FUEL COMBUSTION - INDUSTRIAL STATIONARY I.C. ENGINES - OTHER FUEL

Prepared By: Hao Quinn Date: February 14, 2019

EMISSION INVENTORY SOURCE CATEGORY

This area source methodology is used for determining emissions from all stationary non-agricultural engines using "other fuel" except diesel, natural gas, landfill gas and digester gas. For Sacramento, "Other Fuel" for this EIC includes propane and gasoline. All landfill gas powered engines in Sacramento County are inventoried as a point source, F#196 Kiefer Landfill, and their emissions are categorized under emission summary code Fuel Combustion (010-Electric Utilities). Emissions from engines powered by digester gas, mainly from dairy cow operations, are inventoried under area source EIC 099-080-0012-0000 Other (Fuel Combustion) – Resource Recovery. The table below summarized the emission inventory categories for non-agricultural stationary I.C. engines.

EIC	Description	Fuel
010-040-0142-0000 (PS only)	Electric Utilities - IC Engines	Landfill Gas
050-040-0012-0000	Industrial Stationary IC Engines	Propane & Gasoline
050-040-0110-0000	Industrial Stationary IC Engines	Natural Gas
050-040-1200-0000 (PS only)	Industrial Stationary IC Engines	Diesel
060-040-1200-0000 (PS only)	Commercial Stationary IC Engines	Diesel
099-040-1200-0000	Stationary Non-Ag IC Engines	Diesel
	Other(Fuel Combustion) - Resource Recovery,	
099-080-0012-0000	IC Engines (mainly from diary operations)	Digester Gas
	Other(Fuel Combustion), Big & Baby Brannon	
	Island Compressors F#4716,F#4720, should be	
	EIC 030-309-0100-0000 lateral compressor	
	instead (SIC1311/SCC20300201 has no EIC	
099-995-0000-0000 (PS only)	assignment)	Natural Gas

EMISSION INVENTORY CODES (CES CODES) AND DESCRIPTION

050-040-0012-0000 (82107) – Industrial Stationary I.C. Engines – Other Fuel Equipment types accounted for in this EIC include prime and backup generators, prime and backup pumps, and other miscellaneous stationary engines powered by propane and gasoline. This EIC includes both area source and point source emissions. Since there is no separate EIC code for commercial engines; this EIC includes emissions from both industrial and commercial engines.

METHOD SUMMARY

There are 42 stationary engines powered by propane and gasoline in the SMAQMD permit database (May 31, 2018). Table 1 presents the population of the permitted stationary propane and gasoline engines by equipment type and horsepower (HP) class

in Sacramento County. All 37 propane engines are backup units. There are 2 backup gasoline engines and 3 prime gasoline engines.

Table 1. Summary	of Permitted Stati	onary I.C. Eng	ines (Othe	r Fuel) in	
Equipment Type	HP Class	Average	e HP	Popul	ation
	50-100 hp	81		10	
Backup Engines	100-175 hp	128		24	
Propane	175-300 hp 230 143 1 37				
Proparie	300-600 hp	460		1	
	600-750 hp	739	9 1		
Prime Engines -	all ha	0	0	0	0
Propane	ан пр	U	U	U	U
Backup Engines-	175-300 hp				
Gasoline					
Prime Engines -					
Gasoline					
Total			·		42

This methodology assumes that the population, equipment type, activity and emissions from the district permitted propane and gasoline engines represent the emission inventory for EIC 050-040-0012-0000 (Industrial Stationary I.C. Engines – Other Fuel) in Sacramento County.

The emissions for the 2017 stationary (other fuel) engines were determined by summing the emissions from all propane and gasoline engines in the district permit database (May 31, 2018). The emissions for each engine is calculated by multiplying BHP, hours of operation (hours/year) and emission factor (grams/hp_hr). The emission factors used are based on the emission limits set in the permit. Load factor is not accounted for in the engine emission calculation. Table 2 presents the 2017 emission inventory for stationary non-agricultural (other fuel) engines in Sacramento County.

