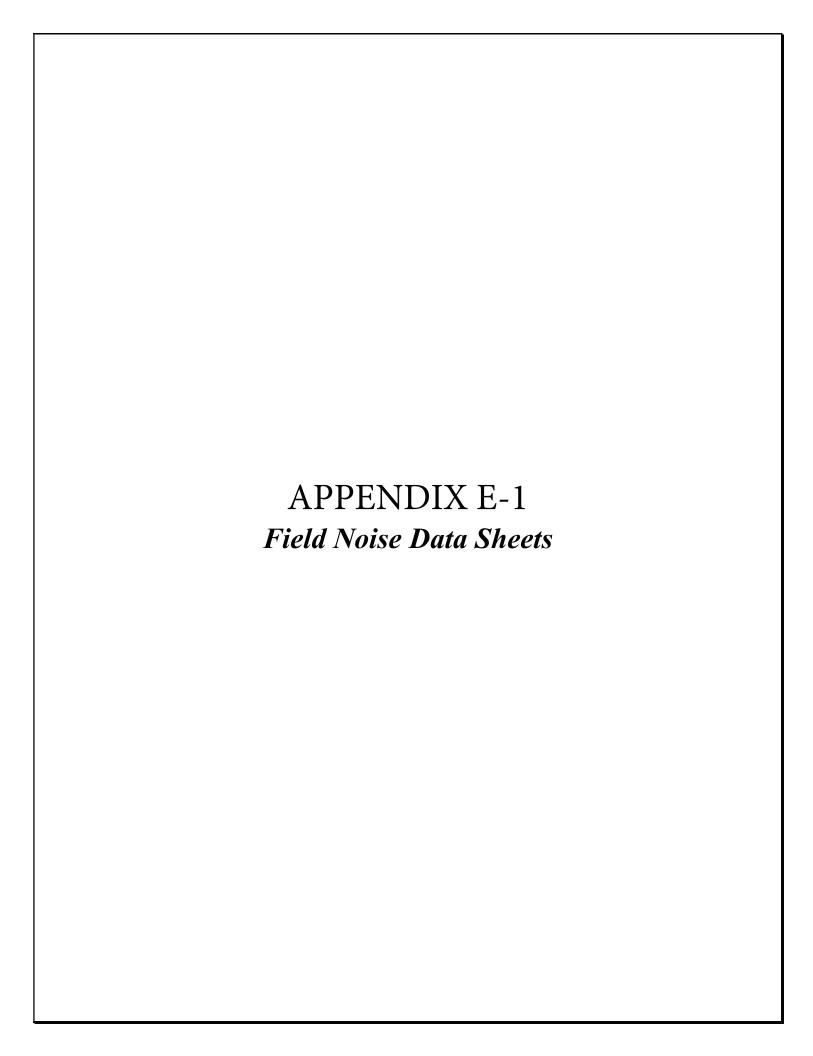
# APPENDIX E

Noise



	PROJECT LADI	NP DE	SUTU	STOM	WE TA	uks	PROJECT	# 106	49-2	7
	SITE ID  SITE ADDRESS   START DATE   S/9/		E SOTO P			4, CA	OBSERVE	R(S) PE	TE	VITAR
	START TIME 10:38		END TIME		SPM		-			
	METEOROLOGICAL CO TEMP 72 WINDSPD SKY	F MPH CLEAR	HUMIDITY DIR. N OVRCAST	NE S SE PRTLY		W NW FOG	<b>WIND</b> RAIN	CALM VARIABLE	LIGHT STEADY	MODERATE GUSTY
	ACOUSTIC MEASUREN MEAS. INSTRUMENT CALIBRATOR	Pic	WAC	SLM.			TYPE 1	(2)		SERIAL # 130 9270 4 SERIAL # 460151
	CALIBRATION CHECK		PRE-TEST		_dba spl		POST-TES	Т	_dba spl	WINDSCRN YES
	SETTINGS	A-WTD	SLOW	FAST	FRONTAL	RANDOM	ANSI	OTHER:		
1-	REC.# BEGIN 2 (Sナ1) 10%49	END 11:04	S7.6	Lmax 68.5	53.1	L90	L50	L10	OTHER (S	SPECIFY METRIC
				_		-	_			
	COMMENTS READING TAKE	WAT	NORMY	1EST (	ORNER	OFM	enant :	SIERNA	ONLE	J SCHOOL
3	CAMPUS MITHERE	<b>HAMPANA</b>	(SOUTH	1 510E	OF P	LULICT	The Course			
	POUMANT NOIS.	e son	t-TN9	YFIC (	IN DE	SUTU	AUE.			-
	COLIDCE INICO AND TO	VEELC COLLE	UTC							
		NOISE SOLVY TYPE: ATTON: INB/EB  RADAR / DRI	JRCE S PMALT MIN SB/WB	SPEE NB/EB	AIRCRAFT ED SB/WB	RAIL DIST. TO F  IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	SUNT 2 RDWY 2) 7/2 AMD	NB/EB	OTHER: Px 23 MIN SB/WB	DESUTO TO CUNS EDGE SPEED NB/EB SB/WB
	PRIMARY ROADWA TRAFFIC COUNT DURA: DIRECTION AUTOS MED TRKS OUNT DURA: HVY TRKS OUNT D	NOISE SOL Y TYPE: A TION: N NB/EB S RADAR / DRI NS SAY:	MIN SB/WB  VING THE PACE	SPEE NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  OGS BIRDS	MIN SB/WB	SPEED NB/EB SB/WB
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION THE AUTOS HVY TRKS BUSES MOTRCLS SPEEDS ESTIMATED BY: POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:	NOISE SOL Y TYPE: A TION: I NB/EB  RADAR / DRI NS SAY: BACKGROUN PLAYING I	MIN SB/WB  VING THE PACE	SPEE NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  NB/EB  DGS  BIRDS  OW)  DISTD	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION AUTOS MED TRKS WED TRKS BUSES MOTRCLS SPEEDS ESTIMATED BY: POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:  DESCRIPTION / SKETCH TERRAIN HAR	NOISE SOL Y TYPE: A TION: I NB/EB RADAR / DRI NS SAY: BACKGROUN PLAYING I	MIN SB/WB  VING THE PACE  DIST. AII  DIST. CONVRS	SPEE NB/EB CE RCRAFT RUITNS / YELLIN	SB/WB SB/WB SSTLING LEAN NG DIST. TF	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  OGS BIRDS	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION AUTOS HVY TRKS BUSES MOTRCLS SPEEDS ESTIMATED BY: POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:	NOISE SOL Y TYPE: A TION: I NB/EB RADAR / DRI NS SAY: BACKGROUN PLAYING I	VING THE PAC	SPEE NB/EB  CE  RCRAFT RU  TNS/YELLIN  AT OTHE  7; 12.6	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  NB/EB  DGS  BIRDS  OW)  DISTD	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION OF THE AUTOS HVY TRKS WOTRCLS SPEEDS ESTIMATED BY: I POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:  DESCRIPTION / SKETCH TERRAIN PHOTOS 1265	NOISE SOL Y TYPE: A TION: INB/EB RADAR / DRI NS SAY: BACKGROUN PLAYING IND D SOFT	MIN SB/WB  VING THE PACE  DIST. AII  DIST. CONVRS	SPEE NB/EB  CE  RCRAFT RU  TNS/YELLIN  AT OTHE  7; 12.6	SB/WB SB/WB SSTLING LEAN NG DIST. TF	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  NB/EB  DGS  BIRDS  OW)  DISTD	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION OF THE AUTOS HVY TRKS WOTRCLS SPEEDS ESTIMATED BY: I POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:  DESCRIPTION / SKETCH TERRAIN PHOTOS 1265	NOISE SOL Y TYPE: A TION: INB/EB RADAR / DRI NS SAY: BACKGROUN PLAYING IND D SOFT	MIN SB/WB  VING THE PACE  DIST. AII  DIST. CONVRS	SPEE NB/EB  CE  RCRAFT RU  TNS/YELLIN  AT OTHE  7; 12.6	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  NB/EB  DGS  BIRDS  OW)  DISTD	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION OF THE AUTOS HVY TRKS WOTRCLS SPEEDS ESTIMATED BY: I POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:  DESCRIPTION / SKETCH TERRAIN PHOTOS 1265	NOISE SOL Y TYPE: A TION: INB/EB RADAR / DRI NS SAY: BACKGROUN PLAYING IND D SOFT	MIN SB/WB  VING THE PACE  MIXED FL  S 126	SPEE NB/EB  CE  RCRAFT RU  TNS/YELLIN  AT OTHE  7; 12.6	JSTLING LEANG DIST. TE	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  NB/EB  DGS  BIRDS  OW)  DISTD	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL
	PRIMARY ROADWA TRAFFIC COUNT DURA DIRECTION OF THE AUTOS HVY TRKS WOTRCLS SPEEDS ESTIMATED BY: I POSTED SPEED LIMIT SIG OTHER NOISE SOURCES ( DIST. KIDS OTHER:  DESCRIPTION / SKETCH TERRAIN PHOTOS 1265	NOISE SOL Y TYPE: A TION: INB/EB RADAR / DRI NS SAY: BACKGROUN PLAYING IND D SOFT	MIN SB/WB  VING THE PACE  MIXED FL	SPEE NB/EB  CE  RCRAFT RU  TNS/YELLIN  AT OTHE  7; 12.6	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2  COUNT 2  COUNT 2  COUNT 3  COU	NB/EB  NB/EB  DGS  BIRDS  OW)  DISTD	MIN SB/WB  DIST. IND	SPEED NB/EB SB/WB  WSTRIAL

NUJALOI ST.

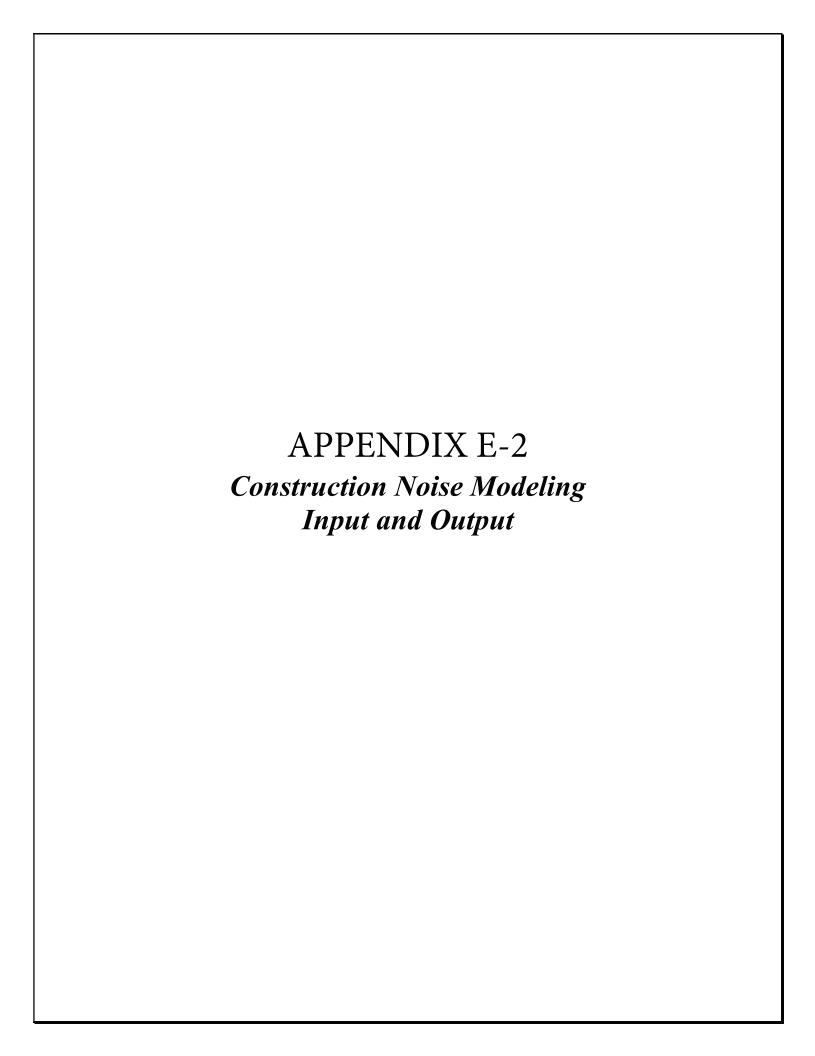
SITE ID	1730	NP DE	SUTO	STOW	WE TAM	JAS	PROJECT	# 106	49-2-	1
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	E 5/9/		END DATE		500					
START TIM	E 10:36	13-1	END TIME	1271	> 111					
METEORO	LOGICAL CO	NDITIONS						~		
TEMP	70	F	HUMIDITY		% R.H.		WIND	(CALM)	LIGHT	MODERATE
WINDSPD		MPH	DIR. N	NE S SE	s sw	W NW		VARIABLE	STEADY	GUSTY
SKY	SUNNO	CLEAR	OVRCAST	PRTLY		FOG	RAIN			
700									*	
ACOUSTIC	MEASUREN	MENTS O.			00					
MEAS. INS	TRUMENT	PIC	cculo	SLM	-73		TYPE :	1 (2)		SERIAL # 130 9270 40
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CALIBRATI	ON CHECK		PRE-TEST	-	dBA SPL		POST-TES	51	_ GRA SPL	WINDSCRN YES
SETTINGS		A-WTD	(SLOW)	FAST	FRONTAL	RANDOM	ANSI	OTHER:		
3L11ING3		A-WID	SLOW	1731	MONTAL	WWWDOW	7.11.51	O THEIR		
REC.#	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (S	SPECIFY METRIC
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COMMENT	TAKE	10-	IPST	= 10 01	ECIE	INA CA	Ntal	counce.	CAMP	OUS, IN PARTUR
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INAFFIC C		N NB/EB		NB/EB				NB/EB	SB/WB	NB/EB SB/WB
		IN IND/ LD	30/ 1/10	NO/LO	36) 110	IF COUNTING	7)		30/110	115/25 55/115
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T 1 VY 1)	AUTOS	c		-			F ≥			
UNT 1 (DWY 1)	MED TRK					DIRECTIONS AS ONE.	UND	-	- //	
COUNT 1 IR RDWY 1)	MED TRK		/	-		AS ONE ,	COUNT 2		1	
(OR RDWY 1)	MED TRK HVY TRK BUSES	5	7			AS ONE,	COUNT 2 (OR RDWY 2)			
	MED TRK HVY TRKS BUSES MOTRCL	s	WING THE DA			AS ONE,	COUNT (OR RDW			
SPEEDS EST	MED TRK HVY TRK: BUSES MOTRCL: TIMATED BY:	S RADAR / DRI	IVING THE PA	CE		AS ONE,	COUNT (OR RDW			
SPEEDS EST	MED TRK HVY TRKS BUSES MOTRCL	S RADAR / DR	VING THE PA	CE		AS ONE,	COUNT (OR RDW			
SPEEDS EST POSTED SPI	MED TRK HVY TRK: BUSES MOTRCL: TIMATED BY: EED LIMIT SK	S RADAR / DRI			RUSTLING LEA	AS ONE , CHECK HERE			DIST, IND	USTRIAL
SPEEDS EST POSTED SPI	MED TRK HVY TRK: BUSES MOTRCL: FIMATED BY: EED LIMIT SK  ISE SOURCES	S RADAR / DRI	ND): DIST. AI	IRCRAFT F	SUSTLING LEA	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	DIST. IND	S/LANDSCAPING NOISE
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SPEEDS EST POSTED SPI	MED TRK HVY TRK: BUSES MOTRCL: FIMATED BY: EED LIMIT SK  ISE SOURCES	S RADAR / DRI	ND): DIST. AI	IRCRAFT F	RUSTLING LEA	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	) DIST. IND	S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI	MED TRK HVY TRK: BUSES MOTRCL: TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID	S RADAR / DRI	ND): DIST. AI	IRCRAFT F	RUSTLING LEA	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	) DIST. IND	OUSTRIAL S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI OTHER NOI	MED TRK HVY TRK: BUSES MOTRCL: TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID	S RADAR / DRI RADAR / DRI GNS SAY: (BACKGROUI S PLAYING	ND): DIST. AI	IRCRAFT F	SUSTLING LEA	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	DIST. IND	JUSTRIAL S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI OTHER NOI	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER:	S RADAR / DRI RADAR / DRI GNS SAY: (BACKGROUI S PLAYING	ND): DIST. AI	IRCRAFT F	ING DIST. T	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	) DIST. IND	OUSTRIAL S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI OTHER NOI DESCRIPTI	MED TRK HVY TRK: BUSES MOTRCL: FIMATED BY: EED LIMIT SK USE SOURCES DIST. KID OTHER: OTHER:	S RADAR / DRI GINS SAY: (BACKGROUI S PLAYING RD) SOFT	ND): DIST. AI	IRCRAFT F STNS / YELL	ING DIST. T	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	DIST. IND	SUSTRIAL S/LANDSCAPING NOISE
OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK: BUSES MOTRCL: FIMATED BY: EED LIMIT SK USE SOURCES DIST. KID OTHER: OTHER:	RADAR / DRI SINS SAY: (BACKGROUI S PLAYING RD) SOFT	MIXED F	IRCRAFT F STNS/YELL LAT OTH	ER:	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	) DIST. IND	OUSTRIAL S/LANDSCAPING NOISE
OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER: ION / SKETC	RADAR / DRI SINS SAY: (BACKGROUI S PLAYING RD) SOFT	MIXED F	IRCRAFT F STNS / YELL	ER:	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	) DIST. IND GARDENER	USTRIAL S/LANDSCAPING NOISE
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OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER: ION / SKETC	RADAR / DRI SINS SAY: (BACKGROUI S PLAYING RD) SOFT	MIXED F	IRCRAFT F STNS/YELL LAT OTH	ER:	AS ONE, CHECK HERE  AVES DIST. I	BARKING D	OGS BIRDS	) DIST. IND GARDENER	OUSTRIAL S/LANDSCAPING NOISE
OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER: ION / SKETC	RADAR / DRI GNS SAY: (BACKGROUI S PLAYING RD) SOFT	MIXED F	IRCRAFT F STNS/YELL LAT OTH	ER:	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	) DIST. IND GARDENER	OUSTRIAL S/LANDSCAPING NOISE
OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER: ION / SKETC	RADAR / DRI GNS SAY: (BACKGROUI S PLAYING RD) SOFT	MIXED F	IRCRAFT F STNS/YELL LAT OTH	ER:	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	GARDENER	S/LANDSCAPING NOISE
OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK: BUSES MOTRCL: IMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER: ION / SKETC	S RADAR / DRI SINS SAY:  (BACKGROUI S PLAYING  RD) SOFT  1: 12.7  / SKETCH  A SI	MIXED F	LAT OTH	ER:	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	DIST. IND GARDENER	S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI OTHER NOI DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER:  ION / SKETC N HA S 12 71 COMMENTS	S RADAR / DRI SINS SAY:  (BACKGROUI S PLAYING  RD) SOFT  1: 12.7  / SKETCH  A SI	MIXED F	LAT OTH	ER: 77 (WALL	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	GARDENER	S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI OTHER NOI DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK: BUSES MOTRCL: TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER: ION / SKETC N HA S 12 71 COMMENTS	S RADAR / DRI SINS SAY:  (BACKGROUI S PLAYING  RD) SOFT  1: 12.7  / SKETCH  A SI	MIXED F	LAT OTH	ER: 77 (WALL	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	GARDENER	S/LANDSCAPING NOISE
SPEEDS EST POSTED SPI OTHER NOI  DESCRIPTI TERRAIN PHOTOS	MED TRK HVY TRK BUSES MOTRCL TIMATED BY: EED LIMIT SK ISE SOURCES DIST. KID OTHER:  ION / SKETC N HA S 12 71 COMMENTS	S RADAR / DRI SINS SAY:  (BACKGROUI S PLAYING  RD) SOFT  1: 12.7  / SKETCH  A SI	MIXED F	LAT OTH	ER: 77 (WALL	AS ONE, CHECK HERE	BARKING D	OGS BIRDS	GARDENER	S/LANDSCAPING NOISE

SITE ID SITE ADDRESS	11200 D	E SOTO P	WE. OV	TS VIN	Y, CA	OBSERVER	(S) PE	TE	VITAR
START DATE 5/9		END DATE		1101	7				
START TIME 10:36		END TIME	12:15	SPM		-			
METEOROLOGICAL C	ONDITIONS								
TEMP 72	F	HUMIDITY		% R.H.		WIND	(CALM)	LIGHT	MODERATE
WINDSPD	MPH	DIR. N	NE S SE	S SW	W NW		VARIABLE	STEADY	GUSTY
SKY SUND	CLEAB	OVRCAST	PRTLY		FOG	RAIN			
ACOUSTIC MEASURE	MENTS _						-	*	
MEAS. INSTRUMENT	Pic	ceulo	SLM.	-P3		TYPE 1	(2)		SERIAL # 130 9270
CALIBRATOR	BS	WAC	A ]]11						SERIAL # 460151
CALIBRATION CHECK		PRE-TEST		dBA SPL		POST-TES	Γ	dBA SPL	WINDSCRN YES
SETTINGS	A-WTD	(SLOW)	FAST	FRONTAL	RANDOM	ANSI	OTHER:		
REC. # SEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (	SPECIFY METRIC
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COMMENTS		-	-	-			(2)		
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	RAFFIC COUI	JRCE		AIRCRAFT			STRIAL	OTHER:	STUDENTS PASS
ROADW TRAFFIC COUNT DUR DIRECTI	AY TYPE:	JRCE			DIST. TO F	RDWY C/L C	1	OTHER: MIN SB/WB	SPEED NB/EB SB/WB
ROADW TRAFFIC COUNT DUR DIRECTI	AY NOISE SOL AY TYPE: / ATION:	JRCE SPHALT MIN	SPE	ED		RDWY C/L C	OR EOP:	MIN	SPEED
ROADW TRAFFIC COUNT DUR DIRECTI	AY NOISE SOL AY TYPE: / ATION: ON NB/EB	JRCE SPHALT MIN	SPE	ED	DIST. TO F	RDWY C/L C	OR EOP:	MIN	SPEED
ROADW TRAFFIC COUNT DUR DIRECTI	AY TYPE: ATION:ON NB/EB	JRCE SPHALT MIN	SPE	ED	DIST. TO F  IF COUNTING BOTH DIRECTIONS AS ONE,	RDWY C/L C	OR EOP:	MIN	SPEED
ROADW TRAFFIC COUNT DUR DIRECTI	AY TYPE: ATION:ON NB/EB	JRCE SPHALT MIN	SPE	ED	DIST. TO F	DUNT 2 RDWY 2) 7/2 AMD	OR EOP:	MIN	SPEED
COUNT DURECTION  COUNT TRAFFIC COUNT DURECTION  COUNT TRAFFIC COUNT TO THE PROPERTY OF THE PRO	AY TYPE: ATION: ON NB/EB KS	JRCE SPHALT MIN	SPE	ED	DIST. TO F  IF COUNTING BOTH DIRECTIONS AS ONE,	RDWY C/L C	OR EOP:	MIN	SPEED
ROADW TRAFFIC COUNT DUR COUNT DIRECTI AUTOS HVY TRI BUSES MOTRO	AY TYPE: ATTON: ON NB/EB KS KS LS	JRCE JSP HVYCT MIN SB/WB	SPEE NB/EB	ED	DIST. TO F  IF COUNTING BOTH DIRECTIONS AS ONE,	RDWY C/L C	OR EOP:	MIN	SPEED
ROADW TRAFFIC COUNT DUR DIRECTI T AUTOS WED TR HVY TR BUSES MOTRC SPEEDS ESTIMATED BY	AY NOISE SOU AY TYPE: A ATION: DN NB/EB KS KS LS RADAR / DRI	JRCE JSP HVYCT MIN SB/WB	SPEE NB/EB	ED	DIST. TO F  IF COUNTING BOTH DIRECTIONS AS ONE,	RDWY C/L C	OR EOP:	MIN	SPEED
COUNT 1 COUNT	AY NOISE SOU AY TYPE: A ATION: DN NB/EB KS KS LS RADAR / DRI	JRCE JSP HVYCT MIN SB/WB	SPEE NB/EB	ED	DIST. TO F  IF COUNTING BOTH DIRECTIONS AS ONE,	RDWY C/L C	OR EOP:	MIN	SPEED
ROADW TRAFFIC COUNT DUR DIRECTI L AUTOS WED TR OUT BUSES MOTRO SPEEDS ESTIMATED BY POSTED SPEED LIMIT S	AY NOISE SOU AY TYPE: A ATION: ON NB/EB KS KS LS E RADAR / DRI	JRCE JSPHALT MIN SB/WB  IVING THE PA	SPEE NB/EB	SB/WB	JF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	NB/EB	MIN SB/WB	SPEED NB/EB SB/WB
ROADW TRAFFIC COUNT DUR DIRECTI (T AUTOS LN MED TR OWNER HVY TRI BUSES MOTRO SPEEDS ESTIMATED BY POSTED SPEED LIMIT S OTHER NOISE SOURCE	AY NOISE SOU AY TYPE: A ATION: ON NB/EB  KS  KS  LS  RADAR / DRI  IGNS SAY:  G (BACKGROUI	MIN SB/WB  IVING THE PA	SPEE NB/EB NB/EB	SB/WB	JF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  GS BIRDS	MIN SB/WB	SPEED NB/EB SB/WB  DUSTRIAL
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ROADW TRAFFIC COUNT DUR DIRECTI THE AUTOS HOY TRI BUSES MOTRO SPEEDS ESTIMATED BY POSTED SPEED LIMIT S OTHER NOISE SOURCE DIST. KI	AY NOISE SOU AY TYPE: A ATION: ON NB/EB  KS  KS  LS  RADAR / DRI  IGNS SAY:  6 (BACKGROUIDS PLAYING	MIN SB/WB  IVING THE PA  DIST. A  DIST. CONVR	SPEE NB/EB NB/EB	SB/WB SB/WB USTLING LEA	JF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 COUNT	NB/EB  GS BIRDS DOWN DISTD	MIN SB/WB DIST. INI	SPEED NB/EB SB/WB  DUSTRIAL RS/LANDSCAPING NOISE
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	INP DE	E SUTU	STON	WE TAN	KS	PROJECT #	106	19-2	1	-
SITE ID SITE ADDRESS	11200	DE SOTO 1	WE. OU	ATS WINM	CA	OBSERVER	(S) PE	TE	VITAR	
START DATE 5/4	1/18	END DATE	9</td <td>118</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td>	118	1					
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SKY SUNN	CLEAR	OVRCAST	PRTLY	CLDY	FOG	RAIN				
ACOUSTIC MEASUR	MENTS O	00000		00			^			
MEAS. INSTRUMENT			SLM	-12		TYPE 1	(2)		SERIAL # 130	
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	SITE ADDRESS	OBSERVER(S)	ETE VITAR
	START DATE 2/12/19 END DATE 2/12/19		
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7	METEOROLOGICAL CONDITIONS	WIND CALL	LIGHT MODERATE
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	TRAFFIC COUNT DURATION: MIN SPEED  DIRECTION NB/EB SB/WB NB/EB SB/WB  NB/EB SB/WB	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL
	DIRECTION NB/EB SB/WB NB/EB SB/WB  BOTH SD SB/WB NB/EB SB/WB  BOTH SB/WB	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL
	DIRECTION NB/EB SB/WB NB/EB SB/WB  BOTH THE AUTOS  BOTH DIRECTION DIRECTION  BOTH DIRECTION  DIRECTION DIRECTION  BOTH DIRECTION  DIRECTION  BOTH DIRECTION  DIRECTION  BOTH DIRECTION  DIRECTION  BOTH DIRECTION  DIRECTION  BOTH D	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL
	DIRECTION NB/EB SB/WB NB/EB SB/WB  BOTH SD SB/WB NB/EB SB/WB  BOTH SB/WB	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL
	DIRECTION NB/EB SB/WB NB/EB SB/WB  BOTH SD SB/WB NB/EB SB/WB  BOTH SB/WB	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL
	DIRECTION NB/EB SB/WB NB/EB SB/WB  BOTH SD SB/WB NB/EB SB/WB  BOTH SB/WB	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL
	DIRECTION NB/EB SB/WB NB/EB SB/WB  BOTH SD SB/WB NB/EB SB/WB  BOTH SB/WB	ODER TO STATE OF THE STATE OF T	BIRDS DIST. INDUSTRIAL DISTD GARDENERS/LANDSCAPING NOISE