Table 2. Emission Inventor	y of Stationa	ry Non-Agri	cultural (Oth	er Fuel) Engi	nes in										
Sacramento County															
	2017 Emission (Tons/Yr)														
Equipment Type	VOC	NOx	. , ,												
Backup Engines-Propane	0.07	0.76	0.0003	0.01	2.01										
Backup Engines-Gasoline	0.008	0.004	0.0002	0.0003	0.003										
Prime Engines-Gasoline	0.80	0.59	0.03	0.04	0.37										
Total	0.88	1.34	0.03	0.05	2.39										

ACTIVITY

The activity in annual hours of operation for each engine was based on (1) first, the 2017 survey data, if available, (2) second, the permit inspection report, if available, and (3) lastly, the average activity of the known engines. The activities for 2 engines inventoried under point source inventory were based on 2017 point source survey. The

activities for 38 engines were from the inspection reports. The activities for the remaining 2 engines (propane standby engines) without data were based on the average activity of the standby engines with known activities.

EMISSION CALCULATION

Emissions for each permitted engine are estimated using BHP, emission factor (grams/HP_hr), hours of operation and Equation 1.

Equation 1:

Emission (lbs/year) = Hours of Operation/Year * BHP * Load Factor * Emission Factor (grams/HP_hr) / 453.59 grams/lb

BHP is the maximum brake horsepower of the engine identified by the permit. Hours of Operation/Year is described in the Activity section. Load factor is the average operation level for a given application expressed as a fraction of the engine manufacturer's maximum horsepower rating. Since there is no data on load factor for the Sacramento engines, load factor is assumed to equal 1 in the emission calculation, resulting in an upper bound on the emission inventory.

Attachment A contains the list of permitted propane and gasoline engines with BHP, activity, emission factors and emissions.

POINT SOURCE & AREA SOURCE RECONCILIATION

There are 2 propane I.C. engines inventoried under point source, F#3042 Paramount (Alon Asphalt Company) and F#192 A. Teichert & Son. They are reconciled under EIC 050-040-0012-0000 (Industrial Stationary I.C. Engines – Other Fuel). Attachment B contains the CEIDARS reconciliation report for EIC 050-040-0012-0000.

The Excel spreadsheet used for the emission calculations can be found at: \\\Fs-\\0921\global\\PCD Folders\\Emissions Inventory\\Area Sources\\050 - Fuel Combustion - \\\Manufacturing & Industrial\\Industrial Stationary IC Engines\\2017 Other Fuel ICE\\\2017 Industrial ICE- Other Fuel.xlsx

EMISSION SUMMARY

ACTIVITY DATA SOURCE: SMAQMD Permit Database (May 31, 2018);

Inspection Reports; Point Source Survey

DATE OF THE LAST UPDATE: September 23, 2013 (Not updated to CEIDARS);

August 25, 2011 (last update to CEIDARS)

EMISSION FACTOR SOURCE: Permit Limit

TEMPORAL DATA:

Daily Activity: 24 hours per day Weekly Activity: 7 days/week

Monthly Activity: Uniform

EIC 050-040-0012-0000 STATIONARY NON-AGRICULTURAL ENGINES – OTHER FUEL

Month	1	2	3	4	5	6	7	8	9	10	11	12
%	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3

Source: The relative monthly activity of the stationary (other fuel) I.C. engines is assumed to be uniform throughout the year.

EMISSIONS (2017 - ANNUAL AVERAGE TONS/DAY) UNRECONCILED

EIC	VOC	NOx	Sox	PM10	СО
050-040-0012-0000					
Industrial Stationary I.C. Engine - Other Fuel	0.88	1.34	0.03	0.05	2.39

CONTROL PROFILE

None. Rule 412, IC Engine, only applies to major NOx sources and exempts emergency standby engines.

GROWTH PROFILE

Currently there is no growth parameter assigned to EIC 099-040-0012-0000 (Stationary Non-Agricultural Engines –Other Fuel).

CHANGES FROM PREVIOUS ESTIMATE

Changes from the 2010 and 2011 inventories are:

- 1. 2017 Methodology (current estimate) excludes emissions from engines powered by digester gas which are accounted for under EIC 099-080-0012-0000 Other (Fuel Combustion) Resource Recovery.
- 2. 2017 Methodology uses activity data based on (1) first, the 2017 survey data, if available, (2) second, the permit inspection report, if available, and (3) lastly, the average activity of the known engines. The 2010 Methodology and 2011 Methodology used actual emissions if available and potential to emit (PTE) emissions if unknown. The emissions for many of the engines in the 2010 and 2011 estimates were based on PTE emissions resulting in overestimation of the emissions.
- 3. The following compares 2017 emissions from 2017 Methodology and current 2017 CEIDARS emissions for EIC 050-040-0012-0000 (Stationary Non-Agricultural Engines Other Fuel). Current CEIDARS 2017 emissions are 2010 Methodology emissions.