Report date: 10/2/2019

Case Description: De Soto Tanks EIR - Demolition

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Source - Receiver 200' Residential 65 60 55

Equipment

			Spec	Д	Actual	Receptor	Estimated
	Impact		Lmax	L	.max	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(	dBA)	(feet)	(dBA)
Compressor (air)	No	40	)		77.7	200	0
Concrete Saw	No	20	)		89.6	200	0
Crane	No	16	;		80.6	250	0
All Other Equipment > 5 HP	No	50	)	85		250	0
Man Lift	No	20	)		74.7	300	0
Generator	No	50	)		80.6	350	0
Dozer	No	40	)		81.7	300	0
Front End Loader	No	40	)		79.1	400	0
Tractor	No	40	)	84		300	0

#### Results

		Calculated (dBA)				Noise Limits (dBA)		
					Day		Evening	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq
Compressor (air)		65.	6	61.6	N/A	N/A	N/A	N/A
Concrete Saw		77.	5	70.5	N/A	N/A	N/A	N/A
Crane		66.	6	58.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		7	1	68	N/A	N/A	N/A	N/A
Man Lift		59.	1	52.1	N/A	N/A	N/A	N/A
Generator		63.	7	60.7	N/A	N/A	N/A	N/A
Dozer		66.	1	62.1	N/A	N/A	N/A	N/A
Front End Loader		6	1	57.1	N/A	N/A	N/A	N/A
Tractor		68.	4	64.5	N/A	N/A	N/A	N/A
	Total	77.	5	74.2	N/A	N/A	N/A	N/A

<sup>\*</sup>Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description Land Use Daytime Evening Night
Typical Source - Receiver 300' Residential 65 60 55

Equipment

			Spec	Actua	al	Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	)	(feet)	(dBA)
Compressor (air)	No	40	)		77.7	300	0
Concrete Saw	No	20	)		89.6	300	0
Crane	No	16	5		80.6	300	0
All Other Equipment > 5 HP	No	50	)	85		300	0
Man Lift	No	20	)		74.7	300	0
Generator	No	50	)		80.6	300	0
Dozer	No	40	)		81.7	300	0
Front End Loader	No	40	)		79.1	300	0
Tractor	No	40	)	84		300	0

Results

		Calculated	l (dra)			Noise	Limi	ts (dBA)			
		carculated	. (u.b/ t/		Day	110150	. =	Evenin	g		
Equipment		*Lmax	Leq		Lmax	Leq		Lmax	_	Leq	
Compressor (air)		62.3	1 5	58.1	N/A	N/A		N/A		N/A	
Concrete Saw		74	4	67	N/A	N/A		N/A		N/A	
Crane		65	5	57	N/A	N/A		N/A		N/A	
All Other Equipment > 5 HP		69.4	4 6	66.4	N/A	N/A		N/A		N/A	
Man Lift		59.3	1 5	52.1	N/A	N/A		N/A		N/A	
Generator		65.2	1 6	62.1	N/A	N/A		N/A		N/A	
Dozer		66.3			N/A	N/A		N/A		N/A	
Front End Loader		63.5			N/A	N/A		N/A		N/A	
Tractor		68.4	4 ε	64.5	N/A	N/A		N/A		N/A	
	Total	74	4	73	N/A	N/A		N/A		N/A	
		*Calculate	ed Lmax is	s the	Loude	st value.					
					Rec	eptor #3 -					
		Baselines	(dBA)								
Description	Land Use	Daytime	Evening	g	Night						
Nearest Source - School	Residential	, 65	5	60	Ü	55					
					Equipm	nent					
					Spec	Actua	al	Recept	or	Estimat	ted
		Impact			Lmax	Lmax		Distand		Shieldir	ng
Description		Device	Usage(	%)	(dBA)	(dBA)	)	(feet)		(dBA)	Ü
Compressor (air)		No		40		, ,	77.7		120		0
Concrete Saw		No		20			89.6		150		0
Crane		No		16			80.6	6	150		0
All Other Equipment > 5 HP		No		50		85			120		0
Man Lift		No		20			74.7	,	120		0
Generator		No		50			80.6	6	200		0
Dozer		No		40			81.7		150		0
Front End Loader		No		40			79.1		150		0
Tractor		No		40		84			150		0
					Results	;					
		Calculated	d (dBA)			Noise	Limi	ts (dBA)			
			, ,		Day			Evenin			
Equipment		*Lmax	Leq		Lmax	Leq		Lmax		Leq	
Compressor (air)		70.3	1 6	66.1	N/A	N/A		N/A		N/A	
Concrete Saw		80	)	73	N/A	N/A		N/A		N/A	
Crane		7:			N/A	N/A		N/A		N/A	
All Other Equipment > 5 HP		77.4	4 7	74.4	N/A	N/A		N/A		N/A	
Man Lift		67.3	1 6	50.1	N/A	N/A		N/A		N/A	
Generator		68.6			N/A	N/A		N/A		N/A	
Dozer		72.3	1 6	68.1	N/A	N/A		N/A		N/A	
Front End Loader		69.6	6 6	65.6	N/A	N/A		N/A		N/A	
Tractor		74.5	5 7	70.5	N/A	N/A		N/A		N/A	
	Total	80	0 7	79.6	N/A	N/A		N/A		N/A	
		*Calculate	ed Lmax is	s the	Loude	st value.					
					Rec	eptor #4 -					
		Baselines	(dBA)								
Description	Land Use	Daytime	Evening	g	Night						
Typical Source - School	Residential	65	5	60		55					
					Equipm	nent					
					Spec	Actua	al	Recept	or	Estimat	ted
		Impact			Lmax	Lmax		Distanc	ce	Shieldir	ng
Description		Device	Usage(	%)	(dBA)	(dBA)	)	(feet)		(dBA)	
Compressor (air)		No		40			77.7	,	260		0
Concrete Saw		No		20			89.6	j	260		0

Crane	No	16		80.6	260	0
All Other Equipment > 5 HP	No	50	85		260	0
Man Lift	No	20		74.7	260	0
Generator	No	50		80.6	260	0
Dozer	No	40		81.7	260	0
Front End Loader	No	40		79.1	260	0
Tractor	No	40	84		260	0

					Results			
		Calculated (dBA)			Noise Limits (dBA)			
					Day		Evening	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq
Compressor (air)		63.3		59.4	N/A	N/A	N/A	N/A
Concrete Saw		75.3		68.3	N/A	N/A	N/A	N/A
Crane		66.2		58.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		70.7		67.7	N/A	N/A	N/A	N/A
Man Lift		60.4		53.4	N/A	N/A	N/A	N/A
Generator		66.3		63.3	N/A	N/A	N/A	N/A
Dozer		67.3		63.4	N/A	N/A	N/A	N/A
Front End Loader		64.8		60.8	N/A	N/A	N/A	N/A
Tractor		69.7		65.7	N/A	N/A	N/A	N/A
	Total	75.3		74.2	N/A	N/A	N/A	N/A
		*Calculate	d Lmax	is the	e Loudest v	/alue.		