				2017 E	mission	s (Tons	/Year)									
		2017 N	Viethoo	dology		CEIDARS - current inventory										
EIC	voc	NOx	Sox	PM10	СО	voc	NOx	Sox	PM10	СО						
050-040-0012-0000																
Industrial Stationary																
I.C. Engine - Other																
Fuel	0.88	1.34	0.03	0.05	2.39	9.63	14.98	2.75	1.08	27.64						

NEEDED CLARIFICATIONS/CORRECTIONS TO CURRENT METHOD

 There is no data on load factor for the district permitted engines. Load factor is not accounted for, and is assumed equal 1 in the emission calculation. The engines are assumed to be operated at maximum brake horsepower.

FUTURE PLANS FOR METHOD UPDATE/REVISION

1. Next scheduled update is in 2021 using 2020 data.

P:\PCD Folders\Emissions Inventory\Area Sources\050 - Fuel Combustion - Manufacturing & Industrial\Industrial Stationary IC Engines\2017 Other Fuel ICE\2017 STATIONARY Other Fuel IC ENGINE (no load factor 20190214).docx Hao Quinn 2/19/2019

ATTACHMENT A:

Permitted Propane And Gasoline Engines With BHP, Activity, Emission Factors And Emissions

2017 Emission from Propane and Gasoline I.C. Engines Permits

												HP			(g/hp_hr ex		ed)					nission (lbs/		
IENTNC	COMPANY	FacilNo Stno	Street	Citylocat	Ро	POStatus	Descript	Fuel	Hours	Source/Note	DescriptSpe	Feerate	VOC	NOx	Sox	PM10	СО	CO used	EF Source	VOC	NOx	Sox	PM10	со
2394	CESSNA AIRCRAFT COMPANY	4194 5850	CITATION WAY	SACRAMENTO	17766	ACTIVE	IC ENGINE SPARK - PRIME	Gasoline	1536.1	2018/2017 inspection using	IC ENGINE PRIME POWER	64	6.81	4.99	0.27	0.33	199		AP42, Tble 3.3-1, CO used is from AP42	1476	1082	59	72	684
	SACRAMENTO SUBURBAN WATER		VARIOUS				IC ENGINE SPARK -			2018/2017 inspection using	IC ENGINE PRIME													
2239	DISTRICT	4338	LOCATIONS	SACRAMENTO	17788	ACTIVE	PRIME IC ENGINE	Gasoline	1.9	meter reading	POWER IC ENGINE	67	9.8	4.99	0.025	0.327	199.1	3.16E+00	AP42	3	1	0	0	1
3282	DON'S TREE SERVICE	5733 8555	FLORIN RD, #4	SACRAMENTO	22381	ACTIVE	SPARK - PRIME IC ENGINE	Gasoline	73.7	2017/2015 inspection using meter reading	PRIME POWER	108	6.8	4.99	0.27	0.33	3.16	3.16E+00	AP42	119	88	5	6	55
276	STATE OF CALIF CALTRANS	5957	TOWER BRIDGE	STATE ROUTE 275	22996	ACTIVE	SPARK - STANDBY	Gasoline	10	2017 inspection	IC ENGINE STANDBY	77	9.79	4.99	0.268	0.327	3.16	3.16E+00	AP42	17	8	0	1	5
1593	MACYS WEST	2097 6180	SUNRISE BLVD	CITRUS HEIGHTS	13899	ACTIVE	IC ENGINE SPARK - STANDBY	Gasoline	0	cancelled june 2018, 2015/2016 Inspection	IC ENGINE STANDBY	134	9.7	5.2	0.3	0.3	199	3.16E+00	AP42	0	0	0	0	0
	COSUMNES FIRE						IC ENGINE SPARK -				IC ENGINE STANDBY -													
1012	DEPT ESKATON PROPERTIES INC	4767 10035	ATKIN DR	ELK GROVE	20925	ACTIVE	IC ENGINE	Propane	28.6	2016/2017 inspection	PROPANE	57	0.128	0.076	0.002	0.152	0.029		AP42, Tble 3.2-3 lbs/mmbtu, converted from	0	0	0	1	0
3518	DBA ESKATON MONROE LODGE	6107 3225	FREEPORT BLVD	SACRAMENTO	23457	ACTIVE	SPARK - STANDBY IC ENGINE	Propane	6.9	2015/2016 Inspection	IC ENGINE STANDBY	60	0.118	0.848	0.000588	0.01	0.556		lbs/mmcf using 2500 btu/cf	1	6	0	0	4