Report date: 10/2/2019

Case Description: De Soto Tanks EIR - Excavation

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Source - Residence 300' Residential 65 60 55

			Equipn	nent			
			Spec	Actu	al	Receptor	Estimated
	Impact		Lmax	Lma	X	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA	١)	(feet)	(dBA)
Auger Drill Rig	No	20			84.4	300	0
Concrete Mixer Truck	No	40			78.8	300	0
Crane	No	16			80.6	350	0
Excavator	No	40			80.7	400	0
Generator	No	50			80.6	350	0
All Other Equipment > 5 HP	No	50		85		400	0
Pumps	No	50			80.9	500	0
Pumps	No	50			80.9	350	0
Dozer	No	40			81.7	300	0
Front End Loader	No	40			79.1	350	0
Front End Loader	No	40			79.1	300	0

	Results						
	Calculated (dBA)			Noise Limit	:s (dBA)		
				Day		Evening	
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq
Auger Drill Rig	68.8	}	61.8	N/A	N/A	N/A	N/A
Concrete Mixer Truck	63.2	!	59.3	N/A	N/A	N/A	N/A
Crane	63.6	j	55.7	N/A	N/A	N/A	N/A
Excavator	62.6	j	58.7	N/A	N/A	N/A	N/A
er Drill Rig crete Mixer Truck e	68.8 63.2 63.6	!	61.8 59.3 55.7	Lmax N/A N/A N/A	N/A N/A N/A	Lmax N/A N/A N/A	N/A N/A N/A

Generator		63.7	60.7 N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP		66.9	63.9 N/A	N/A	N/A	N/A	
Pumps		60.9	57.9 N/A	N/A	N/A	N/A	
•		64	61 N/A	N/A	N/A	N/A	
Pumps			62.1 N/A	•	•		
Dozer		66.1	•	N/A	N/A	N/A	
Front End Loader		62.2	58.2 N/A	N/A	N/A	N/A	
Front End Loader		63.5	59.6 N/A	N/A	N/A	N/A	
	Total	68.8	70.9 N/A	N/A	N/A	N/A	
		*Calculated Lr	max is the Lou	dest value.			
			R	eceptor #2	-		
		Baselines (dBA	4)				
Description	Land Use	Daytime Ev	ening Nigh	t			
Typical Source - Residence 500'	Residential	65	60	55			
			Equi	pment			
			Spec	Actual	Receptor	Estima	ted
		Impact	Lmax	c Lmax	Distance	Shieldi	ng
Description		•	age(%) (dBA	.) (dBA)	(feet)	(dBA)	Ū
Auger Drill Rig		No	20		34.4 50	' '	0
Concrete Mixer Truck		No	40		78.8 50		0
Crane		No	16		30.6 55		0
Excavator		No	40		30.7 60		0
Generator		No	50		80.6 55		0
All Other Equipment > 5 HP		No	50	85	60		0
Pumps		No	50		30.9 60		0
Pumps		No	50		30.9 55		0
Dozer		No	40		81.7 50		0
Front End Loader		No	40		79.1 55		0
Front End Loader		No	40	-	79.1 50	00	0
			Resu	lts			
		Calculated (dE			imits (dBA)		
		Calculated (dE			imits (dBA) Evening		
Equipment		Calculated (dE	BA) Day	Noise I		Leq	
Equipment Auger Drill Rig			BA) Day	Noise l	Evening	Leq N/A	
• •		*Lmax Le	BA) Day q Lmax	Noise L	Evening Lmax	•	
Auger Drill Rig		*Lmax Le 64.4	BA)  Day q Lmax 57.4 N/A 54.8 N/A	Noise L Leq N/A N/A	Evening Lmax N/A N/A	N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane		*Lmax Le 64.4 58.8 59.7	Day q Lmax 57.4 N/A 54.8 N/A 51.8 N/A	Noise L  Leq N/A N/A N/A	Evening Lmax N/A N/A N/A	N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator		*Lmax Le 64.4 58.8 59.7 59.1	Day q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A	Noise L Leq N/A N/A N/A N/A	Evening Lmax N/A N/A N/A	N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator		*Lmax Le 64.4 58.8 59.7 59.1 59.8	9A)  Q Day Q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A	Noise L  Leq N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A	N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4	9A)  Q Day Q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A	Noise Leq N/A N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4	PA)  Day  The pay  Th	Noise Leq N/A N/A N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1	Pay Day Lmax 57.4 N/A 54.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A	Noise L  Leq N/A N/A N/A N/A N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7	Pay Day Lmax 57.4 N/A 54.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A	Noise Leq N/A N/A N/A N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3	Pay Day Lmax 57.4 N/A 54.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A	Noise Leq N/A N/A N/A N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54	Pay Day Lmax 57.4 N/A 54.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A 50 N/A	Noise Leq N/A N/A N/A N/A N/A N/A N/A N/A N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader	Total	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4	9A)  Day Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A 50 N/A 67 N/A	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader	Total	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54	9A)  Day Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A 50 N/A 67 N/A	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader	Total	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4	9 Day 9 Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A 67 N/A max is the Loud	Noise L  Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader	Total	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Le	9 Day q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 54.3 N/A 50 N/A 67 N/A max is the Lour	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln	9 Day q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 54.3 N/A 50 N/A 67 N/A max is the Lour	Noise L  Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader	Total Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln  Baselines (dBA Daytime Ev	9 Day q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 54.3 N/A 50 N/A 67 N/A max is the Lour	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader		*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln	9 Day 9 Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 57.7 N/A 57 N/A 67 N/A max is the Lour	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln  Baselines (dBA Daytime Ev	9 Day q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A 67 N/A max is the Loud	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln  Baselines (dBA Daytime Ev	9A) Day Q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 57.1 N/A 57.7 N/A 54.3 N/A 67 N/A max is the Loud R A) ening Nigh	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln  Baselines (dBA Daytime Ev	9A) Day Q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 57.1 N/A 57.7 N/A 54.3 N/A 67 N/A max is the Loud R A) ening Nigh	Noise Leq N/A	Evening Lmax N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	ted
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln  Baselines (dBA Daytime Ev	9A) Day Q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 57.1 N/A 57.7 N/A 54.3 N/A 67 N/A max is the Loue R A) ening Nigh 60 Equi	Noise Leq N/A	Evening Lmax N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Lr  Baselines (dBA Daytime Ev 65	9A) Day Q Lmax 57.4 N/A 54.8 N/A 51.8 N/A 55.1 N/A 56.8 N/A 60.4 N/A 56.3 N/A 57.1 N/A 57.7 N/A 54.3 N/A 67 N/A max is the Lour R A) ening Nigh 60 Equi	Noise Leq N/A	Evening Lmax N/A	N/A	
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader  Description Nearest Source - School	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Lr  Baselines (dBA Daytime Ev 65	A)  Day  Company  Com	Noise L  Leq N/A	Evening Lmax N/A	N/A	ng
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader  Description Nearest Source - School  Description Auger Drill Rig	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Ln  Baselines (dBA Daytime Ev 65  Impact Device Us No	9A)  Day Company Compa	Noise L  Leq N/A	Evening Lmax N/A	N/A	ng O
Auger Drill Rig Concrete Mixer Truck Crane Excavator Generator All Other Equipment > 5 HP Pumps Pumps Dozer Front End Loader Front End Loader  Description Nearest Source - School	Land Use	*Lmax Le 64.4 58.8 59.7 59.1 59.8 63.4 59.4 60.1 61.7 58.3 54 64.4 *Calculated Lr  Baselines (dBA Daytime Ev 65	A)  Day  Company  Com	Noise L  Leq N/A	Evening Lmax N/A	N/A	ng

Excavator	No	40		80.7	100	0
Generator	No	50		80.6	200	0
All Other Equipment > 5 HP	No	50	85		150	0
Pumps	No	50		80.9	200	0
Pumps	No	50		80.9	250	0
Dozer	No	40		81.7	200	0
Front End Loader	No	40		79.1	300	0
Front End Loader	No	40		79.1	150	0

	Calculated	Noise Limits (dBA)		
		Day		Evening
Equipment	*Lmax	Leq Lmax	Leq	Lmax
Auger Drill Rig	78.3	71.3 N/A	N/A	N/A
Concrete Mixer Truck	69.3	65.3 N/A	N/A	N/A
Crane	71	63 N/A	N/A	N/A
Excavator	74.7	70.7 N/A	N/A	N/A
Generator	68.6	65.6 N/A	N/A	N/A
All Other Equipment > 5 HP	75.5	72 / N/A	N/A	N/A

Exca N/A Gene N/A All Other Equipment > 5 HP 75.5 72.4 N/A N/A N/A N/A Pumps 68.9 65.9 N/A N/A N/A N/A Pumps 67 N/A 64 N/A N/A N/A Dozer 65.6 N/A N/A 69.6 N/A N/A Front End Loader 63.5 59.6 N/A N/A N/A N/A Front End Loader 60.5 N/A 64.5 N/A N/A N/A Total 78.3 78.1 N/A N/A N/A N/A

Results

Leq

N/A

N/A

N/A

---- Receptor #4 ----

Baselines (dBA)

DescriptionLand UseDaytimeEveningNightTypical Source - SchoolResidential656055

			Equipm	ent					
			Spec		Actual		Receptor	Estimated	
	Impact		Lmax		Lmax		Distance	Shielding	
Description	Device	Usage(%)	(dBA)		(dBA)		(feet)	(dBA)	
Auger Drill Rig	No	20				84.4	260	0	)
Concrete Mixer Truck	No	40				78.8	260	0	)
Crane	No	16				80.6	260	0	)
Excavator	No	40				80.7	260	0	)
Generator	No	50				80.6	260	0	)
All Other Equipment > 5 HP	No	50		85			260	0	)
Pumps	No	50				80.9	260	0	)
Pumps	No	50				80.9	260	0	)
Dozer	No	40				81.7	260	0	)
Front End Loader	No	40				79.1	260	0	)
Front End Loader	No	40				79.1	260	0	)

				Results			
	Calculated (dBA)				Noise Limi		
				Day		Evening	
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq
Auger Drill Rig	70		63.1	N/A	N/A	N/A	N/A
Concrete Mixer Truck	64.5		60.5	N/A	N/A	N/A	N/A
Crane	66.2		58.3	N/A	N/A	N/A	N/A
Excavator	66.4		62.4	N/A	N/A	N/A	N/A
Generator	66.3		63.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	70.7		67.7	N/A	N/A	N/A	N/A
Pumps	66.6		63.6	N/A	N/A	N/A	N/A
Pumps	66.6		63.6	N/A	N/A	N/A	N/A
Dozer	67.3		63.4	N/A	N/A	N/A	N/A

<sup>\*</sup>Calculated Lmax is the Loudest value.

Front End Loader		64.8	60.8 N/A	N/A	N/A	N/A
Front End Loader		59.7	55.7 N/A	N/A	N/A	N/A
	Total	70.7	73.6 N/A	N/A	N/A	N/A
		*Calculated Lm	ax is the Loudes	t value.		

Report date: 10/2/2019

Case Description: De Soto Tanks EIR - Storage Tank Construction

---- Receptor #1 ----

Baselines (dBA)

Description Land Use Daytime Evening Night

Nearest Source - Residence 300' Residential 65 60 55

			Equipm	ent			
			Spec	Ad	ctual	Receptor	Estimated
	Impact		Lmax	Ln	nax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(d	BA)	(feet)	(dBA)
Compressor (air)	No	40			77.7	300	0
Concrete Mixer Truck	No	40			78.8	300	0
Crane	No	16	;		80.6	400	0
Man Lift	No	20			74.7	400	0
Generator	No	50			80.6	500	0
Grader	No	40	)	85		350	0
Compactor (ground)	No	20			83.2	300	0
Pumps	No	50			80.9	400	0
Pumps	No	50			80.9	350	0
Pumps	No	50			80.9	300	0
Roller	No	20			80	350	0
Dozer	No	40			81.7	400	0
Front End Loader	No	40			79.1	400	0
Backhoe	No	40			77.6	350	0
All Other Equipment > 5 HP	No	50		85		300	0
Welder / Torch	No	40			74	350	0

		Results							
		Calculate	d (dBA)			Noise Limits (dBA)			
					Day		Evening		
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	
Compressor (air)		62	.1	58.1	N/A	N/A	N/A	N/A	
Concrete Mixer Truck		63	.2	59.3	N/A	N/A	N/A	N/A	
Crane		62	.5	54.5	N/A	N/A	N/A	N/A	
Man Lift		56	.6	49.6	N/A	N/A	N/A	N/A	
Generator		60	.6	57.6	N/A	N/A	N/A	N/A	
Grader		68	.1	64.1	N/A	N/A	N/A	N/A	
Compactor (ground)		67	.7	60.7	N/A	N/A	N/A	N/A	
Pumps		62	.9	59.9	N/A	N/A	N/A	N/A	
Pumps		(	64	61	N/A	N/A	N/A	N/A	
Pumps		65	.4	62.4	N/A	N/A	N/A	N/A	
Roller		63	.1	56.1	N/A	N/A	N/A	N/A	
Dozer		63	.6	59.6	N/A	N/A	N/A	N/A	
Front End Loader		(	51	57.1	N/A	N/A	N/A	N/A	
Backhoe		60	.7	56.7	N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP		69	.4	66.4	N/A	N/A	N/A	N/A	
Welder / Torch		57	.1	53.1	N/A	N/A	N/A	N/A	
	Total	69	.4	72.3	N/A	N/A	N/A	N/A	
		* - 1 1							

<sup>\*</sup>Calculated Lmax is the Loudest value.

Baselines (dBA)

Description	Land Use	Daytime	Evening Night	
Typical Source - Residence 500'	Residential	65	60	55

Typical Source - Residence 500'	Residential	. 6	5	60	55			
				E	quipment			
				Sı	pec	Actual	Receptor	Estimated
		Impact		Lr	max	Lmax	Distance	Shielding
Description		Device	Usage(9	%) (c	dBA)	(dBA)	(feet)	(dBA)
Compressor (air)		No		40		77.7	500	0
Concrete Mixer Truck		No		40		78.8	500	0
Crane		No		16		80.6	600	0
Man Lift		No		20		74.7	600	0
Generator		No		50		80.6	600	0
Grader		No		40	85		550	0
Compactor (ground)		No		20		83.2	500	0
Pumps		No		50		80.9	600	0
Pumps		No		50		80.9	550	0
Pumps		No		50		80.9	500	0
Roller		No		20		80	600	0
Dozer		No		40		81.7	550	0
Front End Loader		No		40		79.1	600	0
Backhoe		No		40		77.6	550	0
All Other Equipment > 5 HP		No		50	85		600	0
Welder / Torch		No		40		74	550	0
				R	esults			
		Calculate	d (dBA)			Noise Limit	s (dBA)	
				, Day			Evening	
Equipment		*Lmax	Leq	Lr	max	Leq	Lmax	Leq
Compressor (air)		57.	7 5	3.7 N	I/A	N/A	N/A	N/A
Concrete Mixer Truck		58.	8 5	4.8 N	I/A	N/A	N/A	N/A
Crane		5	9	51 N	I/A	N/A	N/A	N/A
Man Lift		53.	1 4	6.1 N	I/A	N/A	N/A	N/A

		Calculated (dDA)		IVOISC LI				
					Day		Evening	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq
Compressor (air)		57.7	,	53.7	N/A	N/A	N/A	N/A
Concrete Mixer Truck		58.8	3	54.8	N/A	N/A	N/A	N/A
Crane		59	)	51	N/A	N/A	N/A	N/A
Man Lift		53.1		46.1	N/A	N/A	N/A	N/A
Generator		59	)	56	N/A	N/A	N/A	N/A
Grader		64.2	2	60.2	N/A	N/A	N/A	N/A
Compactor (ground)		63.2	2	56.2	N/A	N/A	N/A	N/A
Pumps		59.4	ļ	56.3	N/A	N/A	N/A	N/A
Pumps		60.1		57.1	N/A	N/A	N/A	N/A
Pumps		60.9	)	57.9	N/A	N/A	N/A	N/A
Roller		58.4	ļ	51.4	N/A	N/A	N/A	N/A
Dozer		60.8	3	56.9	N/A	N/A	N/A	N/A
Front End Loader		57.5	i	53.5	N/A	N/A	N/A	N/A
Backhoe		56.7	,	52.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		63.4		60.4	N/A	N/A	N/A	N/A
Welder / Torch		53.2	!	49.2	N/A	N/A	N/A	N/A
	Total	64.2	!	68	N/A	N/A	N/A	N/A

<sup>64.2 68</sup> N/A N/A \*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening Nig	ht
Nearest Source - School	Residential	65	60	55

	ent

			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40	)	77.	7 300	0
Concrete Mixer Truck	No	40	)	78.	8 300	0
Crane	No	16	;	80.	6 325	0

Man Lift	No	20		74.7	350	0
Generator	No	50		80.6	500	0
Grader	No	40	85		375	0
Compactor (ground)	No	20		83.2	500	0
Pumps	No	50		80.9	400	0
Pumps	No	50		80.9	500	0
Pumps	No	50		80.9	600	0
Roller	No	20		80	400	0
Dozer	No	40		81.7	350	0
Front End Loader	No	40		79.1	500	0
Backhoe	No	40		77.6	400	0
All Other Equipment > 5 HP	No	50	85		350	0
Welder / Torch	No	40		74	500	0

					Results			
		Calculated	(dBA)			Noise Lim	iits (dBA)	
					Day		Evening	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq
Compressor (air)		62.1	Ĺ	58.1	N/A	N/A	N/A	N/A
Concrete Mixer Truck		63.2	<u> </u>	59.3	N/A	N/A	N/A	N/A
Crane		64.3	}	56.3	N/A	N/A	N/A	N/A
Man Lift		57.8	3	50.8	N/A	N/A	N/A	N/A
Generator		60.6	;	57.6	N/A	N/A	N/A	N/A
Grader		67.5	;	63.5	N/A	N/A	N/A	N/A
Compactor (ground)		63.2	<u>'</u>	56.2	N/A	N/A	N/A	N/A
Pumps		62.9	<del>)</del>	59.9	N/A	N/A	N/A	N/A
Pumps		60.9	<del>)</del>	57.9	N/A	N/A	N/A	N/A
Pumps		59.4	ţ	56.3	N/A	N/A	N/A	N/A
Roller		61.9	<del>)</del>	54.9	N/A	N/A	N/A	N/A
Dozer		64.8	3	60.8	N/A	N/A	N/A	N/A
Front End Loader		59.1	Ĺ	55.1	N/A	N/A	N/A	N/A
Backhoe		59.5	j	55.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		68.1	Ĺ	65.1	N/A	N/A	N/A	N/A
Welder / Torch		54	ł	50	N/A	N/A	N/A	N/A
	Total	68.2	Ĺ	71.1	N/A	N/A	N/A	N/A

<sup>\*</sup>Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Baselines (dBA)

Description Land Use Daytime Evening Night
Typical Source - School Residential 65 60 55

			Equipm	nent			
			Spec	Actu	al	Receptor	Estimated
	Impact		Lmax	Lma	K	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA	()	(feet)	(dBA)
Compressor (air)	No	40			77.7	460	0
Concrete Mixer Truck	No	40			78.8	460	0
Crane	No	16			80.6	460	0
Man Lift	No	20			74.7	460	0
Generator	No	50			80.6	460	0
Grader	No	40		85		460	0
Compactor (ground)	No	20			83.2	460	0
Pumps	No	50			80.9	460	0
Pumps	No	50			80.9	460	0
Pumps	No	50			80.9	460	0
Roller	No	20			80	460	0
Dozer	No	40			81.7	460	0
Front End Loader	No	40			79.1	460	0
Backhoe	No	40			77.6	460	0
All Other Equipment > 5 HP	No	50		85		460	0

Welder / Torch	No	40	74	460	0
----------------	----	----	----	-----	---

		Results							
		Calculated	(dBA)			Noise Lim			
					Day		Evening		
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq	
Compressor (air)		58.4	ļ	54.4	N/A	N/A	N/A	N/A	
Concrete Mixer Truck		59.5	; ;	55.5	N/A	N/A	N/A	N/A	
Crane		61.3	}	53.3	N/A	N/A	N/A	N/A	
Man Lift		55.4	ļ	48.4	N/A	N/A	N/A	N/A	
Generator		61.4	ļ	58.3	N/A	N/A	N/A	N/A	
Grader		65.7	,	61.7	N/A	N/A	N/A	N/A	
Compactor (ground)		64	ļ	57	N/A	N/A	N/A	N/A	
Pumps		61.7	,	58.7	N/A	N/A	N/A	N/A	
Pumps		61.7	,	58.7	N/A	N/A	N/A	N/A	
Pumps		61.7	,	58.7	N/A	N/A	N/A	N/A	
Roller		60.7	,	53.7	N/A	N/A	N/A	N/A	
Dozer		62.4	ļ	58.4	N/A	N/A	N/A	N/A	
Front End Loader		59.8	}	55.9	N/A	N/A	N/A	N/A	
Backhoe		58.3	}	54.3	N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP		65.7	'	62.7	N/A	N/A	N/A	N/A	
Welder / Torch		54.7	'	50.7	N/A	N/A	N/A	N/A	
	Total	65.7	,	69.7	N/A	N/A	N/A	N/A	
		*Calculate	d Lmax	is the	e Loudest v	/alue.			

Report date: 10/2/2019

Case Description: De Soto Tanks EIR - Pump Station Construction

---- Receptor #1 ----

		receptor n=
	Baselines (dBA)	

Description Land Use Daytime Evening Night
Nearest Source - Residence 300' Residential 65 60 55

			Equipn	nent			
			Spec	Actual		Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)
Crane	No	16	;	8	30.6	400	0
Grader	No	40	)	85		350	0
Paver	No	50	)	-	77.2	400	0
Compactor (ground)	No	20	)	8	33.2	300	0
Roller	No	20	)		80	350	0
Dozer	No	40	)	8	31.7	400	0
Front End Loader	No	40	)	-	79.1	400	0
Backhoe	No	40	)	-	77.6	350	0

				Results				
	Calculated (dBA)				Noise Li	Noise Limits (dBA)		
				Day		Evening		
Equipment	*Lmax	Leq		Lmax	Leq	Lmax	Leq	
Crane	62.	5	54.5	N/A	N/A	N/A	N/A	
Grader	68.	1	64.1	N/A	N/A	N/A	N/A	
Paver	59.	2	56.1	N/A	N/A	N/A	N/A	
Compactor (ground)	67.	7	60.7	N/A	N/A	N/A	N/A	
Roller	63.	1	56.1	N/A	N/A	N/A	N/A	
Dozer	63.	6	59.6	N/A	N/A	N/A	N/A	

Front End Loader		61		N/A	N/A		N/A	N/A	
Backhoe	_	60.7		N/A	N/A		N/A	N/A	
	Total	68.1		N/A	N/A		N/A	N/A	
		*Calculate	d Lmax is the	e Loude	st value.				
				Poo	ontor #2				
		Baselines (	dBA)	Rec	eptor #2				
Description	Land Use	Daytime	Evening	Night					
Typical Source - Residence 500'	Residential	65	J	-	55				
Typical Source - Residence 500	Residential	03	00		33				
				Equipn	nent				
				Spec	Actu	al	Receptor	Estima	ited
		Impact		Lmax	Lmax	(	Distance	Shield	ing
Description		Device	Usage(%)	(dBA)	(dBA		(feet)	(dBA)	Ü
Crane		No	16		,	80.6			0
Grader		No	40		85		550		0
Paver		No	50			77.2			0
Compactor (ground)		No	20			83.2			0
Roller		No	20			80			0
Dozer		No	40			81.7			0
Front End Loader		No	40			79.1			0
Backhoe		No	40			77.6			0
Dackilde		NO	40			77.0	, 550	J	U
				Results	;				
		Calculated	(dBA)		Noise	e Limi	ts (dBA)		
				Day			Evening		
Equipment		*Lmax	Leq	Lmax	Leq		Lmax	Leq	
Crane		59	51	N/A	N/A		N/A	N/A	
Grader		64.2	60.2	N/A	N/A		N/A	N/A	
Paver		55.6		N/A	N/A		N/A	N/A	
Compactor (ground)		63.2		N/A	N/A		N/A	N/A	
Roller		58.4		N/A	N/A		N/A	N/A	
Dozer		60.8		, N/A	N/A		, N/A	, N/A	
Front End Loader		57.5		N/A	N/A		N/A	, N/A	
Backhoe		56.7		N/A	N/A		N/A	N/A	
24060	Total	64.2		N/A	N/A		N/A	N/A	
			d Lmax is the	-			,	,	
				Rec	eptor #3				
		Baselines (							
Description	Land Use	Daytime	•	Night					
Nearest Source - School	Residential	65	60		55				
				Equipm					
				Spec	Actu		Receptor		
		Impact -	(-1)	Lmax	Lmax		Distance	Shield	ıng
Description		Device	Usage(%)	(dBA)	(dBA	•	(feet)	(dBA)	
Crane		No	16			80.6			0
Grader		No	40		85		12!		0
Paver		No	50			77.2			0
Compactor (ground)		No	20			83.2			0
Roller		No	20			80			0
Dozer		No	40			81.7			0
Front End Loader		No	40			79.1			0
Backhoe		No	40			77.6	5 12!	5	0
			( ID ( )	Results			. / 15 - 1		
		Calculated	(dBA)	_	Noise	e Limi	ts (dBA)		
		ate c		Day			Evening		
Equipment		*Lmax	Leq	Lmax	Leq		Lmax	Leq	
Crane		74.5	66.6	N/A	N/A		N/A	N/A	