2348	TARGET CORPORATION	4741 5837	SUNRISE BLVD	CITRUS HEIGHTS	19126	ACTIVE	SPARK - STANDBY IC ENGINE	Propane	3.9	2017 inspection	IC ENGINE STANDBY	67	1.1	10.3	0.002	0.152	2.5		Mfg EF	1	6	0	0	1
2839	AT&T MOBILITY COUNTY OF SAC,	5062 15731	JACKSON RD (HWY 16)	RANCHO MURIETA	20135	ACTIVE	SPARK - STANDBY	Propane	20.8	2012 Inspection	IC ENGINE STANDBY	75	0.5	1	0.002	0.152	1		Mfg EF	2	3	0	1	3
2251	DEPT OF TRANSPORTATION OPERATIONS	5686	WALNUT GROVE BRIDGE RD	WALNUT GROVE	22220	ACTIVE	IC ENGINE SPARK - STANDBY	Propage	5.3	2016 Inspection	IC ENGINE STANDBY	78	2.2	2.2	0.002	0.152	8.4		CARB Cert	2	2	0	0	
3231	RANCHO MURIETA	3080	DRIDGE RD	WALNOT GROVE	22230	ACTIVE	IC ENGINE	Торане	5.5	2010 IIISPECTION	IC ENGINE STANDBY/	70	2.2	2.2	0.002	0.132	0.4		NOx&VOC Bact	2		0		
385	SERVICES DIST WESTERN AREA POWER	6172 7291	BRIDGE HOUSE LN	RANCHO CORDOVA	23664	ACTIVE	STANDBY IC ENGINE SPARK -	LPG	10.4	2016 inspection	P IC ENGINE	85.3	1	1	0.002	0.152	6.02		standard	2	2	0	0	12
1323	ADMINISTRATION	5242 7940	SORENTO RD CLAY STATION RD	ELVERTA	20839	ACTIVE	STANDBY IC ENGINE SPARK -	Propane	7.91	2017 inspection	STANDBY IC ENGINE	87	0.042	0.99	0.002	0.152	0.862		AP42	0	2	0	0	1
2207	VERIZON WIRELESS	4416	@ HOBDAY	HERALD	18065	ACTIVE		Propane	11.66	2015 Inspection	STANDBY	99	0.9	0.24	0.002	0.152	1.27		Mfg EF	2	1	0	0	3
2558	VERIZON WIRELESS	5622 7551	GREENBACK LN	CITRUS HEIGHTS	22521	ACTIVE	STANDBY	LPG	18.82	2016 inspection	IC ENGINE	99.15	0.01	0.01	0.002	0.152	0.76		Nox, VOC & CO are Mfg EF	0	0	0	1	3
1682	MCI WORLDCOM	3537 2001	B ST	SACRAMENTO	15732	ACTIVE	IC ENGINE SPARK - STANDBY	Propane	7 :	2015 Inspection	IC ENGINE STANDBY - PROPANE	100	1.1	0.6	0.002	0.152	179.1		District BACT	2	1	0	0	276
	COMCAST - PERKINS						IC ENGINE SPARK -				IC ENGINE STANDBY/													
	HUB SITE	6321 730	LST	RIO LINDA			IC ENGINE SPARK -			2016 inspection	IC ENGINE	102	2	1.35	0.004	0.13	212.8		Mfg EF	28	19	- 0		2961
	VERIZON WIRELESS		LIVE OAK RD	GALT			IC ENGINE SPARK -	Propane		2015 Inspection	IC ENGINE STANDBY	107	0.75	0.01	0.002	0.152	0.78		Mfg EF	2	. 0	0	0	2
2207	VERIZON WIRELESS	5224 724	LSTREET	RIO LINDA	20910	ACTIVE	IC ENGINE SPARK -	Propane	22.41	2017 inspection	IC ENGINE	107	0.31	0.74	0.002	0.152	1.44		Mfg EF	2	4	0	1	8
2207	VERIZON WIRELESS	5455 6837	POWER INN RD	SACRAMENTO	21455	ACTIVE	STANDBY IC ENGINE	Propane	14.23	2016 inspection	STANDBY/ PROPANE	107	0.31	1.202	0.002	0.069	1.964		AP42, Tble 3.2-3	1	4	0	0	7
2207	VERIZON WIRELESS	5496 4390	DEL PASO RD	SACRAMENTO	21589	ACTIVE	SPARK - STANDBY IC ENGINE	Propane	16.65	2017 inspection	IC ENGINE STANDBY	107	0.31	0.74	0.002	0.152	1.44		Mfg EF	1	3	0	1	6
2558	VERIZON WIRELESS	5278 9292	BLVD	ELK GROVE	21702	ACTIVE	SPARK - STANDBY	Propane	11.77	2015 Inspection	IC ENGINE STANDBY	107	0.31	0.74	0.002	0.152	1.44		Mfg EF	1	2	0	0	4
2486	U.S. DEPT OF INTERIOR, BUREAU OF RECLAMATION	5208 1901	HAZEL AVE	GOLD RIVER	20398	ACTIVE	IC ENGINE SPARK - STANDBY	Propane	11.3	2015/2016 Inspection	IC ENGINE STANDBY	111.5	0.14	9.98	0.002	0.152	8.62		AP42, Tble 3.2-1	0	28	0	0	24