Grader		77	7 73	.1 N/A		N/A	N/A	N/A	
Paver		69.3	3 66	.3 N/A		N/A	N/A	N/A	
Compactor (ground)		73.7	7 66	.7 N/A		N/A	N/A	N/A	
Roller		72	2 65	.1 N/A		N/A	N/A	N/A	
Dozer		72.2	1 68	.1 N/A		N/A	N/A	N/A	
Front End Loader		71.2	2 67	.2 N/A		N/A	N/A	N/A	
Backhoe		69.6	6 65	.6 N/A		N/A	N/A	N/A	
	Total	77	7 77	.2 N/A		N/A	N/A	N/A	
		*Calculate	ed Lmax is t	the Lou	dest val	lue.			
				D	Pacanta	or #4			
		Baselines	(dBA)	[,	recepto	11 #4			
Description	Land Use	Daytime	Evening	Nigh	t				
Typical Source - School	Residential	65	•	50	55				
				•	pment	A atual	Dagantau	Fatina ata	لما
				Spec		Actual	Receptor	Estimate	
Description		Impact	11/0/	Lmax		Lmax	Distance	Shielding	5
Description		Device	Usage(%		١)	(dBA)	(feet)	(dBA)	0
Crader		No		16	O.F.	80.6			0
Grader		No		40 - 0	85	77.3	260		0
Paver		No		50		77.2			0
Compactor (ground) Roller		No No		20 20		83.2 80			0
Dozer		No		20 40		81.7			0
Front End Loader		No		+0 10		79.1			0
Backhoe		No		+0 40		79.1 77.6			0
Backiloc		NO	-	+0		77.0	200	,	U
				Resu	ılts				
		Calculated	d (dBA)			Noise Limi	ts (dBA)		
				Day			Evening		
Equipment		*Lmax	Leq	Lmax		Leq	Lmax	Leq	
Crane		66.2	2 58	.3 N/A		N/A	N/A	N/A	
Grader		70.7	7 66	.7 N/A		N/A	N/A	N/A	
Paver		62.9	9 59	.9 N/A		N/A	N/A	N/A	
Compactor (ground)		68.9	9 61	.9 N/A		N/A	N/A	N/A	
Roller		65.7	7 58	.7 N/A		N/A	N/A	N/A	
Dozer		67.3	3 63	.4 N/A		N/A	N/A	N/A	
Front End Loader		64.8		.8 N/A		N/A	N/A	N/A	
Backhoe		63.2		.3 N/A		N/A	N/A	N/A	
	Total	70.7		.1 N/A		N/A	N/A	N/A	
		*Calculate	ed Lmax is t	the Lou	dest val	lue.			
			Roadway	Constr	uction	Noise Mod	el (RCNM),	Version 1.3	1
Report date:	10/4/2019	Э							
Case Description:	De Soto Tanks EII	R - Pipe Insta	allation						
					0000	vr #1			
		Baselines	(ABV)	K	ecept0	or #1			
Description	Land Use	Daytime	Evening	Niah	+				
Nearest Source -Receiver 30'	Residential	Daytime 65		Nigh 50	ւ 55				
Treatest Souther Thecetivet SU	nesidential	0.	, (		JJ				
				Equi	pment				
				Spec	: .	Actual	Receptor	Estimate	d
		Impact		Lmax		Lmax	Distance	Shielding	3
Description		Device	Usage(%	) (dBA	()	(dBA)	(feet)	(dBA)	

dBA) (feet) (dBA) 77.7 30 0

(dBA)

Usage(%) (dBA)

40

Device

No

Description

Compressor (air)

Drill Rig Truck	No	20		79.1	40	0
Crane	No	16		80.6	50	0
Excavator	No	40		80.7	75	0
Man Lift	No	20		74.7	85	0
Generator	No	50		80.6	100	0
Pumps	No	50		80.9	125	0
Front End Loader	No	40		79.1	75	0
Backhoe	No	40		77.6	50	0
Welder / Torch	No	40		74	100	0
All Other Equipment > 5 HP	No	50	85		150	0
Concrete Saw	No	20		89.6	125	0

		Results									
	Calculate	ed (dBA)		Noise Limit	s (dBA)						
			Day		Evening						
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq					
Compressor (air)	82	2.1 78.3	1 N/A	N/A	N/A	N/A					
Drill Rig Truck	81	1 74.:	1 N/A	N/A	N/A	N/A					
Crane	80	).6 72.0	6 N/A	N/A	N/A	N/A					
Excavator	77	7.2 73.2	2 N/A	N/A	N/A	N/A					
Man Lift	70	0.1 63.3	1 N/A	N/A	N/A	N/A					
Generator	74	1.6 71.0	6 N/A	N/A	N/A	N/A					
Pumps		73 70	0 N/A	N/A	N/A	N/A					
Front End Loader	75	5.6 71.0	6 N/A	N/A	N/A	N/A					
Backhoe	77	7.6 73.0	6 N/A	N/A	N/A	N/A					
Welder / Torch		68 64	4 N/A	N/A	N/A	N/A					
All Other Equipment > 5 HP	75	5.5 72.4	4 N/A	N/A	N/A	N/A					
Concrete Saw	81	6 74.0	6 N/A	N/A	N/A	N/A					
To	otal 82	2.1 83.8	8 N/A	N/A	N/A	N/A					

---- Receptor #2 ----

Baselines (dBA)

\*Calculated Lmax is the Loudest value.

Description Land Use Daytime Evening Night

Typical Source - Receiver 200' Residential 65 60 55

			Equipmer	nt		
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77	7 200	0
Drill Rig Truck	No	20		79	1 200	0
Crane	No	16		80	6 200	0
Excavator	No	40		80	7 200	0
Man Lift	No	20		74	7 200	0
Generator	No	50		80	6 200	0
Pumps	No	50		80	9 200	0
Front End Loader	No	40		79	1 200	0
Backhoe	No	40		77	6 200	0
Welder / Torch	No	40		•	4 200	0
All Other Equipment > 5 HP	No	50	8	5	200	0
Concrete Saw	No	20		89	6 200	0

		Results			
	Calculated (dBA)	Noise Limi	its (dBA)		
		Day		Evening	
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq
Compressor (air)	65.6	61.6 N/A	N/A	N/A	N/A
Drill Rig Truck	67.1	60.1 N/A	N/A	N/A	N/A
Crane	68.5	60.6 N/A	N/A	N/A	N/A
Excavator	68.7	64.7 N/A	N/A	N/A	N/A

Man Lift		62.7	7 55.	7 N/A	N/A	N/A	N/A
Generator		68.6		6 N/A	N/A	N/A	N/A
Pumps		68.9		9 N/A	N/A	N/A	N/A
Front End Loader		67.1		1 N/A	N/A	N/A	N/A
Backhoe		65.5		, 5 N/A	, N/A	, N/A	, N/A
Welder / Torch		62		8 N/A	N/A	N/A	, N/A
All Other Equipment > 5 HP		73		9 N/A	N/A	N/A	N/A
Concrete Saw		77.5		5 N/A	N/A	N/A	N/A
50	Total	77.5		6 N/A	N/A	N/A	N/A
			d Lmax is th	•	•	,	
				Re	ceptor #3		
		Baselines	-				
Description	Land Use	Daytime	Evening	Night			
Nearest Source - School	Residential	65	5 6	0	55		
				Equipr	nent		
				Equipr	Actual	Pocontor	Estimated
		Impact		Spec Lmax	Lmax	Receptor Distance	Shielding
Description		Device	Usage(%)		(dBA)	(feet)	(dBA)
Compressor (air)		No	Usage(70)		(ubA) 77.	. ,	• •
· · · · ·			20		77. 79.		
Drill Rig Truck		No					
Crane		No No	1 4		80. 80.		
Excavator		No					
Man Lift		No	20		74.		
Generator		No	50		80.		
Pumps		No	50		80.		
Front End Loader		No	41		79.		
Backhoe		No	41		77. -		
Welder / Torch		No	4		7-		
All Other Equipment > 5 HP		No	50		85	200	
Concrete Saw		No	20	U	89.	6 17!	5 0
				Result	:		
		Calculated	(dBA)	ilesuit.	Noise Lim	its (dRA)	
		Carcaratea	(abit)	Day	NOISE LIII	Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		71.6	•	7 N/A	N/A	N/A	N/A
Drill Rig Truck		69.6		6 N/A	N/A	N/A	N/A
Crane		72.6		6 N/A	N/A	N/A	N/A
Excavator		71.2		2 N/A	N/A	N/A	N/A
Man Lift		66.7		, 8 N/A	N/A	N/A	, N/A
Generator		71.1		1 N/A	N/A	N/A	N/A
Pumps		71.4		4 N/A	N/A	N/A	N/A
Front End Loader		67.1		1 N/A	N/A	N/A	N/A
Backhoe		68		4 N/A	N/A	N/A	N/A
Welder / Torch		64.5		5 N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		73		9 N/A	N/A	N/A	N/A
Concrete Saw		78.7		7 N/A	N/A	N/A	N/A
concrete saw	Total	78.7		8 N/A	N/A	N/A	N/A
	rotar		d Lmax is th		•	,,,	14//
		Carcarate		2000			
				Red	ceptor #4		
		Baselines	(dBA)				
Description	Land Use	Daytime		Night			
Typical Source - School	Residential	65	6	0	55		
				Equipr	nent		
				Spec	Actual	Receptor	Estimated
		Impact		Lmax	Lmax	Distance	Shielding
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)

Compressor (air)	No	40		77.7	300	0
Drill Rig Truck	No	20		79.1	300	0
Crane	No	16		80.6	300	0
Excavator	No	40		80.7	300	0
Man Lift	No	20		74.7	300	0
Generator	No	50		80.6	300	0
Pumps	No	50		80.9	300	0
Front End Loader	No	40		79.1	300	0
Backhoe	No	40		77.6	300	0
Welder / Torch	No	40		74	300	0
All Other Equipment > 5 HP	No	50	85		300	0
Concrete Saw	No	20		89.6	300	0

				Results			
		Calculated	Calculated (dBA)			imits (dBA)	
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		62.1	58.	1 N/A	N/A	N/A	N/A
Drill Rig Truck		63.6	56.	6 N/A	N/A	N/A	N/A
Crane		65	5	7 N/A	N/A	N/A	N/A
Excavator		65.1	61.	2 N/A	N/A	N/A	N/A
Man Lift		59.1	. 52.	1 N/A	N/A	N/A	N/A
Generator		65.1	62.	1 N/A	N/A	N/A	N/A
Pumps		65.4	62.	4 N/A	N/A	N/A	N/A
Front End Loader		63.5	59.	6 N/A	N/A	N/A	N/A
Backhoe		62	. 5	8 N/A	N/A	N/A	N/A
Welder / Torch		58.4	54.	5 N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		69.4	66.	4 N/A	N/A	N/A	N/A
Concrete Saw		74	. 6	7 N/A	N/A	N/A	N/A
	Total	74	72.	5 N/A	N/A	N/A	N/A

Report date: 10/2/2019

Case Description: De Soto Tanks EIR - Flow Control Station

---- Receptor #1 ----

Baselines (dBA)

\*Calculated Lmax is the Loudest value.