2017 Emission from Propane and Gasoline I.C. Engines Permits

NTNO	COMPANY	FacilNo	Stoo	Street	Citylocat	Po	DUC+*+***	Descript	Fuel	Hours Source/Note	DescriptSpe	HP	VOC	sion Factor (NOx	g/hp_hr ex Sox	PM10		CO used EF Source	e VOC	NOx	Emission (Ib	PM10)
NTNU	COMPANT	Facilino	31110	Street	Citylocat	PU	POStatus	IC ENGINE	ruei	Hours Source/Note	Descriptsper	reerate	VOC	NUX	SUX	PIVITU	CO	CO used EF Source	e voc	NOX	SUX	PIVITU	\equiv
	COSUMNES FIRE							SPARK -			IC ENGINE												
1012	COUNTY OF SAC,	2998	229	5TH ST	GALT	20947	ACTIVE	STANDBY	Propane	13.5 2016 inspection	STANDBY	112	0.14	9.98	0.002	0.152	8.62	AP42	0	33	0	1	+
	DEPT OF							IC ENGINE			IC ENGINE												
	TRANSPORTATION			TYLER ISLAND				SPARK -			STANDBY/												
3251	OPERATIONS	5917		BRGD RD	ISLETON	22912	ACTIVE	STANDBY	LPG	4.1 2016 inspection	P	115	0.101	7.518	0.002	0.066	12.655	Ap42, chapter	3 0	8	0	0	
	SACRAMENTO							IC ENGINE															
114	METROPOLITAN FIRE DISTRICT	4751	1444	EACTEDNI AVE	CACDAMENTO	10150	A CTIVE	SPARK - STANDBY	Dennes	0.6 2013/2014 inspection	IC ENGINE STANDBY	120	0.10	1.40	0.000	0.153	0.115	Nove.co mfa	0			0	
	SACRAMENTO	4/51	1444	EASTERN AVE	SACRAMENTO	19156	ACTIVE	IC FNGINE	Propane	0.6 2013/2014 Hispection	STANDBI	126	0.19	1.46	0.002	0.152	0.115	Nox&CO mfg	0	U	U	U	-
	METROPOLITAN							SPARK -			IC ENGINE												
114	FIRE DISTRICT	4752	8890	ROEDIGER LANE	FAIR OAKS	19159	ACTIVE	STANDBY	Propane	20.8 2016 inspection	STANDBY	126	0.19	1.46	0.002	0.152	0.115	Nox&CO mfg	1	8	0	1	
								IC ENGINE															
257	A. TEICHERT & SON	400	0700	KIEFER BLVD	CA CRANACTO	40477	A CTIVE	SPARK - STANDBY	LPG	2.5. 2017	IC ENGINE STANDBY	426		2 45 4	0.00055		60.205	Ca 9 Dh 410 :-	h /h		0		
257	CITIZENS	192	8760	KIEFEK BLVD	SACRAMENTO	194/2	ACTIVE	IC FNGINE	LPG	3.5 2017 ps survey	STANDBY	126	1.119	3.154	0.00065	0.0214	69.385	Sox&PM10 in	D/Nr 1	3	0	0	+
	TELECOMMUNICATI							SPARK -			IC ENGINE												
1318	ONS COMPANY	5382	12461	BRUCEVILLE RD.	ELK GROVE	21180	ACTIVE	STANDBY	Propane	34.2 2017/2018 inspection	STANDBY	126	0.19	1.48	0.002	0.152	0.115	Mfg EF	2	14	0	1	
	SACRAMENTO							IC ENGINE															Т
	METROPOLITAN							SPARK -			IC ENGINE												
114	FIRE DISTRICT	5438	8681	GREENBACK LN	ORANGEVALE	21385	ACTIVE	STANDBY	LPG	14.4 2016/2017 inspection	STANDBY	126	0.14	1.47	0.002	0.152	0.13	Nox&CO mfg	1	6	0	1	+
								IC ENGINE			IC ENGINE												
	DEL PASO MANOR			EL CAMINO/WATT				SPARK -			STANDBY -												
1571	WATER DIST	1962		AVE	SACRAMENTO	13620	ACTIVE	STANDBY	Propane	0.9 2016 inspection	PROPANE	128	0.72	1.4	0.002	0.152	1.6	AP42, Tble 3.4	-1 0	0	0	0	
																							Т
	COUNTY OF							IC ENGINE			IC ENGINE												
2002	SACRAMENTO -	5050	040	DEL DACO DO	CA CRANACTO	22020	A CTIVE	SPARK -		44.0 2016 increasion	STANDBY - PROPANE	424.6	0.47	0.00	0.0000	0.453		Navi CO mfa					
2683	DTECH	5969	918	DEL PASO RD	SACRAMENTO	23028	ACTIVE	STANDBY	Propane	14.8 2016 inspection	PROPANE	131.6	0.17	0.02	0.0002	0.152	0	Nox&CO mfg	1	U	U	1	+
	COUNTY OF							IC ENGINE			IC ENGINE												
	SACRAMENTO -			TWITCHELL ISLAND				SPARK -			STANDBY/												
2683	DTECH	6338		RD	ISLETON	24113	ACTIVE	STANDBY	Propane	15.52 2016 inspection	P	131.6	1	1	0.002	0.152	2.75	District BACT	5	5	0	1	
								IC ENGINE SPARK -			IC ENGINE STANDBY -												
1575	CAPITAL RADIO	4153	7020	SORENTO RD	ELVERTA	17710	ACTIVE	STANDBY	Propane	0.11 2017 inspection	PROPANE	132	1.2	1.1	0.002	0.152	168.7	Mfg EF	0	0	0	0	
1323	ON THE IDEA	4133	7320	SOMETITO NO	LEVENIA	1/210	ACTIVE	517111001	тторапе	0.11 Zoti inspection	THOTTHE	132	1.2	1.1	0.002	0.132	100.7	iviig Ei	,	-	-	-	_
								IC ENGINE			IC ENGINE												
								SPARK -			STANDBY -												
277	STATE OF CALIF CHP	367	6	MASSIE COURT	SACRAMENTO	17567	ACTIVE	STANDBY	Propane	26.2 2016/2017 inspection	PROPANE	137	1.3	1.3	0.002	0.152	24.1	AP42	10	10	0	1	_
	COCULANIES FIRE							IC ENGINE SPARK -			IC ENGINE												
1012	COSUMNES FIRE DEPT	4850	10573	E. STOCKTON BLVD	ELK GBOVE	22044	ACTIVE	STANDBY	Propane	16.5 2017/2016 Inspection	IC ENGINE STANDBY	153	0.14	0.02	0.002	0.07	0	Mfg EF	1	0	0	0	
	STATE OF CALIF	4630	103/3	E. STOCKTON BLVD	ELK GROVE	22044	ACTIVE	STANDET	Fropalie	10.3 2017/2010 Hispection	STANDBI	133	0.14	0.02	0.002	0.07	- 0	IVIIG EF	1	- 0	- 0	- 0	+
	FISH & GAME-							IC ENGINE			IC ENGINE												
	AMERICAN RIVER							SPARK -		average usage of standby	ic STANDBY/												
	HATCHERY	1871	2101	NIMBUS RD	RANCHO CORDOVA	24909	ACTIVE	STANDBY	Propane	14.3 engines	P	153.2	0.29	0.42	0.00203	0.035	4	District BACT	1	2	0	0	\perp