Description Land Use Daytime Evening Night

Nearest Source - Residence 300' Residential 65 60 55

			Equipm	ent			
			Spec	Actua	I	Receptor	Estimated
	Impact		Lmax	Lmax		Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)
Crane	No	16			80.6	400	0
Pumps	No	50			80.9	350	0
Pumps	No	50			80.9	400	0
All Other Equipment > 5 HP	No	50		85		300	0
Welder / Torch	No	40			74	350	0
Man Lift	No	20			74.7	400	0
Excavator	No	40			80.7	350	0
Backhoe	No	40			77.6	400	0
Roller	No	20			80	400	0
Generator	No	50			80.6	350	0
Compactor (ground)	No	20			83.2	400	0
Front End Loader	No	40			79.1	400	0

Tractor	No	40	84	350	0

					Results			
		Calculated	(dBA)			Noise Limits (dBA)		
					Day	Evening		
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq
Crane		62.5		54.5	N/A	N/A	N/A	N/A
Pumps		64		61	N/A	N/A	N/A	N/A
Pumps		62.9		59.9	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		69.4		66.4	N/A	N/A	N/A	N/A
Welder / Torch		57.1		53.1	N/A	N/A	N/A	N/A
Man Lift		56.6	j	49.6	N/A	N/A	N/A	N/A
Excavator		63.8	;	59.8	N/A	N/A	N/A	N/A
Backhoe		59.5		55.5	N/A	N/A	N/A	N/A
Roller		61.9		54.9	N/A	N/A	N/A	N/A
Generator		63.7		60.7	N/A	N/A	N/A	N/A
Compactor (ground)		65.2		58.2	N/A	N/A	N/A	N/A
Front End Loader		61		57.1	N/A	N/A	N/A	N/A
Tractor		67.1		63.1	N/A	N/A	N/A	N/A
	Total	69.4		71.2	N/A	N/A	N/A	N/A

<sup>\*</sup>Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description Land Use Daytime Evening Night Typical Source - Residence 500' Residential 65 60 55

Equipment	
Spec	F

				_qa.pc					
			Spec	Actu	al	Receptor	Estimated		
	Impact		Lmax	Lmax	(	Distance	Shielding		
Description	Device	Usage(%)	(dBA)	(dBA	)	(feet)	(dBA)		
Crane	No	16	i		80.6	600	0		
Pumps	No	50			80.9	550	0		
Pumps	No	50			80.9	600	0		
All Other Equipment > 5 HP	No	50		85		500	0		
Welder / Torch	No	40			74	600	0		
Man Lift	No	20			74.7	550	0		
Excavator	No	40			80.7	600	0		
Backhoe	No	40			77.6	500	0		
Roller	No	20			80	600	0		
Generator	No	50			80.6	500	0		
Compactor (ground)	No	20			83.2	600	0		
Front End Loader	No	40			79.1	550	0		
Tractor	No	40		84		600	0		

Result	S
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	Calculated (dBA	<b>a)</b>	Noise Li	imits (dBA)	
		Day		Evening	
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq
Crane	59	51 N/A	N/A	N/A	N/A
Pumps	60.1	57.1 N/A	N/A	N/A	N/A
Pumps	59.4	56.3 N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65	62 N/A	N/A	N/A	N/A
Welder / Torch	52.4	48.4 N/A	N/A	N/A	N/A
Man Lift	53.9	46.9 N/A	N/A	N/A	N/A
Excavator	59.1	55.1 N/A	N/A	N/A	N/A
Backhoe	57.6	53.6 N/A	N/A	N/A	N/A
Roller	58.4	51.4 N/A	N/A	N/A	N/A
Generator	60.6	57.6 N/A	N/A	N/A	N/A
Compactor (ground)	61.6	54.7 N/A	N/A	N/A	N/A
Front End Loader	58.3	54.3 N/A	N/A	N/A	N/A

Tractor	Total	62.4 65 *Calculate		N/A N/A e Loudes	N/A N/A t value.	N/A N/A	N/A N/A	
				Rece	eptor #3			
		Baselines (	dBA)		•			
Description	Land Use	Daytime	Evening	Night				
Nearest Source - School	Residential	65	60		55			
				Equipme				
				Spec	Actual	Receptor	Estimated	
Description		Impact	11(0/)	Lmax	Lmax	Distance	Shielding	
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	
Crane		No No	16 50		80. 80.			
Pumps Pumps		No	50		80. 80.			
All Other Equipment > 5 HP		No	50		85	9 15 15		
Welder / Torch		No	40			4 12		
Man Lift		No	20		, 74.			
Excavator		No	40		80.			
Backhoe		No	40		77.			
Roller		No	20		8			
Generator		No	50		80.			
Compactor (ground)		No	20		83.	2 15	0 0	
Front End Loader		No	40		79.	1 15	0 0	
Tractor		No	40		84	17	5 0	
				Results				
		Calculated	(dBA)		Noise Lim	its (dBA)		
				Day		Evening		
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq	
Crane		74.5		N/A	N/A	N/A	N/A	
Pumps		73		N/A	N/A	N/A	N/A	
Pumps		71.4		N/A	N/A	N/A	N/A	
All Other Equipment > 5 HP		75.5		N/A	N/A	N/A	N/A	
Welder / Torch		66		N/A	N/A	N/A	N/A	
Man Lift		65.2 72.8		N/A N/A	N/A	N/A	N/A	
Excavator Backhoe		69.6		N/A	N/A N/A	N/A N/A	N/A N/A	
Roller		72.4		N/A	N/A	N/A	N/A N/A	
Generator		69.7		N/A	N/A	N/A	N/A	
Compactor (ground)		73.7		N/A	N/A	N/A	N/A	
Front End Loader		69.6		N/A	N/A	N/A	N/A	
Tractor		73.1		N/A	N/A	N/A	, N/A	
	Total	75.5		N/A	N/A	N/A	N/A	
		*Calculate	d Lmax is th	e Loudes	t value.			
				Rece	eptor #4			
		Baselines (						
Description	Land Use	Daytime	· ·	Night				
Typical Source - School	Residential	65	60		55			
				Equipme				
				Spec	Actual	Receptor		
Description		Impact	110000(0/)	Lmax	Lmax	Distance	Shielding	
Description Crane		Device No	Usage(%) 16	(dBA)	(dBA) 80.	(feet) 6 26	(dBA) 0 0	
Pumps		No No	50		80. 80.			
Pumps		No	50		80. 80.			
All Other Equipment > 5 HP		No	50		85	9 26 26		
Welder / Torch		No	40			4 26		
			,,		,	20	-	

Man Lift	No	20	74.7	260	0
Excavator	No	40	80.7	260	0
Backhoe	No	40	77.6	260	0
Roller	No	20	80	260	0
Generator	No	50	80.6	260	0
Compactor (ground)	No	20	83.2	260	0
Front End Loader	No	40	79.1	260	0
Tractor	No	40	84	260	0

					Results			
		Calculated (dBA)				Noise Limi	ts (dBA)	
					Day		Evening	
Equipment		*Lmax	Leq		Lmax	Leq	Lmax	Leq
Crane		66.2		58.3	N/A	N/A	N/A	N/A
Pumps		66.6		63.6	N/A	N/A	N/A	N/A
Pumps		66.6		63.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		70.7		67.7	N/A	N/A	N/A	N/A
Welder / Torch		59.7		55.7	N/A	N/A	N/A	N/A
Man Lift		60.4		53.4	N/A	N/A	N/A	N/A
Excavator		66.4		62.4	N/A	N/A	N/A	N/A
Backhoe		63.2		59.3	N/A	N/A	N/A	N/A
Roller		65.7		58.7	N/A	N/A	N/A	N/A
Generator		66.3		63.3	N/A	N/A	N/A	N/A
Compactor (ground)		68.9		61.9	N/A	N/A	N/A	N/A
Front End Loader		64.8		60.8	N/A	N/A	N/A	N/A
Tractor		69.7		65.7	N/A	N/A	N/A	N/A
	Total	70.7		73.7	N/A	N/A	N/A	N/A

77.6

400

0

Report date: 10/2/2019

Backhoe

Case Description: De Soto Tanks EIR - Finish Grading / Site Improvements

---- Receptor #1 ----

Equipment

\*Calculated Lmax is the Loudest value.

Baselines (dBA)

Description Land Use Daytime Evening Night
Nearest Source - Residence 300' Residential 65 60 55

Receptor Estimated Spec Actual Impact Distance Shielding Lmax Lmax Description Device Usage(%) (dBA) (dBA) (feet) (dBA) Crane No 16 80.6 400 0 Grader 40 85 350 0 No Paver 50 77.2 400 0 No Compactor (ground) No 20 83.2 300 0 Roller No 20 80 350 0 Dozer No 40 81.7 400 0 40 350 0 Front End Loader No 79.1

40

	Calculated (dBA)		Noise Limits (dBA)		
		Day		Evening	
Equipment	*Lmax Leq	Lmax	Leq	Lmax	Leq
Crane	62.5	54.5 N/A	N/A	N/A	N/A
Grader	68.1	64.1 N/A	N/A	N/A	N/A

No

Paver		59.2	56.1	N/A	N/A		N/A	N/A	
Compactor (ground)		67.7	60.7	N/A	N/A		N/A	N/A	
Roller		63.1	56.1	N/A	N/A		N/A	N/A	
Dozer		63.6	59.6	N/A	N/A		N/A	N/A	
Front End Loader		62.2		N/A	N/A		N/A	N/A	
Backhoe		59.5		N/A	N/A		N/A	N/A	
	Total	68.1		N/A	N/A		N/A	, N/A	
	. 5 tu		d Lmax is th	-			,,,	,	
				Recep	otor #2				
		Baselines (	dBA)						
Description	Land Use	Daytime	Evening	Night					
Typical Source - Residence 500'	Residential	65	60	5	55				
				Equipme					
				Spec	Actua		Receptor	Estimated	
		Impact		Lmax	Lmax		Distance	Shielding	
Description		Device	Usage(%)	(dBA)	(dBA)		(feet)	(dBA)	
Crane		No	16			80.6	600		0
Grader		No	40	8	35		550	)	0
Paver		No	50			77.2	600	)	0
Compactor (ground)		No	20			83.2	500	)	0
Roller		No	20			80	600	)	0
Dozer		No	40			81.7	550	)	0
Front End Loader		No	40			79.1	600	)	0
Backhoe		No	40			77.6	500	)	0
				Results					
		Calculated	(dBA)		Noise	Limit	s (dBA)		
				Day			Evening		
Equipment		*Lmax	Leq	Lmax	Leq		Lmax	Leq	
Crane		59	51	N/A	N/A		N/A	N/A	
Grader		60.1	57.1	N/A	N/A		N/A	N/A	
Paver		59.4	56.3	N/A	N/A		N/A	N/A	
Compactor (ground)		65	62	N/A	N/A		N/A	N/A	
Roller		52.4	48.4	N/A	N/A		N/A	N/A	
Dozer		53.9	46.9	N/A	N/A		N/A	N/A	
Front End Loader		59.1	55.1	N/A	N/A		N/A	N/A	
Backhoe		57.6	53.6	N/A	N/A		N/A	N/A	
	Total	65	67.2	N/A	N/A		N/A	N/A	
		*Calculate	d Lmax is th	e Loudest	value.				
				Recep	otor #3				
		Baselines (							
	Land Use	Daytime	Evening	Night	_				
	Land Use Residential		Evening	_	55				
		Daytime	Evening	5					
		Daytime	Evening	Equipme	nt	ı	Pacantar	Estimated	ı
		Daytime 65	Evening	Equipme Spec	nt Actua		Receptor	Estimated	i
Nearest Source - School		Daytime 65 Impact	Evening 60	Equipment Spec Lmax	nt Actua Lmax		Distance	Shielding	i
Nearest Source - School  Description		Daytime 65 Impact Device	Evening 60 Usage(%)	Equipment Spec Lmax (dBA)	nt Actua		Distance (feet)	Shielding (dBA)	
Nearest Source - School  Description Crane		Daytime 65 Impact Device No	Evening 60 Usage(%) 16	Equipment Spec Lmax (dBA)	nt Actua Lmax (dBA)		Distance (feet)	Shielding (dBA)	0
Nearest Source - School  Description Crane Grader		Daytime 65 Impact Device No No	Evening 60 Usage(%) 16 40	Equipment Spec Lmax (dBA)	nt Actua Lmax	80.6	Distance (feet) 100 125	Shielding (dBA)	0
Nearest Source - School  Description Crane Grader Paver		Daytime 65 Impact Device No No	Evening 60  Usage(%) 16 40 50	Equipmer Spec Lmax (dBA)	nt Actua Lmax (dBA)	80.6 77.2	Distance (feet) 100 125 150	Shielding (dBA)	0 0 0
Nearest Source - School  Description Crane Grader Paver Compactor (ground)		Daytime 65  Impact Device No No No	Usage(%) 16 40 50	Equipment Spec Lmax (dBA)	nt Actua Lmax (dBA)	80.6 77.2 83.2	Distance (feet) 100 125 150	Shielding (dBA)	0 0 0
Nearest Source - School  Description Crane Grader Paver Compactor (ground) Roller		Daytime 65  Impact Device No No No No	Usage(%) 16 40 50 20	Equipmer Spec Lmax (dBA)	nt Actua Lmax (dBA)	80.6 77.2 83.2 80	Distance (feet) 100 125 150 150	Shielding (dBA)	0 0 0 0
Nearest Source - School  Description Crane Grader Paver Compactor (ground) Roller Dozer		Daytime 65  Impact Device No No No No No	Usage(%) 16 40 20 20 40	Equipment Spec Lmax (dBA)	nt Actua Lmax (dBA)	80.6 77.2 83.2 80 81.7	Distance (feet) 100 125 150 150 125	Shielding (dBA)	0 0 0 0
Description Nearest Source - School  Description Crane Grader Paver Compactor (ground) Roller Dozer Front End Loader Backhoe		Daytime 65  Impact Device No No No No	Usage(%) 16 40 50 20	Equipmer Spec Lmax (dBA)	nt Actua Lmax (dBA)	80.6 77.2 83.2 80	Distance (feet) 100 125 150 150	Shielding (dBA)	0 0 0 0

Results

		Calculated	d (dBA)			Nois	e Limit	ts (dBA)		
			. (,		Day			Evening		
Equipment		*Lmax	Leq		Lmax	Leq		Lmax	Leq	
Crane		74.	5	66.6	N/A	N/A		N/A	N/A	
Grader		7.	3	70	N/A	N/A		N/A	N/A	
Paver		71.	4	68.4	N/A	N/A		N/A	N/A	
Compactor (ground)		75.	5	72.4	N/A	N/A		N/A	N/A	
Roller		6	6	62.1	N/A	N/A		N/A	N/A	
Dozer		65.	2	58.2	N/A	N/A		N/A	N/A	
Front End Loader		72.	8	68.8	N/A	N/A		N/A	N/A	
Backhoe		69.	6	65.6	N/A	N/A		N/A	N/A	
	Total	75.	5	78.9	N/A	N/A		N/A	N/A	
		*Calculate	ed Lmax	is th	e Loude	st value.				
					Rec	eptor #4				
		Baselines	(dBA)		1100	cptor ii i				
Description	Land Use	Daytime	Eveni	ng	Night					
Typical Source - School	Residential	6		60	-	55				
					Equipn	nent				
					Spec	Actu	al	Receptor	Estima	ted
		Impact			Lmax	Lmax		Distance	Shieldi	
Description		Device	Usage	e(%)	(dBA)	(dBA		(feet)	(dBA)	0
Crane		No		16		(*	80.6	. ,	, ,	0
Grader		No		40		85		26	0	0
Paver		No		50			77.2	26	0	0
Compactor (ground)		No		20			83.2	26	0	0
Roller		No		20			80	26	0	0
Dozer		No		40			81.7	26	0	0
Front End Loader		No		40			79.1	. 26	0	0
Backhoe		No		40			77.6	26	0	0
					Results	;				
		Calculated	d (dBA)			Nois	e Limi	ts (dBA)		
					Day			Evening		
Equipment		*Lmax	Leq		Lmax	Leq		Lmax	Leq	
Crane		66.	2	58.3	N/A	N/A		N/A	N/A	
Grader		66.	6	63.6	N/A	N/A		N/A	N/A	
Paver		66.	6	63.6	N/A	N/A		N/A	N/A	
Compactor (ground)		70.	7	67.7	N/A	N/A		N/A	N/A	
Roller		59.	7	55.7	N/A	N/A		N/A	N/A	
Dozer		60.	4	53.4	N/A	N/A		N/A	N/A	
Front End Loader		66.	4	62.4	N/A	N/A		N/A	N/A	
5 11			_							

63.2

70.7

Total

59.3 N/A

73.7 N/A

\*Calculated Lmax is the Loudest value.

N/A

N/A

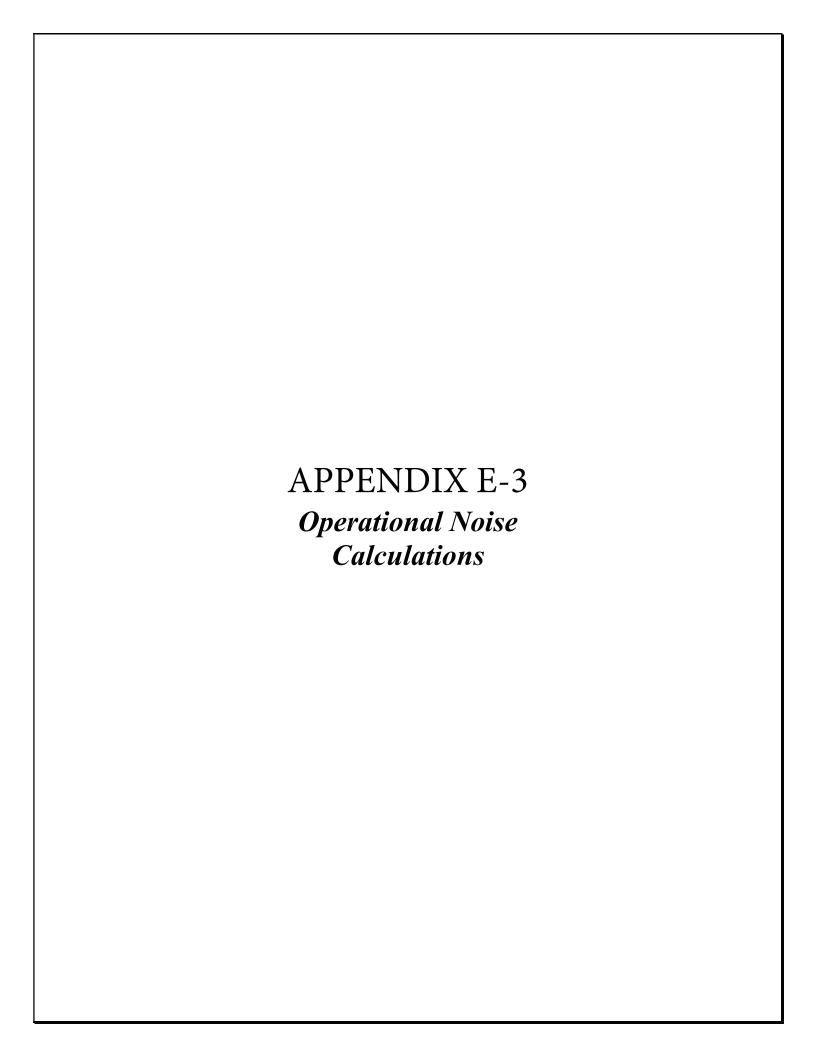
N/A

N/A

N/A

N/A

Backhoe



#### **LADWP De Soto Tanks EIR**

#### Operational Noise - Pump Station (Daytime)

Based on e-mails from Applicant, 1 to 3 of 4 pumps would be operational at any one time to meet demand.

Pumps would be enclosed within a masonry building, fitted with vents and with an HVAC system. Assume that building would provide a minimum of 30 dB noise reduction.

Assumed pump noise source level: 99 dBA at 3.28 feet
Assumed HVAC noise source level: 83 dBA at 3.28 feet

Distance to nearest NSLU (School to the south) 100 feet
Distance to the nearest residence: 400 feet

#### At the school to the south:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

44.1 dBA Pumps 53.3 dBA HVAC **53.8 dBA Total** 

Ambient noise level at the school (from noise measurements):

59.3 dBA Lea

Combined noise levels (ambient plus mechanical):

60.4 dBA L<sub>eq</sub>

Resulting increase: 1.1 dBA

#### At the nearest residence, to the southeast:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

32.0 dBA Pumps

41.3 dBA HVAC

41.8 dBA Total

Ambient noise level at the residences (from noise measurements):

57.3 dBA  $L_{eq}$ 

Combined noise levels (ambient plus mechanical):		
	57.4 dBA L <sub>eq</sub>	
Resulting increase:	0.1 dBA	
Operational Noise - Pump Station (Nighttime)		
Based on e-mails from Applicant, 1 to 3 of 4 pumps would	be operational at any one ti	me to meet demand.
rumps would be enclosed within a masonry building, fitte	d with vents and with an HV	AC system. Assume that building would provide a minimum of 30 dB noise reduction
Assumed pump noise source level:	99 dBA at 3.28 feet	(Interior)
Assumed HVAC noise source level:	83 dBA at 3.28 feet	(Exterior
Distance to the nearest residence:	400 feet	
At the nearest residence, to the southeast:		
Estimated pump noise level with building, assuming 3 pun	nps operating and HVAC exte 32.0 dBA Pumps	erior to building
	41.3 dBA HVAC	
	41.8 dBA Total	
Ambient nighttime noise level at the residences (estimate	ed):	
· ·	46.7 dBA L <sub>eq</sub>	
Combined noise levels (ambient plus mechanical):		
	47.9 dBA L <sub>eq</sub>	

Distance to nearest NSLU (School to the south)

At the school to the south:

Estimated pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

44.1 dBA Pumps

53.3 dBA HVAC

53.8 dBA Total

Ambient nighttime noise level at the school (estimated):

48.5 dBA L<sub>eq</sub>

Combined noise levels (ambient plus mechanical):

54.9 dBA L<sub>ea</sub>

Resulting increase:

6 dBA

BUT, this is N/A because the school would not be operational during nighttime hours, typically.

#### Operational Noise - Generator (Daytime Only)

Emergency Generator (30 minutes per month)

Based upon provided spec's, generator would be housed within an enclosure alongside the pump station building and fitted with a silencer

Assumed generator noise source level: 65.8 dBA at 23 feet (with silencer and enclosure)

Distance to nearest NSLU (School to the south) 100 feet
Distance to the nearest residence: 400 feet

#### At the school to the south:

Estimated generator noise plus pump noise level with building, assuming 3 pumps operating and HVAC exterior to building

53.0 dBA Generator

Ambient noise level at the school (from noise measureme	nts): 59.3 dBA L <sub>eq</sub>
Combined noise levels (ambient plus mechanical):	
	61.1 dBA L <sub>eq</sub>
Resulting increase:	1.8 dBA
At the nearest residence, to the southeast: Estimated generator noise plus pump noise level with buil	ding, assuming 3 pumps operating and HVAC exterior to building 41.0 dBA Generator 41.8 dBA Pumps and HVAC 44.4 dBA Total
Ambient noise level at the residences (from noise measure	ements): 57.3 dBA L <sub>eq</sub>
Combined noise levels (ambient plus mechanical):	
	57.5 dBA L <sub>eq</sub>

0.2 dBA

Resulting increase:

53.8 dBA Pumps and HVAC

56.4 dBA Total



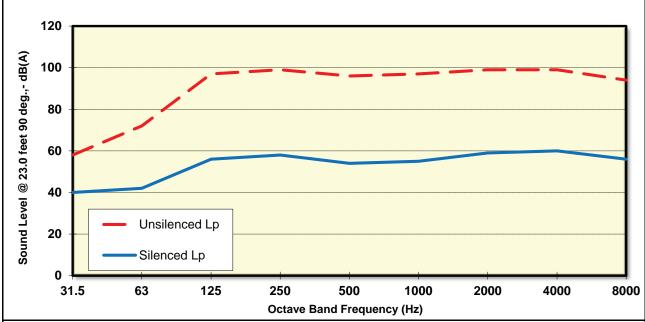
### **Engine Silencer Performance Summary**

customer kypos					Date:	2-Abi-10		
Project Name	ject Name CAT 3516C extended length ADPF7				Ву:	By: R. Evans		
	Engine Details				Piping I	Details		
Engine Make		C	AT	Pipe Diameter				
Engine Type		35	16C	Straight Pipe Length				
Exhaust Flow Rate		18,805	cfm	Number of Sawcut I	Elbows		0	
Exhaust Temperature		850.0	°F	Number of 90 deg. I	Long Radius Elbow	/S	0	
Max Allowable Backpre	ssure	10	inch WG	Number of 90 deg. S	Short Radius Elbov	NS	0	
Silencer Performance			Sile	encer Details for P	art Number:	0		

Silencer Performance			Silencer Details for Part Number: 0		
Silencer Backpressure	5.10	inch WG	No. of Silencers per Engine	1	
Total Backpressure	5.10	inch WG	Inlet Size/Outlet size (NB)	22 inches	
Calculated Exhaust Gas Velocity	7129.9	ft/min	Silencer Type & Silencing Grade	Hospital	
Required Sound Level- Lp	70.0	dB(A)	Inlet-Outlet Configuration	Bottom In/Top Out	
Required Lp at:	23.0 feet	90 deg	Silencer Shape	Box	
Predicted Insertion Loss	40.2	dB	Silencer Material	Mild Steel	
Predicted Sound Level	65.8	dB(A)	Silencer Finish	Hi-Temp Gray Paint	

Predicted Silencer Performance Curve- Sound Level @ 23.0 feet 90 deg.,- dB(A)

Frequency Hz	Total	31.5	63	125	250	500	1000	2000	4000	8000
Unsilenced Lp	106.1	58	72	97	99	96	97	99	99	94
Silenced Lp	65.8	40	42	56	58	54	55	59	60	56



#### Comments:

Extended length ADPF7 with 22" DIA outlet

Backpressure estimates do not include DPF elements, catalyst elements, transfer tubes or external piping.

Sound levels and backpressures are predictions based on typical silencer performance. Actual results will vary depend on a number of factors affecting the individual application & installation. Calculations shown are estimates only and do NOT constitute a warranty.