	STATE OF CA DEPT							IC ENGINE															
	PARK & REC (TWIN CITIES)	1100	12200	WHITE ROCK RD	RANCHO CORDOVA	25116	ACTIVE	SPARK - STANDBY	Propane	average usage of standby 14.3 engines	STANDBY	156	1.51	0.3	0.0246	0.1815	3.3	District BACT	_		0		
1024	CITIES	1109	13300	WHITE ROCK RD	KANCHO CORDOVA	25110	ACTIVE	STANDET	Propane	14.5 eligilles	STANDBI	150	1.51	0.3	0.0246	0.1815	3.3	DISTRICT BACT		1	0	1	+
								IC ENGINE			IC ENGINE												
				EAST STOCKTON				SPARK -			STANDBY -												
616	SMUD	3827	10577	BLVD	SACRAMENTO	17354	ACTIVE	STANDBY	Propane	7.1 2013 inspection	PROPANE	170	0.14	0.52	0.002	0.152	2.1	AP42, Tble 3.4	-1 0	1	0	0	\perp
	STATE OF CA DEPT							IC ENGINE															
1024	PARK & REC (TWIN CITIES)	1100	13300	WHITE ROCK RD	RANCHO CORDOVA	22002	ACTIVE	SPARK - STANDBY	LDG	16 2015 Inspection	IC ENGINE STANDBY	170	,	5.2	0.0023	0.076	33.9	Nox&CO mfg	6	31	0	0	
	STATE OF CALIF	1109	13300	***TITE NOCK KD	MANCHO CORDOVA	23083	ACTIVE	STANUBT	LFG	10 2013 hispection	SIMNUBT	1/0	1	5.2	0.0023	0.076	33.9	INUXACU INTE	- 6	51	U	U	+
	FISH & GAME-							IC ENGINE															
	AMERICAN RIVER							SPARK -			IC ENGINE												
279	HATCHERY	1871	2101	NIMBUS RD	RANCHO CORDOVA	23590	ACTIVE	STANDBY	Propane	17.3 2016 inspection	STANDBY	230	1	1	0.002	0.04	2.75	District BACT	9	9	0	0	\perp
	PARAMOUNT							IC ENGINE SPARK -			IC ENGINE STANDBY -							AP42, Tble 3.2	2 2 2				
1368	PETROLEUM CORP	3042	10090	WATERMAN RD	ELK GROVE	1373/	ACTIVE	STANDBY	Propage	71 2017 ps survey	PROPANE	460	0.72	18	0.0022	0.152	1.6	4 AP42, 1DIE 3.2	-2, 3.2-	1296	0	11	
1500	OLEDIVI CORF	5042	_0000	AN NO		13234		31001	Topane	71 LOLY PUBLISHED	. NOT AIRE	-100	5.72	10	5.5022	J.1J2	1.0	-	32	1230		- 11	+
	SACRAMENTO							IC ENGINE			IC ENGINE												
	SUBURBAN WATER							SPARK -			STANDBY -							AP42 with					
	DISTRICT	3891	5771	POKER LANE	ANTELOPE	16650		STANDBY	Propane	6.9 2017 inspection	PROPANE	739	0.0003	0.0036	0.002	0.152	0.0034	adjustment	0	0	0	2	\perp
2239							Propar	ne & Gasoline	42														
239							11000	ic a casoniic										B 6	,				
39							тори	ic a dasoniic										Prime Gasolin Backup Gasoli		1170 8	63 0	77 1	

ATTACHMENT B:

CEIDARS Reconciliation Report for EIC 050-040-0012-0000 (Stationary Non-Agricultural Engines – Other Fuel)